Yahoo Group Archive: TS-520_820_530_830 (2009)

Yahoo Group summary: KENWOOD TS-520_820_530_830

These Yahoo Groups messages were archived in WARC format by ArchiveTeam in 2017. This PDF was generated by Digital Library of Amateur Radio & Communications from the WARC files in 2026.

Date span: 2009-01-01 through 2009-12-31

Source WARC: ts-520_820_530_830.d0kBnMS.warc.gz

Source item: https://archive.org/details/yahoo-groups-2017-04-17T04-04-28Z-8e1d1d

Messages included in this PDF: 4682

Message records with no body available in the source archive: 1

Messages omitted as spam from this PDF: 2

Yahoo replaced the domain portions of email addresses with @... in the archived messages. Characters lost in Yahoo's archived text appear as ?.

Messages are presented in ascending Yahoo message-ID order. Gaps indicate records absent from the source WARC or messages omitted from this PDF as spam.

19534. Re: Tempo One

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-01 00:22:53 UTC
From: w5rkl
Topic: 19530 Message: 19534

Yes, it is a Yaesu FT-200.

The Tempo One was manufactured by Yaesu as an FT-200, marketed in the U.S. as a Henry Radio Tempo One, and in Europe as a Sommerkamp FT-250.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Adrian Ellison <ellisona@...> wrote:
>
> Hello Jennifer,
>
> I think that's really a Yaesu FT-200, I've had one in the shack before but
> never owned one, and it worked okay, not fantastic by modern standards but
> certainly usable, birdies shouldn't be a problem, perhaps the calibrator is
> on? Just a thought.
>
> Any radio of this vintage is likely to need a bit of TLC, it all depends on
> how badly you want it and how much effort you're prepared to expend.
>
> Good luck with it anyway,
>
> Adrian / ZS1TTZ
>
>
> On Thursday 01 January 2009 01:21:03 Jennifer wrote:
> > I ask this question once before, can anyone help me with some of the
> > problems with my Tempo One. I have a ham ticket, and getting no
> > help. Can anyone give me some ideas?
> >
> > I need to know something, does the Tempo One have problems like
> > birdies and other things like lack of ears "Hearing signals" mine was
> > given to me. It's a piece of junk! Can't hear, and a lot of
> > birdies! Any ideas of what is the cause of this? Can tubes do this
> > or misalignments? Need some ideas!
> >
> > Jennifer
> > WA4CVV
>

19535. Re: [TS-520_820_530_830] Tempo One

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-01 00:25:47 UTC
From: Erwin Haynes
Topic: 19530 Message: 19535

Hi Jennifer:

I have recently acquired a batch (5) of Tempo Ones (FT200) - all in various degrees of tune/performance. To keep it short - the one I am making my "prime" unit is quite nice, and I have no particular issues with birdies at all - yes, it is not frequency stable for at least 30 minutes after firing it up, and it will never be even a very good transceiver -- but I have fun just playing around!

If I can help anymore, please contact off-line. I cannot say I am an expert by any means, in fact I am using theses radios as a way of "getting into the guts", e.g. taking apart, cleaning, testing and implementing mods I have found. That way if I mess up -- at least I did so with a cost-effective transceiver!

Regards & 73!
 Erwin
KI4TBD
Canton, GA, USA
"Join the DARC side! Deutscher Amateur Radio Club!"

_____
From: Jennifer <JPATERSON4@TAMPABAY.RR.COM>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, December 31, 2008 6:21:03 PM
Subject: [TS-520_820_530_830] Tempo One

I ask this question once before, can anyone help me with some of the
problems with my Tempo One. I have a ham ticket, and getting no
help. Can anyone give me some ideas?

I need to know something, does the Tempo One have problems like
birdies and other things like lack of ears "Hearing signals" mine was
given to me. It's a piece of junk! Can't hear, and a lot of
birdies! Any ideas of what is the cause of this? Can tubes do this
or misalignments? Need some ideas!

Jennifer
WA4CVV

[Non-text portions of this message have been removed]

19537. Tempo One

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-01 01:56:07 UTC
From: Jennifer
Topic: 19530 Message: 19537

Thanks all, found a link. sent to me. The Cal nobe is off, and the
Birdies are all over. Will try to get it fix. Wish me luck

73's
WA4CVV
Jennifer
Will still read on!

:-)

19538. Re: [TS-520_820_530_830] new member,

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-01 02:19:18 UTC
From: Adam Wade
Topic: 19523 Message: 19538

On Wednesday, December 31, 2008 3:20 PM [Zulu -7],
John Becker <jab@...> wrote:

> I for one never did understand how echolink could be called
> radio. Granted, I could call another ham on the cell phone
> but at least that uses RF.

Not to start a flame war or anything, and while I almost completely agree
that radio != internet, I don't have any 6m capability in my area, but I
do have a local 2m repeater set up as an IRLP node, and likewise have a
6m
repeater locally set up the same way. I have been known to cross-band by
linking those two nodes, and I'm still talking locally via radio to other
hams via radio... I'm just using a little scrap of the internet as a
transverter. ;)

But yeah, I agree with you that radio means radio.

In this particular case, however, it was an invitation to an online group
helping people get started in ham radio. I think that's a great thing,
very
encouraging for our service, and who says you can only learn about radio ON

the radio? Heck, you're posting to an internet group about radio issues
right now... Does that make you any less of a "true ham" than someone who
refuses to get online at all? Personally, I think Amateur radio is about
communication and about learning, and we can certainlydo a lot of both
online! In fact, that's a lot of the reason I think so many hams ARE
online -- the same reasons, in many cases, that they are hams.

My $0.02, and please take this soapbox away from me. ;)

! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
! "I write down everything I want to remember. That way, instead !
! of spending a lot of time trying to remember what it is I wrote !
! down, I spend z time looking for the paper I wrote it down on." !
! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !

19539. PC-1 Phone Patch and PSK-31

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-01 22:45:56 UTC
From: Tate Antrim
Topic: 19539 Message: 19539

I've been reading about hooking up the PC-1 phone patch to do PSK31 over a hybrid, but I've not found any connection schematics.can someone here point me in the right direction?

KD8HJA

[Non-text portions of this message have been removed]

19540. Re: [TS-520_820_530_830] PC-1 Phone Patch and PSK-31

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-01 23:29:36 UTC
From: ve3wej gmail
Topic: 19539 Message: 19540

are you looking for the schematic for the pc1, i can help you with that, as far as using it for psk, no help there, you may have to engineer it yourself....

VE3WEJ
Dave Garber

10-X # 23465
echolink # 52852
irlp node 2202
email ve3wej@...
----- Original Message -----
From: Tate Antrim
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, January 01, 2009 5:45 PM
Subject: [TS-520_820_530_830] PC-1 Phone Patch and PSK-31

I've been reading about hooking up the PC-1 phone patch to do PSK31 over a hybrid, but I've not found any connection schematics.can someone here point me in the right direction?

KD8HJA

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

19541. RE: [TS-520_820_530_830] PC-1 Phone Patch and PSK-31

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-01 23:40:37 UTC
From: Tate Antrim
Topic: 19539 Message: 19541

Thanks!

I have the schematic. By looking at that I think I've somewhat figured out how to connect it for receive. I've been watching a QSO on 3582.3 concerning the year of astronomy with digipan - though propagation at my QTH appears to be changing. I've not figured out how to transmit though.

Anyone else successfully interfaced the PC-1 with a PC and using it for PSK31?

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of ve3wej gmail
Sent: Thursday, January 01, 2009 6:30 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] PC-1 Phone Patch and PSK-31

are you looking for the schematic for the pc1, i can help you with that, as far as using it for psk, no help there, you may have to engineer it yourself....

VE3WEJ
Dave Garber

10-X # 23465
echolink # 52852
irlp node 2202
email ve3wej@... <mailto:ve3wej%40rac.ca>
----- Original Message -----
From: Tate Antrim
To: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
Sent: Thursday, January 01, 2009 5:45 PM
Subject: [TS-520_820_530_830] PC-1 Phone Patch and PSK-31

I've been reading about hooking up the PC-1 phone patch to do PSK31 over a hybrid, but I've not found any connection schematics.can someone here point me in the right direction?

KD8HJA

[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

19542. RE: [TS-520_820_530_830] Tempo One

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-02 02:20:47 UTC
From: brad
Topic: 19530 Message: 19542

Jennifer, The problem is called lack of receiver sensitivity. What are you using for an antenna? Has this radio been modified? Yes, tubes and lousy workmanship can cause your issue. Do you have any test gear, repair manual.. ? You will need some basic test gear to even get started. Most of what you said here is "CB" lingo and I highly suspect this radio, as the tempo one is a favorite to modify for out of band use. See if you can find a history on this radio. That may tell you how bad or how good any mods were done. Brad KB2CHY

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jennifer
Sent: Wednesday, December 31, 2008 18:21
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Tempo One

I ask this question once before, can anyone help me with some of the problems with my Tempo One. I have a ham ticket, and getting no help. Can anyone give me some ideas?

I need to know something, does the Tempo One have problems like birdies and other things like lack of ears "Hearing signals" mine was given to me. It's a piece of junk! Can't hear, and a lot of birdies! Any ideas of what is the cause of this? Can tubes do this or misalignments? Need some ideas!

Jennifer
WA4CVV

[Non-text portions of this message have been removed]

19543. Spectrum Analyzer

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-02 05:30:50 UTC
From: Gordon
Topic: 19543 Message: 19543

I just picked up an HP Spectrum Analyzer.
Nice Unit, but need to figure out how to use it.
Anyone have helpful tips out there?
It is an HP-141 unit with the 8553B RF Unit and the 85552B IF unit. It
was Calibrated just before being shipped to me the day before Christmas.
I have the Manuals, now to Learn.. hi hi..
This is my first Spectrum Analyzer, so looking for advice and hints.
I'm good with the Scope, Frequency generators, Frequency
counters,meters and that sort of stuff.
73,
Gordon

19544. Re: [TS-520_820_530_830] Spectrum Analyzer

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-02 05:51:58 UTC
From: ve3wej gmail
Topic: 19543 Message: 19544

>I have the Manuals, now to Learn.. hi hi..
>This is my first Spectrum Analyzer, so looking for advice and hints.

make sure you read them, ask a local ham for help, if any have used one
before, then read the manual some more

19545. Intermittant RF output and alc indication

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-02 14:26:00 UTC
From: alw8oc
Topic: 19545 Message: 19545

Hi folks, here's another problem that I could use some help with. I have a 7 million series 830S with relatively new driver and finals installed. Periodically, when I turn the rig on, I am unable to get get more than a few watts out in either ssb or cw modes. This occurs on all bands, an doesn't seem to be related to a bandswitch issue. I've also noticed that when the processor is engaged, I don't get an alc reading on the meter. I can rectify the output issue by moving the sg switch back and forth, once or twice, but that does not restore the missing alc indication on the meter. The rig's receiver works perfectly and I get good reports on ssb and cw transmissions. I've cleaned all of the pots, tapped or wiggled all of the plugs and connecting cables on the circuit boards, etc. to no avail. Only moving the sg switch brings transmit back to life. Oh, also, I've replaced the sg switch..... I wonder if anyone else has ever experienced this problem? Could it be a dirty or sticking relay? Any assistance would be appreciated. Thanks as always. Al - W8OC.

19546. Re: Intermittant RF output and alc indication

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-02 15:48:26 UTC
From: w5rkl
Topic: 19545 Message: 19546

Al,

"Intermittent" ALC? Are you saying that your 830 does not ALWAYS show an ALC meter reading while you are operating normal sideband when speaking into the microphone but on occasions it does? If this is true than there's nothing wrong with your 830.

First, there's no reason you should ALWAYS see an ALC meter indication during normal sideband operation.

For some reason there seems to be a belief that if the ALC meter does not ALWAYS show a meter reading there is something wrong with the transmitter. This is simply NOT TRUE! To understand why this is, one needs to understand what ALC is, how it is creates, and what it is used for.

ALC is created when "grid current" flows in the final amplifier tubes. The Kenwood hybrid final amplifiers, 520, 530, 820, and 830, along with many other sideband transceivers, operate in Class AB1. A Class AB1 amplifier does not normally have grid current. This means a Class AB1 amplifier grids are always "Negative". However, when a Class AB1 amplifier grid becomes "positive" due to excessive drive, a current begins to flow between the amplifier tube's Cathode and Grid. When grid current flows in a Class AB1 amplifier, the amplifier is no longer operating in a "linear" state, resulting in "distortion" in the amplifier's output signal.

The final amplifier's in many class AB1 RF amplifiers have an ALC circuit. When grid current flows due to excessive drive to the final amplifier grids, the ALC circuit rectifies the voltage created by the grid current. This voltage is fed back to the "IF UNIT" (IF amplifier) to "reduce" the IF UNIT's (IF amplifier) gain. "IF" the ALC voltage is the same or less than the normal IF UNIT's operating voltage then the IF UNIT's gain remains "Unchanged". However, "IF" the ALC voltage is greater than the IF UNIT's normal operating voltage then the gain of the IF UNIT (IF amplifier) is "reduced" which leads to reduction in the final amplifier's output. The ALC voltage is used to reduce destortion due to excessive drive to the final amplifier causing the final tube grids to go "positive" when they should be "negative" under normal operation which results in the final amplifier to return to a "linear state".

So, if you do not ALWAYS see an ALC meter indication during normal sideband operation but on occasion you do, there's NOTHING wrong with transceiver. Unfortunately changing the SG switch was a waste of time and money.

The SG switch does one thing. It controls the "polarity of the final tube's screen voltage". In the "OFF" position, the final tube screen voltage is "Positive", and is the "normal" position of the SG switch. Placing the SG switch in the "OFF" position places a "Negative" voltage on the final tube screens, causing the final tubes to be "cut off". The "OFF" position is ONLY used when neutralizing the final. It has nothing to do with the ALC voltage except in the "OFF" position the final tube simply are "CUT OFF" and the final tubes do not conduct resulting in zero IP current and zero RF output.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "alw8oc" <alw8oc@...> wrote:
>
> Hi folks, here's another problem that I could use some help with. I
> have a 7 million series 830S with relatively new driver and finals
> installed. Periodically, when I turn the rig on, I am unable to get
> get more than a few watts out in either ssb or cw modes. This occurs
> on all bands, an doesn't seem to be related to a bandswitch issue.
> I've also noticed that when the processor is engaged, I don't get an
> alc reading on the meter. I can rectify the output issue by moving the
> sg switch back and forth, once or twice, but that does not restore the
> missing alc indication on the meter. The rig's receiver works
> perfectly and I get good reports on ssb and cw transmissions. I've
> cleaned all of the pots, tapped or wiggled all of the plugs and
> connecting cables on the circuit boards, etc. to no avail. Only moving
> the sg switch brings transmit back to life. Oh, also, I've replaced
> the sg switch..... I wonder if anyone else has ever experienced
> this problem? Could it be a dirty or sticking relay? Any assistance
> would be appreciated. Thanks as always. Al - W8OC.
>

19547. Re: Intermittant RF output and alc indication

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-02 16:44:39 UTC
From: w5rkl
Topic: 19545 Message: 19547

Correction:

The SG switch in the "ON" position provides a "positive" screen
voltage to the final tubes. The SG switch in the "OFF" position
provies a "Negative" screen voltage to the final tubes.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Al,
>
> "Intermittent" ALC? Are you saying that your 830 does not ALWAYS show
> an ALC meter reading while you are operating normal sideband when
> speaking into the microphone but on occasions it does? If this is true
> than there's nothing wrong with your 830.
>
> First, there's no reason you should ALWAYS see an ALC meter indication
> during normal sideband operation.
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> For some reason there seems to be a belief that if the ALC meter does
> not ALWAYS show a meter reading there is something wrong with the
> transmitter. This is simply NOT TRUE! To understand why this is, one
> needs to understand what ALC is, how it is creates, and what it is
> used for.
>
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> with many other sideband transceivers, operate in Class AB1. A Class
> AB1 amplifier does not normally have grid current. This means a Class
> AB1 amplifier grids are always "Negative". However, when a Class AB1
> amplifier grid becomes "positive" due to excessive drive, a current
> begins to flow between the amplifier tube's Cathode and Grid. When
> grid current flows in a Class AB1 amplifier, the amplifier is no
> longer operating in a "linear" state, resulting in "distortion" in the
> amplifier's output signal.
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> The final amplifier's in many class AB1 RF amplifiers have an ALC
> circuit. When grid current flows due to excessive drive to the final
> amplifier grids, the ALC circuit rectifies the voltage created by the
> grid current. This voltage is fed back to the "IF UNIT" (IF amplifier)
> to "reduce" the IF UNIT's (IF amplifier) gain. "IF" the ALC voltage is
> the same or less than the normal IF UNIT's operating voltage then the
> IF UNIT's gain remains "Unchanged". However, "IF" the ALC voltage is

> greater than the IF UNIT's normal operating voltage then the gain of
> the IF UNIT (IF amplifier) is "reduced" which leads to reduction in
> the final amplifier's output. The ALC voltage is used to reduce
> destortion due to excessive drive to the final amplifier causing the
> final tube grids to go "positive" when they should be "negative" under
> normal operation which results in the final amplifier to return to a
> "linear state".
>
> So, if you do not ALWAYS see an ALC meter indication during normal
> sideband operation but on occasion you do, there's NOTHING wrong with
> transceiver. Unfortunately changing the SG switch was a waste of time
> and money.
>
> The SG switch does one thing. It controls the "polarity of the final
> tube's screen voltage". In the "OFF" position, the final tube screen
> voltage is "Positive", and is the "normal" position of the SG switch.
> Placing the SG switch in the "OFF" position places a "Negative"
> voltage on the final tube screens, causing the final tubes to be "cut
> off". The "OFF" position is ONLY used when neutralizing the final. It
> has nothing to do with the ALC voltage except in the "OFF" position
> the final tube simply are "CUT OFF" and the final tubes do not conduct
> resulting in zero IP current and zero RF output.
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com, "alw8oc" <alw8oc@> wrote:
> >
> > Hi folks, here's another problem that I could use some help with. I
> > have a 7 million series 830S with relatively new driver and finals
> > installed. Periodically, when I turn the rig on, I am unable to get
> > get more than a few watts out in either ssb or cw modes. This occurs
> > on all bands, an doesn't seem to be related to a bandswitch issue.
> > I've also noticed that when the processor is engaged, I don't get an
> > alc reading on the meter. I can rectify the output issue by
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> > sg switch back and forth, once or twice, but that does not restore
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> > missing alc indication on the meter. The rig's receiver works
> > perfectly and I get good reports on ssb and cw transmissions. I've
> > cleaned all of the pots, tapped or wiggled all of the plugs and
> > connecting cables on the circuit boards, etc. to no avail. Only
moving
> > the sg switch brings transmit back to life. Oh, also, I've replaced
> > the sg switch..... I wonder if anyone else has ever experienced
> > this problem? Could it be a dirty or sticking relay? Any assistance
> > would be appreciated. Thanks as always. Al - W8OC.
> >
>

19548. Re: [TS-520_820_530_830] Spectrum Analyzer

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-02 10:34:58 UTC
From: richard
Topic: 19543 Message: 19548

On Fri, 02 Jan 2009 05:30:50 -0000
"Gordon" <n6wk@...> wrote:

> I just picked up an HP Spectrum Analyzer.
> Nice Unit, but need to figure out how to use it.
> Anyone have helpful tips out there?
> It is an HP-141 unit with the 8553B RF Unit and the 85552B IF unit. It
> was Calibrated just before being shipped to me the day before
> Christmas. I have the Manuals, now to Learn.. hi hi..
> This is my first Spectrum Analyzer, so looking for advice and hints.
> I'm good with the Scope, Frequency generators, Frequency
> counters,meters and that sort of stuff.
> 73,
> Gordon
>
>

Hi the main thing to remember with any SA is not to put power into
them. Never, ever put more than +10dBm into it.
Any more power than that you must use an external attenuator.
If I remember correctly the RF attenuator on that RF module is
repairable should manage to overload it.

Also a good starting point is the set the ref level on the IF unit to
0 dBm and the RF attenuator to 20 dB.

Apart from that the HP141 is pretty indestructible. but apply common
sense with the intensity on the tube (brightness), that way you
shouldn't get anymore burn marks, than there are now.

Have fun

--
Best wishes

Richard Bown

###
Registered Linux User 36561
OS: Ubuntu 8.10, Intrepid, on AMD Dual Athlon 64 +4400: 8 GB RAM DDR2
Ham Call: G8JVM , QRA IO82SP, Interests Microwave
###

19549. Re: [TS-520_820_530_830] Spectrum Analyzer

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-02 18:16:09 UTC
From: N6WK
Topic: 19543 Message: 19549

Thanks Richard,
I am reading the Manuals before I do anything.
I did turn it on to be sure it powered up after unpacking it and read
the basic setup instructions.
I will follow your advice.
73,
Gordon
N6WK

richard wrote:
>
> On Fri, 02 Jan 2009 05:30:50 -0000
> "Gordon" <n6wk@... <mailto:n6wk%40n6wk.com>> wrote:
>
> > I just picked up an HP Spectrum Analyzer.
> > Nice Unit, but need to figure out how to use it.
> > Anyone have helpful tips out there?
> > It is an HP-141 unit with the 8553B RF Unit and the 85552B IF unit. It
> > was Calibrated just before being shipped to me the day before
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> > counters,meters and that sort of stuff.
> > 73,
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> >
> >
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> them. Never, ever put more than +10dBm into it.
> Any more power than that you must use an external attenuator.
> If I remember correctly the RF attenuator on that RF module is
> repairable should manage to overload it.
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> Also a good starting point is the set the ref level on the IF unit to
> 0 dBm and the RF attenuator to 20 dB.
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> Apart from that the HP141 is pretty indestructible. but apply common
> sense with the intensity on the tube (brightness), that way you
> shouldn't get anymore burn marks, than there are now.
>
> Have fun
>
> --
> Best wishes

>
> Richard Bown
>
> ##
> Registered Linux User 36561
> OS: Ubuntu 8.10, Intrepid, on AMD Dual Athlon 64 +4400: 8 GB RAM DDR2
> Ham Call: G8JVM , QRA IO82SP, Interests Microwave
> ##
>
>

19550. Re: Intermittant RF output and alc indication

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-02 20:00:32 UTC
From: alw8oc
Topic: 19545 Message: 19550

Thanks for the extensiv explanation of the alc function Mike. Very helpful. I never had anyone explain that function so completely, and understandably. OK, alc readings, are lack of readings on the meter are not a problem. How about my other issue. Very low output rectified by moving the sg switch back and forth. By the way, that's why I replaced the switch (no expense, as I had another one in my junk box). Any idea why that would bring full output back to life and what might be causing that issue?

Thanks again,

Al
--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Correction:
>
> The SG switch in the "ON" position provides a "positive" screen
> voltage to the final tubes. The SG switch in the "OFF" position
> provies a "Negative" screen voltage to the final tubes.
>
> 73
> Mike
> W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Al,
> >
> > "Intermittent" ALC? Are you saying that your 830 does not ALWAYS
show
> > an ALC meter reading while you are operating normal sideband when
> > speaking into the microphone but on occasions it does? If this is
true
> > than there's nothing wrong with your 830.
> >
> > First, there's no reason you should ALWAYS see an ALC meter
indication
> > during normal sideband operation.
> >
> > For some reason there seems to be a belief that if the ALC meter
does
> > not ALWAYS show a meter reading there is something wrong with the
> > transmitter. This is simply NOT TRUE! To understand why this is,
one

> > needs to understand what ALC is, how it is creates, and what it is
> > used for.
> >
> > ALC is created when "grid current" flows in the final amplifier
tubes.
> > The Kenwood hybrid final amplifiers, 520, 530, 820, and 830, along
> > with many other sideband transceivers, operate in Class AB1. A
Class
> > AB1 amplifier does not normally have grid current. This means a
Class
> > AB1 amplifier grids are always "Negative". However, when a Class
AB1
> > amplifier grid becomes "positive" due to excessive drive, a
current
> > begins to flow between the amplifier tube's Cathode and Grid. When
> > grid current flows in a Class AB1 amplifier, the amplifier is no
> > longer operating in a "linear" state, resulting in "distortion"
in the
> > amplifier's output signal.
> >
> > The final amplifier's in many class AB1 RF amplifiers have an ALC
> > circuit. When grid current flows due to excessive drive to the
final
> > amplifier grids, the ALC circuit rectifies the voltage created by
the
> > grid current. This voltage is fed back to the "IF UNIT" (IF
amplifier)
> > to "reduce" the IF UNIT's (IF amplifier) gain. "IF" the ALC
voltage is
> > the same or less than the normal IF UNIT's operating voltage then
the
> > IF UNIT's gain remains "Unchanged". However, "IF" the ALC voltage
is
> > greater than the IF UNIT's normal operating voltage then the gain
of
> > the IF UNIT (IF amplifier) is "reduced" which leads to reduction
in
> > the final amplifier's output. The ALC voltage is used to reduce
> > destortion due to excessive drive to the final amplifier causing
the
> > final tube grids to go "positive" when they should be "negative"
under
> > normal operation which results in the final amplifier to return
to a
> > "linear state".
> >
> > So, if you do not ALWAYS see an ALC meter indication during normal
> > sideband operation but on occasion you do, there's NOTHING wrong
with
> > transceiver. Unfortunately changing the SG switch was a waste of

time
> > and money.
> >
> > The SG switch does one thing. It controls the "polarity of the
final
> > tube's screen voltage". In the "OFF" position, the final tube
screen
> > voltage is "Positive", and is the "normal" position of the SG
switch.
> > Placing the SG switch in the "OFF" position places a "Negative"
> > voltage on the final tube screens, causing the final tubes to
be "cut
> > off". The "OFF" position is ONLY used when neutralizing the
final. It
> > has nothing to do with the ALC voltage except in the "OFF"
position
> > the final tube simply are "CUT OFF" and the final tubes do not
conduct
> > resulting in zero IP current and zero RF output.
> >
> > 73
> > Mike
> > W5RKL
> >
> > --- In TS-520_820_530_830@...m, "alw8oc" <alw8oc@>
wrote:
> > >
> > > Hi folks, here's another problem that I could use some help
with. I
> > > have a 7 million series 830S with relatively new driver and
finals
> > > installed. Periodically, when I turn the rig on, I am unable
to get
> > > get more than a few watts out in either ssb or cw modes. This
occurs
> > > on all bands, an doesn't seem to be related to a bandswitch
issue.
> > > I've also noticed that when the processor is engaged, I don't
get an
> > > alc reading on the meter. I can rectify the output issue by
> moving the
> > > sg switch back and forth, once or twice, but that does not
restore
> the
> > > missing alc indication on the meter. The rig's receiver works
> > > perfectly and I get good reports on ssb and cw transmissions.
I've
> > > cleaned all of the pots, tapped or wiggled all of the plugs and
> > > connecting cables on the circuit boards, etc. to no avail. Only
> moving

> > > the sg switch brings transmit back to life. Oh, also, I've
replaced
> > > the sg switch..... I wonder if anyone else has ever
experienced
> > > this problem? Could it be a dirty or sticking relay? Any
assistance
> > > would be appreciated. Thanks as always. Al - W8OC.
> > >
> >
>

19551. Re: Intermittant RF output and alc indication

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-02 22:24:20 UTC
From: w5rkl
Topic: 19545 Message: 19551

Al,

More than likely the SG switch was very dirty and/or corroded.

If moving the SG switch ON and OFF a number of times caused the output to increase then most likely the switch was very dirty/corroded. Dirty and/or corrosion creates a resistance and, at times, can create an "open" circuit, that would affect the final tube's screen voltage. If the resistance in the switch due to dirt and/or corrosion was high enough the final tube voltage would be lowered. This would result in a lower output. The dirty switch was acting like a resistor in series with the final tube's screen supply. I would bet if you had measured the final tube's screen voltage before and after replacing the switch, the voltage would have not been the same, it would have been lower with the old dirty/corroded switch in place.

Have fun and enjoy. Oh, and by the way. If you connect a linear amplifier to your 830, make the ALC connection between the 830 and the amplifier then follow the amplifier's instructions on setting the ALC voltage level fed back to the 830, if the amplifier has one which most do these days. You'll be glad you did.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "alw8oc" <alw8oc@...> wrote:
>
>
> Thanks for the extensiv explanation of the alc function Mike. Very
> helpful. I never had anyone explain that function so completely, and
> understandably. OK, alc readings, are lack of readings on the meter
> are not a problem. How about my other issue. Very low output
> rectified by moving the sg switch back and forth. By the way, that's
> why I replaced the switch (no expense, as I had another one in my
> junk box). Any idea why that would bring full output back to life
> and what might be causing that issue?
>
> Thanks again,
>
> Al
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Correction:
> >
> > The SG switch in the "ON" position provides a "positive" screen

> > voltage to the final tubes. The SG switch in the "OFF" position
> > provies a "Negative" screen voltage to the final tubes.
> >
> > 73
> > Mike
> > W5RKL
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > >
> > > Al,
> > >
> > > "Intermittent" ALC? Are you saying that your 830 does not ALWAYS
> show
> > > an ALC meter reading while you are operating normal sideband when
> > > speaking into the microphone but on occasions it does? If this is
> true
> > > than there's nothing wrong with your 830.
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> > > First, there's no reason you should ALWAYS see an ALC meter
> indication
> > > during normal sideband operation.
> > >
> > > For some reason there seems to be a belief that if the ALC meter
> does
> > > not ALWAYS show a meter reading there is something wrong with the
> > > transmitter. This is simply NOT TRUE! To understand why this is,
> one
> > > needs to understand what ALC is, how it is creates, and what it is
> > > used for.
> > >
> > > ALC is created when "grid current" flows in the final amplifier
> tubes.
> > > The Kenwood hybrid final amplifiers, 520, 530, 820, and 830, along
> > > with many other sideband transceivers, operate in Class AB1. A
> Class
> > > AB1 amplifier does not normally have grid current. This means a
> Class
> > > AB1 amplifier grids are always "Negative". However, when a Class
> AB1
> > > amplifier grid becomes "positive" due to excessive drive, a
> current
> > > begins to flow between the amplifier tube's Cathode and Grid. When
> > > grid current flows in a Class AB1 amplifier, the amplifier is no
> > > longer operating in a "linear" state, resulting in "distortion"
> in the
> > > amplifier's output signal.
> > >
> > > The final amplifier's in many class AB1 RF amplifiers have an ALC
> > > circuit. When grid current flows due to excessive drive to the

> final
> > > amplifier grids, the ALC circuit rectifies the voltage created by
> the
> > > grid current. This voltage is fed back to the "IF UNIT" (IF
> amplifier)
> > > to "reduce" the IF UNIT's (IF amplifier) gain. "IF" the ALC
> voltage is
> > > the same or less than the normal IF UNIT's operating voltage then
> the
> > > IF UNIT's gain remains "Unchanged". However, "IF" the ALC voltage
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> > > greater than the IF UNIT's normal operating voltage then the gain
> of
> > > the IF UNIT (IF amplifier) is "reduced" which leads to reduction
> in
> > > the final amplifier's output. The ALC voltage is used to reduce
> > > destortion due to excessive drive to the final amplifier causing
> the
> > > final tube grids to go "positive" when they should be "negative"
> under
> > > normal operation which results in the final amplifier to return
> to a
> > > "linear state".
> > >
> > > So, if you do not ALWAYS see an ALC meter indication during normal
> > > sideband operation but on occasion you do, there's NOTHING wrong
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> > > and money.
> > >
> > > The SG switch does one thing. It controls the "polarity of the
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> > > tube's screen voltage". In the "OFF" position, the final tube
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> > > voltage is "Positive", and is the "normal" position of the SG
> switch.
> > > Placing the SG switch in the "OFF" position places a "Negative"
> > > voltage on the final tube screens, causing the final tubes to
> be "cut
> > > off". The "OFF" position is ONLY used when neutralizing the
> final. It
> > > has nothing to do with the ALC voltage except in the "OFF"
> position
> > > the final tube simply are "CUT OFF" and the final tubes do not
> conduct
> > > resulting in zero IP current and zero RF output.
> > >
> > > 73
> > > Mike

> > > W5RKL
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "alw8oc" <alw8oc@>
> wrote:
> > > >
> > > > Hi folks, here's another problem that I could use some help
> with. I
> > > > have a 7 million series 830S with relatively new driver and
> finals
> > > > installed. Periodically, when I turn the rig on, I am unable
> to get
> > > > get more than a few watts out in either ssb or cw modes. This
> occurs
> > > > on all bands, an doesn't seem to be related to a bandswitch
> issue.
> > > > I've also noticed that when the processor is engaged, I don't
> get an
> > > > alc reading on the meter. I can rectify the output issue by
> > moving the
> > > > sg switch back and forth, once or twice, but that does not
> restore
> > the
> > > > missing alc indication on the meter. The rig's receiver works
> > > > perfectly and I get good reports on ssb and cw transmissions.
> I've
> > > > cleaned all of the pots, tapped or wiggled all of the plugs and
> > > > connecting cables on the circuit boards, etc. to no avail. Only
> > moving
> > > > the sg switch brings transmit back to life. Oh, also, I've
> replaced
> > > > the sg switch..... I wonder if anyone else has ever
> experienced
> > > > this problem? Could it be a dirty or sticking relay? Any
> assistance
> > > > would be appreciated. Thanks as always. Al - W8OC.
> > > >
> > >
> > >
> >
>

19552. WTB: CW Filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-03 01:14:33 UTC
From: kc8sbv
Topic: 19552 Message: 19552

For my TS-530. Looking for YK-88C, 500hz bandwidth. Please contact me
off list.

Thanks es 73,
Ed KC8SBV

19553. Re: TS-520 VFO Problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-03 12:42:02 UTC
From: Doug
Topic: 18771 Message: 19553

For those who may have the same problem with the freq readout going out or reading wrong, here i what I found: After cleaning everything in the radio I could get at with Deoxit (which cleared up a different minor problem) and still having the same problem, I found the screw that holds and grounds the small board behind the readout was the problem. I rocked it back and forth a few times and the problem went away. It came back so I pulled it out all the way and cleaned the screw, circuit board and the threads where it mounts and it seems to be working fine now. Hopefully it will stay working.

thanks for all the advice.

Doug
KC9AYS

--- In TS-520_820_530_830@yahoogroups.com, "Dave Faria" <dave_faria@...> wrote:
>
> The screwdriver I used was a gun smith's screwdriver. It has a special
> ratchet handle that accepts a Philips bit. The handle only needs abt 1/2in.
> of depth to work.
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Doug
> Sent: Saturday, November 08, 2008 6:11 AM
> To: TS-520_820_530_830@...m
> Subject: [TS-520_820_530_830] Re: TS-520 VFO Problem
>
> I am having a problem with a TS820S vfo with numbers going on and off.
> I was going to try this cleaning idea but the screws are hard to get
> to. It looks like I need an inverted screwdriver to get at them, or
> am I missing something here?
>
> Thanks in advance,
> Doug
> KC9AYS
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Although aging and dried up power supply filter capacitors do present
> > problems within Kenwood hybirds and other radios for that matter, this
> > problem is not related to aging and dried up power supply filter
> > capacitors.
> >

> > Over time dust, dirt, and/or corrosion builds up at the VFO's variable
> > capacitor to frame metal contact point. This also includes the
> > variable capacitor's bearings, the conductive grease dries up and
> > connection is lost or becomes intermittent. If the erratic behavior is
> > due to dust, dirt, and/or corrosion on the shaft to frame metal
> > contact point, the connection becomes unstable resulting in erratic
> > VFO behavior, as seen by instability on digital displays and the
> > "jumpiness" heard in the speaker as the VFO is rotated. This erratic
> > VFO behavior will not only affect receive but also transmit since the
> > VFO is a "common mode" circuit used in both transmit and receive.
> >
> > The cure is to clean the VFO's shaft to frame metal connection point
> > with contact cleaner then rotating the VFO throughout its travel a
> > number of times. This may require a second application of contact
> > cleaner depending on how dirty the connection is. Once this is done,
> > more often than not, the problem goes away. As always, wait the 3 to 5
> > minutes after applying contact cleaner before applying power since
> > contact cleaner is flammable and only takes a small spark to ignite
> > the contact cleaner!!
> >
> > The VFO's in most Kenwood hybrids have a small panel on the right side
> > of the VFO, secured to the VFO housing with two Phillips head screws.
> > Removing this plate allows access to the VFO's shaft to frame contract
> > point. Removal of the VFO, in most cases, is not required. However, if
> > one removes the VFO it is important when reinstalling the VFO to
> > "align" the dial(s) correctly otherwise the dial will not track
> > properly across "any band".
> >
> > If this all sounds a bit too much to do and the thought of doing
> > something wrong that may harm or damage the radio, find someone who is
> > skilled in performing this type of work. It's best to have someone
> > else do it who knows what they are doing than to cause harm or damage
> > to your radio by not knowing how to do it or do it improperly.
> >
> > 73
> > Mike
> > W5RKL
> >
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "sootydave" <sootydave@>
> > wrote:
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "dave_faria2003"
> > > <dave_faria2003@> wrote:
> > > >
> > > > GM list. This is my 1st posting on your list. I am the original
> > > > owner of a TS-520 which I bought back in 1973. I want to put
it bk

> > > > on the air. Yesterday when I turned the radio on the vfo
seems to
> > > > just barely work. It works OK up to abt 300khz on all bands and
> > > > then becomes erratic. I think it might just need to be
cleaned. I
> > > > have cleaned the rotary switches with De-Oxit which helped
some. It
> > > > appears that I need to remove the VFO by dropping off the front
> > > > panel. Removing the front panel looks to be quite a job. So my
> > > > questions are:
> > > >
> > > > 1. Am I moving in the right direction?? Is the problem in the
> > > > VFO??
> > > > 2. Is this a typical problem for a radio that has been on the
> > > shelf
> > > > for 20+ years.
> > > > 3. Is inside the VFO the correct place to look or is this a
> > > voltage
> > > > problem somewhere else??
> > > >
> > > > This radio has never been apart before.
> > > >
> > > > Thanks List for your thoughts.
> > > >
> > > > Dave Faria
> > > > Austin, Tx
> > > >
> > > dave
> > > i would asume that if this radio has been sat on a shelfe for so
long
> > > gathering dust, the problem may not be the vfo, more than likely it
> > > is going to be dry capacitors, it may need to be sent off to the
> > > doctors for a magor overhale.
> > > just a thought.
> > > 73's
> > > dave
> > >
> >
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>

19554. Re: [TS-520_820_530_830] Spectrum Analyzer

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-03 18:36:17 UTC
From: richard
Topic: 19543 Message: 19554

On Fri, 02 Jan 2009 10:16:09 -0800
N6WK <n6wk@...> wrote:

> Thanks Richard,
> I am reading the Manuals before I do anything.
> I did turn it on to be sure it powered up after unpacking it and read
> the basic setup instructions.
> I will follow your advice.
> 73,
> Gordon
> N6WK
>
>

Ok Gordon , put away the manuals
Take a foot length of coax with a BNC plug on each end.
Plug one end into the cal o/p on the IF unit and the other in to the RF I/P
Set the slide switch to 0-110 MHz, tune to 30 MHz and play to your hearts content with the resolution bandwidth , IF bandwidth and sweep times etc.
Sticking your head in a book will not teach you how to use it.
If you down to a hardware shop and buy a hammer you dont need to read the manual to use it.
only the important bits , like don't hit your fingers when driving in a nail.
With a SA its don't put too much power into it.

Experiment with looking at the fundamental and the harmonics, if the signal looks all horrible and bent, play with the sweeptime, and IF bandwidth.

The RF plugin you have can also be used as a general purpose Rx, and before someone says they can't, GCHQ in Cheltenham UK used to use hundreds for just the purpose.

What you should have got is the 8554 RF plugin as you can tweek the yig tuning to cover up to 1300 MHz , covering 23 cms.

Anyone wanting to argue its OT , try using 28-30 MHz as the IF for 23 cms. therefore not OT.

There is nothing you can break by putting its own cal signal into the RF i/p.
If you have a mainframe that is OK be careful not to turn the intensity up too far when in storage mode, it looks horrible if you do, and most 141 mainframes available now either have defunct storage or burnt

tubes, so the damage is probably already down.
If you have a good one your very lucky...

have fun

--
Best wishes

Richard Bown

##
Registered Linux User 36561
OS: Ubuntu 8.10, Intrepid, on AMD Dual Athlon 64 +4400: 8 GB RAM DDR2
Ham Call: G8JVM , QRA IO82SP, Interests Microwave
##

19555. Re: Spectrum Analyzer

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-03 20:50:49 UTC
From: Gordon
Topic: 19543 Message: 19555

Thanks Richard,
I am doing just that. I connected the short jumper last night and
started playing. Lots of fun and you are right, this is the best way
to learn.
To use the RF unit as a general RX, do I just connect my Antenna to
the input and take a look?
Thanks for all the help and tips.
Yes, My mainframe is in GREAT shape and does not appear to have any
burn ion marks. I want to keep it that way too!
From what i read, I must be sure to keep the background Green and not
black.. Correct?
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, richard <richard.bown@...>
wrote:
>
> On Fri, 02 Jan 2009 10:16:09 -0800
> N6WK <n6wk@...> wrote:
>
> > Thanks Richard,
> > I am reading the Manuals before I do anything.
> > I did turn it on to be sure it powered up after unpacking it and read
> > the basic setup instructions.
> > I will follow your advice.
> > 73,
> > Gordon
> > N6WK
> >
> >
>
>
> Ok Gordon , put away the manuals
> Take a foot length of coax with a BNC plug on each end.
> Plug one end into the cal o/p on the IF unit and the other in to the RF
> I/P
> Set the slide switch to 0-110 MHz, tune to 30 MHz and play to your
> hearts content with the resolution bandwidth , IF bandwidth and sweep
> times etc.
> Sticking your head in a book will not teach you how to use it.
> If you down to a hardware shop and buy a hammer you dont need to read
> the manual to use it.
> only the important bits , like don't hit your fingers when driving in a
> nail.
> With a SA its don't put too much power into it.

>
> Experiment with looking at the fundamental and the harmonics, if the
> signal looks all horrible and bent, play with the sweeptime, and IF
> bandwidth.
>
> The RF plugin you have can also be used as a general purpose Rx, and
> before someone says they can't, GCHQ in Cheltenham UK used to use
> hundreds for just the purpose.
>
> What you should have got is the 8554 RF plugin as you can tweek the
> yig tuning to cover up to 1300 MHz , covering 23 cms.
>
>
> Anyone wanting to argue its OT , try using 28-30 MHz as the IF for 23
> cms. therefore not OT.
>
> There is nothing you can break by putting its own cal signal into the
> RF i/p.
> If you have a mainframe that is OK be careful not to turn the intensity
> up too far when in storage mode, it looks horrible if you do, and most
> 141 mainframes available now either have defunct storage or burnt
> tubes, so the damage is probably already down.
> If you have a good one your very lucky...
>
>
> have fun
>
> --
> Best wishes
>
> Richard Bown
>
> ##
> Registered Linux User 36561
> OS: Ubuntu 8.10, Intrepid, on AMD Dual Athlon 64 +4400: 8 GB RAM DDR2
> Ham Call: G8JVM , QRA IO82SP, Interests Microwave
> ##
>

19556. Re: [TS-520_820_530_830] Re: TS-820 S-Meter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-03 22:22:56 UTC
From: Mark Curry
Topic: 19468 Message: 19556

Hi Mike
Just ran the test today heres the results
10m.- very slight peak from zero not readable
15m.- same as above
20m.- S/1.5 peak
40m - S/2
80m - S/2
160m - S/2

From: w5rkl <w5rkl@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, December 29, 2008 2:33:47 AM
Subject: [TS-520_820_530_830] Re: TS-820 S-Meter

Try turning the calibrator ON and tune the calibrator signal in and
adjust the DRIVE control for peak S meter reading. Don't zero beat the
calibrator, tune the VFO and DRIVE control for peak S meter readings.
What are the S meter readings on each band?

73
Mike
W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, "kc2pcr" <KC2PCR@...> wrote:
>
> DITTO.. However my rig is a TS-520...No movement on the S-meter unless
> the signal is one of the local big guns & then its barely S-1 to S-3
> when it should be +30 or buried.
> I do know to keep the RF GAIN wide open otherwise theres no S-meter at
> all.
> My 520 really performs excellent in every other aspect, so it's really
> not much of a problem here either, except it would be nice to be able
> to give folks an honest signal report.
> I only operate my 520 on the 10 meter band connected to an 8 element
> mono-bander up at 70 feet & the super sensitivity in the received
> signals I am hearing, as well as how nicely the antenna system matches
> up on the analyser & the fact that I am using low loss feedlines that
> spec out perfectly with minimal loss also verified with the analyser..I
> know some of the locals should be burying the S-meter...but it barely
> moves?
>
> Thanks & 73
> Doug kc2pcr
>
> --- In TS-520_820_530_ 830@yahoogroups. com, "markcurry65"

> <markcurry65@ > wrote:
> >
> > The S-Meter on my 820 needs a very strong signal to move the needle.
> > The most it ever peaks is 3 to a 5 when it should read 20+. Should I
> > just live with it or is there an easy fix to this problem.
> > The radio seems to work just fine apart from this small promblem.
> >
>

[Non-text portions of this message have been removed]

19557. Re: TS-820 S-Meter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-03 23:17:43 UTC
From: w5rkl
Topic: 19468 Message: 19557

Hello Mark,

Since the receiver appears to be working fine and from the results you
have provided, it appears the S meter is out of calibration.

Do you have the TS-820's service manual? If not, you can download it
free at the following link:

http://bama.edebris.com/manuals/kenwood/ts820s/

The S meter alignment is on page 47 paragraph 2-8 at the top of the page.

If you do not have a signal generator you can use the 820's
Calibrator, although it will not be as accurate, as a signal source
during the adjustments.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Mark Curry
<markcurry65@...> wrote:
>
> Hi Mike
> Just ran the test today heres the results
> 10m.- very slight peak from zero not readable
> 15m.- same as above
> 20m.- S/1.5 peak
> 40m - S/2
> 80m - S/2
> 160m - S/2
>
>
>
>
> _____
> From: w5rkl <w5rkl@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, December 29, 2008 2:33:47 AM
> Subject: [TS-520_820_530_830] Re: TS-820 S-Meter
>
>
> Try turning the calibrator ON and tune the calibrator signal in and
> adjust the DRIVE control for peak S meter reading. Don't zero beat the
> calibrator, tune the VFO and DRIVE control for peak S meter readings.
> What are the S meter readings on each band?
>

> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com, "kc2pcr" <KC2PCR@> wrote:
> >
> > DITTO.. However my rig is a TS-520...No movement on the S-meter
unless
> > the signal is one of the local big guns & then its barely S-1 to S-3
> > when it should be +30 or buried.
> > I do know to keep the RF GAIN wide open otherwise theres no
S-meter at
> > all.
> > My 520 really performs excellent in every other aspect, so it's
really
> > not much of a problem here either, except it would be nice to be able
> > to give folks an honest signal report.
> > I only operate my 520 on the 10 meter band connected to an 8 element
> > mono-bander up at 70 feet & the super sensitivity in the received
> > signals I am hearing, as well as how nicely the antenna system
matches
> > up on the analyser & the fact that I am using low loss feedlines that
> > spec out perfectly with minimal loss also verified with the
analyser..I
> > know some of the locals should be burying the S-meter...but it barely
> > moves?
> >
> > Thanks & 73
> > Doug kc2pcr
> >
> > --- In TS-520_820_530_ 830@yahoogroups. com, "markcurry65"
> > <markcurry65@ > wrote:
> > >
> > > The S-Meter on my 820 needs a very strong signal to move the
needle.
> > > The most it ever peaks is 3 to a 5 when it should read 20+.
Should I
> > > just live with it or is there an easy fix to this problem.
> > > The radio seems to work just fine apart from this small promblem.
> > >
> >
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

19558. Re: [TS-520_820_530_830] Re: Spectrum Analyzer

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-03 23:27:45 UTC
From: richard
Topic: 19543 Message: 19558

On Sat, 03 Jan 2009 20:50:49 -0000
"Gordon" <n6wk@...> wrote:

> Thanks Richard,
> I am doing just that. I connected the short jumper last night and
> started playing. Lots of fun and you are right, this is the best way
> to learn.
> To use the RF unit as a general RX, do I just connect my Antenna to
> the input and take a look?
> Thanks for all the help and tips.
> Yes, My mainframe is in GREAT shape and does not appear to have any
> burn ion marks. I want to keep it that way too!
> From what i read, I must be sure to keep the background Green and not
> black.. Correct?
> 73,
> Gordon
>
>

Yes Gordon
That applies to the storage mode, keep the persistence low as well.
to use it as a Rx plug an antenna into the RF i/p, tune the required
signal to the center of the screen, then switch to zero span, Keep the
IF bandwidth as wide as possible , reducing it after peaking the
signal, use 2dB/div or Lin, you should get a demodulated signal out of
either the penlift or vertical output sockets.

You can keep the grass down using the baseline clipper.
--
Best wishes

Richard Bown

##
Registered Linux User 36561
OS: Ubuntu 8.10, Intrepid, on AMD Dual Athlon 64 +4400: 8 GB RAM DDR2
Ham Call: G8JVM , QRA IO82SP, Interests Microwave
##

19559. Re: PC-1 Phone Patch and PSK-31

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-04 04:17:02 UTC
From: raydeeoh08
Topic: 19539 Message: 19559

I use a PC-1a (same thing except connector). If you want to use your mic for phone, connect it to the front of the PC-1 and connect the PC-1's mic connector to the rig. Then connect your sound card's audio output to the LINE input on the back of the PC-1. I use the constant voltage audio output from my TS-940 to the LINE input for my sound card, but there is no reason you couldn't use a "Y" connector from your rig's speaker output into the LINE input - just make sure to pad it so it doesn't overload the input to your soundcard.

When you switch the PC-1 to the "OFF" position, the mic will be engaged for normal phone use. When you switch the PC-1 to the "ON" position, your mic will be muted and your PSK-31 output from your sound card will be routed through the LINE input to your rig's mic input.

I intend to do something a bit more sophisticated for PSK-31 in a week or so as I want to continue to have the flexibility of using the PC-1a for a phone patch, but for now it works very well indeed.

Cheers,
Robert
VE7BDO

--- In TS-520_820_530_830@yahoogroups.com, "ve3wej gmail" <ve3wej@...> wrote:
>
> are you looking for the schematic for the pc1, i can help you with that, as far as using it for psk, no help there, you may have to engineer it yourself....
>
>
> VE3WEJ
> Dave Garber
>
> 10-X # 23465
> echolink # 52852
> irlp node 2202
> email ve3wej@...
> ----- Original Message -----
> From: Tate Antrim
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, January 01, 2009 5:45 PM
> Subject: [TS-520_820_530_830] PC-1 Phone Patch and PSK-31
>
>
> I've been reading about hooking up the PC-1 phone patch to do PSK31 over a

> hybrid, but I've not found any connection schematics.can someone
here point
> me in the right direction?
>
> KD8HJA
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

19560. RE: [TS-520_820_530_830] Re: PC-1 Phone Patch and PSK-31

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-04 16:46:26 UTC
From: Tate Antrim
Topic: 19539 Message: 19560

Ok so you are running your radio audio directly to the computer and bypassing the phone patch with audio output (not connecting it to RX IN on the patch and then sp output to the computer.) This way the patch activates the VOX on my rig (TS520S).

I'm thinking of ordering a Signalink USB as I don't think I need to run VOX for that to work

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of raydeeoh08
Sent: Saturday, January 03, 2009 11:17 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: PC-1 Phone Patch and PSK-31

I use a PC-1a (same thing except connector). If you want to use your mic for phone, connect it to the front of the PC-1 and connect the PC-1's mic connector to the rig. Then connect your sound card's audio output to the LINE input on the back of the PC-1. I use the constant voltage audio output from my TS-940 to the LINE input for my sound card, but there is no reason you couldn't use a "Y" connector from your rig's speaker output into the LINE input - just make sure to pad it so it doesn't overload the input to your soundcard.

When you switch the PC-1 to the "OFF" position, the mic will be engaged for normal phone use. When you switch the PC-1 to the "ON" position, your mic will be muted and your PSK-31 output from your sound card will be routed through the LINE input to your rig's mic input.

I intend to do something a bit more sophisticated for PSK-31 in a week or so as I want to continue to have the flexibility of using the PC-1a for a phone patch, but for now it works very well indeed.

Cheers,
Robert
VE7BDO

--- In TS-520_820_530_830@yahoogroups.com <mailto:TS-520_820_530_830%40yahoogroups.com> , "ve3wej gmail" <ve3wej@...> wrote:
>
> are you looking for the schematic for the pc1, i can help you with that, as far as using it for psk, no help there, you may have to engineer it yourself....
>
>
> VE3WEJ
> Dave Garber

>
> 10-X # 23465
> echolink # 52852
> irlp node 2202
> email ve3wej@...
> ----- Original Message -----
> From: Tate Antrim
> To: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Thursday, January 01, 2009 5:45 PM
> Subject: [TS-520_820_530_830] PC-1 Phone Patch and PSK-31
>
>
> I've been reading about hooking up the PC-1 phone patch to do
PSK31 over a
> hybrid, but I've not found any connection schematics.can someone
here point
> me in the right direction?
>
> KD8HJA
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

19561. QRP with TS-820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-04 10:26:30 UTC
From: robert_glerum
Topic: 19561 Message: 19561

I want to use my TS-820s with a recuced power of 25 W in SSB mode (because af license restrictions).

How can I do that?

I found in a suvival guide for the 830 (mind I use a 820)the following:

[QUOTE]
On SSB, turning down the mike gain is a very poor way to reduce output power because doing so defeats the transmitter's ALC system. Thus, when you turn down the mike gain, you cannot assure any particular peak output level, and you're also turning down only the voice modulation content of your signal; the original carrier suppression, unwanted sideband suppression, miscellaneous transmitted noise, spurious and so forth are not adjusted "down," at all, but remain as they were. As such, signal quality overall suffers. The best way to "turn down" the power of a TS830S - and many other rigs of that vintage that have no power level control on SSB - is via the external ALC port on the rig's rear panel. Providing an adjustable bias level to that port, ranging from 0 V DC to □10 V DC, will allow full-range power adjustment, down to zero output. This is easily accomplished with a 9 V transistor radio battery (be sure to wire the "+" battery terminal to chassis ground - the ALC voltage supplied must be negative) and a 1000 Ohm potentiometer wired as a voltage divider.
Tune up normally with the pot adjusted for zero voltage at the ALC terminal, and you should have about 100 W output. With the key down, now turn the pot until the power falls off to whatever power output you desire. Then, switch to SSB and your output will be that reduced level. DO NOT RETUNE anything on the rig, its tuning will be just fine. This is the way I adjusted to output power of my TS830S for many years, it works perfectly and still provides all the normal audio punch and clarity, but at reduced output power. (WB2WIK/6)
[END QUOTE]

I can't find a external ALC port at the rear of my 820s (nor at the 830).
So how can I manage?

Are there other solutions?

PD4GLR
Robert

19562. Re: [TS-520_820_530_830] Re: TS-520 VFO Problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-04 11:56:17 UTC
From: Doug KC9AYS
Topic: 18771 Message: 19562

Ok, I spoke to soon. It worked fine for about 8 hrs then started the same thing again. It would read something totally out of the band, then the numbers would flicker on and off, sometimes it just goes crazy and only one number will come on and it jumps all over the place. Any other ideas? The rig is transmitting fine and seems to be staying on freq. according to the analog dial and using the marker.

Doug
KC9AYS

--- On Sat, 1/3/09, Doug <dsib432@...> wrote:

> From: Doug <dsib432@...>
> Subject: [TS-520_820_530_830] Re: TS-520 VFO Problem
> To: TS-520_820_530_830@yahoogroups.com
> Date: Saturday, January 3, 2009, 6:42 AM
> For those who may have the same problem with the freq
> readout going
> out or reading wrong, here i what I found: After cleaning
> everything
> in the radio I could get at with Deoxit (which cleared up a
> different
> minor problem) and still having the same problem, I found
> the screw
> that holds and grounds the small board behind the readout
> was the
> problem. I rocked it back and forth a few times and the
> problem went
> away. It came back so I pulled it out all the way and
> cleaned the
> screw, circuit board and the threads where it mounts and it
> seems to
> be working fine now. Hopefully it will stay working.
>
> thanks for all the advice.
>
> Doug
> KC9AYS
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Dave
> Faria"
> <dave_faria@...> wrote:
> >
> > The screwdriver I used was a gun smith's
> screwdriver. It has a special
> > ratchet handle that accepts a Philips bit. The handle

> only needs
> abt 1/2in.
> > of depth to work.
> >
> > -----Original Message-----
> > From: TS-520_820_530_830@yahoogroups.com
> > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf
> Of Doug
> > Sent: Saturday, November 08, 2008 6:11 AM
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: [TS-520_820_530_830] Re: TS-520 VFO Problem
> >
> > I am having a problem with a TS820S vfo with numbers
> going on and off.
> > I was going to try this cleaning idea but the screws
> are hard to get
> > to. It looks like I need an inverted screwdriver to
> get at them, or
> > am I missing something here?
> >
> > Thanks in advance,
> > Doug
> > KC9AYS
> >
> > --- In TS-520_820_530_830@yahoogroups.com,
> "w5rkl" <w5rkl@> wrote:
> > >
> > > Although aging and dried up power supply filter
> capacitors do present
> > > problems within Kenwood hybirds and other radios
> for that matter, this
> > > problem is not related to aging and dried up
> power supply filter
> > > capacitors.
> > >
> > > Over time dust, dirt, and/or corrosion builds up
> at the VFO's variable
> > > capacitor to frame metal contact point. This also
> includes the
> > > variable capacitor's bearings, the conductive
> grease dries up and
> > > connection is lost or becomes intermittent. If
> the erratic behavior is
> > > due to dust, dirt, and/or corrosion on the shaft
> to frame metal
> > > contact point, the connection becomes unstable
> resulting in erratic
> > > VFO behavior, as seen by instability on digital
> displays and the
> > > "jumpiness" heard in the speaker as the

> VFO is rotated. This erratic
> > > VFO behavior will not only affect receive but
> also transmit since the
> > > VFO is a "common mode" circuit used in
> both transmit and receive.
> > >
> > > The cure is to clean the VFO's shaft to frame
> metal connection point
> > > with contact cleaner then rotating the VFO
> throughout its travel a
> > > number of times. This may require a second
> application of contact
> > > cleaner depending on how dirty the connection is.
> Once this is done,
> > > more often than not, the problem goes away. As
> always, wait the 3 to 5
> > > minutes after applying contact cleaner before
> applying power since
> > > contact cleaner is flammable and only takes a
> small spark to ignite
> > > the contact cleaner!!
> > >
> > > The VFO's in most Kenwood hybrids have a
> small panel on the right side
> > > of the VFO, secured to the VFO housing with two
> Phillips head screws.
> > > Removing this plate allows access to the
> VFO's shaft to frame contract
> > > point. Removal of the VFO, in most cases, is not
> required. However, if
> > > one removes the VFO it is important when
> reinstalling the VFO to
> > > "align" the dial(s) correctly otherwise
> the dial will not track
> > > properly across "any band".
> > >
> > > If this all sounds a bit too much to do and the
> thought of doing
> > > something wrong that may harm or damage the
> radio, find someone who is
> > > skilled in performing this type of work. It's
> best to have someone
> > > else do it who knows what they are doing than to
> cause harm or damage
> > > to your radio by not knowing how to do it or do
> it improperly.
> > >
> > > 73
> > > Mike
> > > W5RKL

> > >
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com,
> "sootydave" <sootydave@>
> > > wrote:
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com,
> "dave_faria2003"
> > > > <dave_faria2003@> wrote:
> > > > >
> > > > > GM list. This is my 1st posting on
> your list. I am the original
> > > > > owner of a TS-520 which I bought back
> in 1973. I want to put
> it bk
> > > > > on the air. Yesterday when I turned
> the radio on the vfo
> seems to
> > > > > just barely work. It works OK up to
> abt 300khz on all bands and
> > > > > then becomes erratic. I think it might
> just need to be
> cleaned. I
> > > > > have cleaned the rotary switches with
> De-Oxit which helped
> some. It
> > > > > appears that I need to remove the VFO
> by dropping off the front
> > > > > panel. Removing the front panel looks
> to be quite a job. So my
> > > > > questions are:
> > > > >
> > > > > 1. Am I moving in the right
> direction?? Is the problem in the
> > > > > VFO??
> > > > > 2. Is this a typical problem for a
> radio that has been on the
> > > > shelf
> > > > > for 20+ years.
> > > > > 3. Is inside the VFO the correct place
> to look or is this a
> > > > voltage
> > > > > problem somewhere else??
> > > > >
> > > > > This radio has never been apart before.
> > > > >
> > > > > Thanks List for your thoughts.
> > > > >

> > > > > Dave Faria
> > > > > Austin, Tx
> > > > >
> > > > dave
> > > > i would asume that if this radio has been
> sat on a shelfe for so
> long
> > > > gathering dust, the problem may not be the
> vfo, more than likely it
> > > > is going to be dry capacitors, it may need
> to be sent off to the
> > > > doctors for a magor overhale.
> > > > just a thought.
> > > > 73's
> > > > dave
> > > >
> > >
> >
> >
> > ---
> >
> > Yahoo! Groups Links
> >

19563. Re: QRP with TS-820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-04 18:55:45 UTC
From: w5rkl
Topic: 19561 Message: 19563

Robert,

The ALC on the 820 is on the 8 pin octal socket pin 6. Ground is on pin 1. The 820's ALC threshold voltage is approximately -6VDC.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "robert_glerum" <pd4glr@...> wrote:
>
> I want to use my TS-820s with a recuced power of 25 W in SSB mode
> (because af license restrictions).
>
> How can I do that?
>
> I found in a suvival guide for the 830 (mind I use a 820)the
> following:
>
> [QUOTE]
> On SSB, turning down the mike gain is a very poor way to reduce
> output power because doing so defeats the transmitter's ALC system.
> Thus, when you turn down the mike gain, you cannot assure any
> particular peak output level, and you're also turning down only the
> voice modulation content of your signal; the original carrier
> suppression, unwanted sideband suppression, miscellaneous transmitted
> noise, spurious and so forth are not adjusted "down," at all, but
> remain as they were. As such, signal quality overall suffers. The
> best way to "turn down" the power of a TS830S - and many other rigs
> of that vintage that have no power level control on SSB - is via the
> external ALC port on the rig's rear panel. Providing an adjustable
> bias level to that port, ranging from 0 V DC to □10 V DC, will allow
> full-range power adjustment, down to zero output. This is easily
> accomplished with a 9 V transistor radio battery (be sure to wire
> the "+" battery terminal to chassis ground - the ALC voltage supplied
> must be negative) and a 1000 Ohm potentiometer wired as a voltage
> divider.
> Tune up normally with the pot adjusted for zero voltage at the ALC
> terminal, and you should have about 100 W output. With the key down,
> now turn the pot until the power falls off to whatever power output
> you desire. Then, switch to SSB and your output will be that reduced
> level. DO NOT RETUNE anything on the rig, its tuning will be just
> fine. This is the way I adjusted to output power of my TS830S for
> many years, it works perfectly and still provides all the normal

> audio punch and clarity, but at reduced output power. (WB2WIK/6)
> [END QUOTE]
>
> I can't find a external ALC port at the rear of my 820s (nor at the
> 830).
> So how can I manage?
>
> Are there other solutions?
>
> PD4GLR
> Robert
>

19564. Re: TS-520 VFO Problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-04 19:11:43 UTC
From: w5rkl
Topic: 18771 Message: 19564

I assume the digital display is the DG-5. So my thoughts are based on the DG-5.

My first thought is the 7805 regulator is failing. Replacements are easy to fine, Mouser has them, and are cheap.

Since the radio, as you have said, is working fine otherwise, I don't suspect a problem with the radio. I assume you have cleaned the cable connections.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Doug KC9AYS <dsib432@...> wrote:
>
> Ok, I spoke to soon. It worked fine for about 8 hrs then started the same thing again. It would read something totally out of the band, then the numbers would flicker on and off, sometimes it just goes crazy and only one number will come on and it jumps all over the place. Any other ideas? The rig is transmitting fine and seems to be staying on freq. according to the analog dial and using the marker.
> >
> > Doug
> > KC9AYS
> >
> >
> > --- On Sat, 1/3/09, Doug <dsib432@...> wrote:
> >
> > > From: Doug <dsib432@...>
> > > Subject: [TS-520_820_530_830] Re: TS-520 VFO Problem
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Date: Saturday, January 3, 2009, 6:42 AM
> > > For those who may have the same problem with the freq
> > > readout going
> > > out or reading wrong, here i what I found: After cleaning
> > > everything
> > > in the radio I could get at with Deoxit (which cleared up a
> > > different
> > > minor problem) and still having the same problem, I found
> > > the screw
> > > that holds and grounds the small board behind the readout
> > > was the
> > > problem. I rocked it back and forth a few times and the
> > > problem went

> > away. It came back so I pulled it out all the way and
> > cleaned the
> > screw, circuit board and the threads where it mounts and it
> > seems to
> > be working fine now. Hopefully it will stay working.
> >
> > thanks for all the advice.
> >
> > Doug
> > KC9AYS
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Dave
> > Faria"
> > <dave_faria@> wrote:
> > >
> > > The screwdriver I used was a gun smith's
> > screwdriver. It has a special
> > > ratchet handle that accepts a Philips bit. The handle
> > only needs
> > abt 1/2in.
> > > of depth to work.
> > >
> > > -----Original Message-----
> > > From: TS-520_820_530_830@yahoogroups.com
> > > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf
> > Of Doug
> > > Sent: Saturday, November 08, 2008 6:11 AM
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Subject: [TS-520_820_530_830] Re: TS-520 VFO Problem
> > >
> > > I am having a problem with a TS820S vfo with numbers
> > going on and off.
> > > I was going to try this cleaning idea but the screws
> > are hard to get
> > > to. It looks like I need an inverted screwdriver to
> > get at them, or
> > > am I missing something here?
> > >
> > > Thanks in advance,
> > > Doug
> > > KC9AYS
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com,
> > "w5rkl" <w5rkl@> wrote:
> > > >
> > > > Although aging and dried up power supply filter
> > capacitors do present
> > > > problems within Kenwood hybirds and other radios
> > for that matter, this

> > > > problem is not related to aging and dried up
> > power supply filter
> > > > capacitors.
> > > >
> > > > Over time dust, dirt, and/or corrosion builds up
> > at the VFO's variable
> > > > capacitor to frame metal contact point. This also
> > includes the
> > > > variable capacitor's bearings, the conductive
> > grease dries up and
> > > > connection is lost or becomes intermittent. If
> > the erratic behavior is
> > > > due to dust, dirt, and/or corrosion on the shaft
> > to frame metal
> > > > contact point, the connection becomes unstable
> > resulting in erratic
> > > > VFO behavior, as seen by instability on digital
> > displays and the
> > > > "jumpiness" heard in the speaker as the
> > VFO is rotated. This erratic
> > > > VFO behavior will not only affect receive but
> > also transmit since the
> > > > VFO is a "common mode" circuit used in
> > both transmit and receive.
> > > >
> > > > The cure is to clean the VFO's shaft to frame
> > metal connection point
> > > > with contact cleaner then rotating the VFO
> > throughout its travel a
> > > > number of times. This may require a second
> > application of contact
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> > > > W5RKL
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> > > >
> > > Yahoo! Groups Links
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19565. Re: TS-520 VFO Problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-04 19:15:59 UTC
From: w5rkl
Topic: 18771 Message: 19565

I seem to be mistaken about the radio, it appears it's an 820 not a 520.

If the radio is an 820 then I stand corrected. There's no DG-5 but a "DG-1" which also has a 7805 regulator located on a small PC board next to the rear of the IF UNIT on the left rear of the 820 on top of the chassis. The 7805 may be failing.

73
Mike
W5RKL

--- In TS-520_820_530_830@...m, Doug KC9AYS <dsib432@...> wrote:
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> > --- On Sat, 1/3/09, Doug <dsib432@...> wrote:
> >
> > > From: Doug <dsib432@...>
> > > Subject: [TS-520_820_530_830] Re: TS-520 VFO Problem
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Date: Saturday, January 3, 2009, 6:42 AM
> > > For those who may have the same problem with the freq
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> > > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf
> > Of Doug
> > > Sent: Saturday, November 08, 2008 6:11 AM
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Subject: [TS-520_820_530_830] Re: TS-520 VFO Problem
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19566. Re: TS-520 VFO Problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-04 21:11:26 UTC
From: w5rkl
Topic: 18771 Message: 19566

You can check the regulator by measuring the output voltage, it should
be 5VDC. If it is less than 5VDC then the regulator is failing.

Try blowing canned air on the regulator and if the problem goes away
then the regulator needs to be replaced. A can of circuit freeze works
better.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
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> > > > Yahoo! Groups Links
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19567. Re: [TS-520_820_530_830] QRP with TS-820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-04 21:27:13 UTC
From: ve3wej gmail
Topic: 19561 Message: 19567

turn down the mike gain, or car level..... use a external meter should show the results...

VE3WEJ
Dave Garber

10-X # 23465
echolink # 52852
irlp node 2202
email ve3wej@...
----- Original Message -----
From: robert_glerum
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, January 04, 2009 5:26 AM
Subject: [TS-520_820_530_830] QRP with TS-820s

I want to use my TS-820s with a recuced power of 25 W in SSB mode (because af license restrictions).

How can I do that?

I found in a suvival guide for the 830 (mind I use a 820)the following:

[QUOTE]
On SSB, turning down the mike gain is a very poor way to reduce output power because doing so defeats the transmitter's ALC system. Thus, when you turn down the mike gain, you cannot assure any particular peak output level, and you're also turning down only the voice modulation content of your signal; the original carrier suppression, unwanted sideband suppression, miscellaneous transmitted noise, spurious and so forth are not adjusted "down," at all, but remain as they were. As such, signal quality overall suffers. The best way to "turn down" the power of a TS830S - and many other rigs of that vintage that have no power level control on SSB - is via the external ALC port on the rig's rear panel. Providing an adjustable bias level to that port, ranging from 0 V DC to -10 V DC, will allow full-range power adjustment, down to zero output. This is easily accomplished with a 9 V transistor radio battery (be sure to wire the "+" battery terminal to chassis ground - the ALC voltage supplied must be negative) and a 1000 Ohm potentiometer wired as a voltage divider.
Tune up normally with the pot adjusted for zero voltage at the ALC terminal, and you should have about 100 W output. With the key down, now turn the pot until the power falls off to whatever power output you desire. Then, switch to SSB and your output will be that reduced

level. DO NOT RETUNE anything on the rig, its tuning will be just fine. This is the way I adjusted to output power of my TS830S for many years, it works perfectly and still provides all the normal audio punch and clarity, but at reduced output power. (WB2WIK/6)
[END QUOTE]

I can't find a external ALC port at the rear of my 820s (nor at the 830).
So how can I manage?

Are there other solutions?

PD4GLR
Robert

[Non-text portions of this message have been removed]

19568. Pictures sent to this site woun't work.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-05 01:14:25 UTC
From: nowaham
Topic: 19568 Message: 19568

I have tried to send pictures to this site and I can't get it to work. ? ? ? So what's the trick? Please help me, so I can send a Pix of my shack. Thanks KE7LGD.

19569. Re: [TS-520_820_530_830] Pictures sent to this site woun't work.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-05 01:25:43 UTC
From: WA6RKN
Topic: 19568 Message: 19569

Yahoo no longer permits images in their groups. If they are sent via email, they will be seen by email subscribers, but not those who receive the group in digest form or read on line.

There is a trick to getting images in the messages, but the easiest way is to set up a free account with PhotoBucket and up your images there...then you can C&P the URL of the image and insert that in your post. All we, as a reader have to do, is click on the hot link and go view.

Like this:
http://s11.photobucket.com/albums/a177/MCharlie/?action=view¤t=Shack-1.jpg

Hope that helps!

Joe Wolfe
WA6RKN

----- Original Message -----
From: "nowaham" <brucebissell@...>
Subject: [TS-520_820_530_830] Pictures sent to this site woun't work.

>I have tried to send pictures to this site and I can't get it to
> work. ? ? ? So what's the trick? Please help me, so I can send a Pix
> of my shack. Thanks KE7LGD.

19570. Re: [TS-520_820_530_830] Re: TS-820 S-Meter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-05 07:03:21 UTC
From: Mark Curry
Topic: 19468 Message: 19570

hello mike
went to my TS-820 manual done the IF boards adjustments now everything is great I can even get an S-meter reading on local QRN and some big readings on local QRM HI HI.
Hope to get my callsign through soon (red tape is thick in VK) and maybe I'll hear you on the bands and make a contact can't wait to work some DX.
Cheers 73 from VK
MARK

From: w5rkl <w5rkl@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, January 4, 2009 9:17:43 AM
Subject: [TS-520_820_530_830] Re: TS-820 S-Meter

Hello Mark,

Since the receiver appears to be working fine and from the results you
have provided, it appears the S meter is out of calibration.

Do you have the TS-820's service manual? If not, you can download it
free at the following link:

http://bama. edebris.com/ manuals/kenwood/ ts820s/

The S meter alignment is on page 47 paragraph 2-8 at the top of the page.

If you do not have a signal generator you can use the 820's
Calibrator, although it will not be as accurate, as a signal source
during the adjustments.

73
Mike
W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, Mark Curry
<markcurry65@ ...> wrote:
>
> Hi Mike
> Just ran the test today heres the results
> 10m.- very slight peak from zero not readable
> 15m.- same as above
> 20m.- S/1.5 peak
> 40m - S/2
> 80m - S/2
> 160m - S/2
>
>

>
>
> _____ _____ _____ __
> From: w5rkl <w5rkl@...>
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Monday, December 29, 2008 2:33:47 AM
> Subject: [TS-520_820_ 530_830] Re: TS-820 S-Meter
>
>
> Try turning the calibrator ON and tune the calibrator signal in and
> adjust the DRIVE control for peak S meter reading. Don't zero beat the
> calibrator, tune the VFO and DRIVE control for peak S meter readings.
> What are the S meter readings on each band?
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com, "kc2pcr" <KC2PCR@> wrote:
> >
> > DITTO.. However my rig is a TS-520...No movement on the S-meter
unless
> > the signal is one of the local big guns & then its barely S-1 to S-3
> > when it should be +30 or buried.
> > I do know to keep the RF GAIN wide open otherwise theres no
S-meter at
> > all.
> > My 520 really performs excellent in every other aspect, so it's
really
> > not much of a problem here either, except it would be nice to be able
> > to give folks an honest signal report.
> > I only operate my 520 on the 10 meter band connected to an 8 element
> > mono-bander up at 70 feet & the super sensitivity in the received
> > signals I am hearing, as well as how nicely the antenna system
matches
> > up on the analyser & the fact that I am using low loss feedlines that
> > spec out perfectly with minimal loss also verified with the
analyser..I
> > know some of the locals should be burying the S-meter...but it barely
> > moves?
> >
> > Thanks & 73
> > Doug kc2pcr
> >
> > --- In TS-520_820_530_ 830@yahoogroups.. com, "markcurry65"
> > <markcurry65@ > wrote:
> > >
> > > The S-Meter on my 820 needs a very strong signal to move the
needle.
> > > The most it ever peaks is 3 to a 5 when it should read 20+.

Should I
> > > just live with it or is there an easy fix to this problem.
> > > The radio seems to work just fine apart from this small promblem.
> > >
> >
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

19571. Re: TS-820 S-Meter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-05 12:04:55 UTC
From: w5rkl
Topic: 19468 Message: 19571

Hello Mark,

I'm really glad the S meter is now working properly. Over time components age and factory setting don't always give the same readings as they did when the radio was new. However, you seem to have fixed the problem and that's all that counts. Good luck on the call sign issue and hope to hear you on the bands soon.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Mark Curry <markcurry65@...> wrote:
>
> hello mike
> went to my TS-820 manual done the IF boards adjustments now everything is great I can even get an S-meter reading on local QRN and some big readings on local QRM HI HI.
> Hope to get my callsign through soon (red tape is thick in VK) and maybe I'll hear you on the bands and make a contact can't wait to work some DX.
> Cheers 73 from VK
> MARK
>
>
>
>
> _____
> From: w5rkl <w5rkl@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, January 4, 2009 9:17:43 AM
> Subject: [TS-520_820_530_830] Re: TS-820 S-Meter
>
>
> Hello Mark,
>
> Since the receiver appears to be working fine and from the results you
> have provided, it appears the S meter is out of calibration.
>
> Do you have the TS-820's service manual? If not, you can download it
> free at the following link:
>
> http://bama. edebris.com/ manuals/kenwood/ ts820s/
>
> The S meter alignment is on page 47 paragraph 2-8 at the top of the

page.
>
> If you do not have a signal generator you can use the 820's
> Calibrator, although it will not be as accurate, as a signal source
> during the adjustments.
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Mark Curry
> <markcurry65@ ...> wrote:
> >
> > Hi Mike
> > Just ran the test today heres the results
> > 10m.- very slight peak from zero not readable
> > 15m.- same as above
> > 20m.- S/1.5 peak
> > 40m - S/2
> > 80m - S/2
> > 160m - S/2
> >
> >
> >
> >
> > _____ _____ _____ __
> > From: w5rkl <w5rkl@>
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Sent: Monday, December 29, 2008 2:33:47 AM
> > Subject: [TS-520_820_ 530_830] Re: TS-820 S-Meter
> >
> >
> > Try turning the calibrator ON and tune the calibrator signal in and
> > adjust the DRIVE control for peak S meter reading. Don't zero beat the
> > calibrator, tune the VFO and DRIVE control for peak S meter readings.
> > What are the S meter readings on each band?
> >
> > 73
> > Mike
> > W5RKL
> >
> > --- In TS-520_820_530_ 830@yahoogroups. com, "kc2pcr" <KC2PCR@> wrote:
> > >
> > > DITTO.. However my rig is a TS-520...No movement on the S-meter
> unless
> > > the signal is one of the local big guns & then its barely S-1 to
S-3
> > > when it should be +30 or buried.
> > > I do know to keep the RF GAIN wide open otherwise theres no
> S-meter at

> > > all.
> > > My 520 really performs excellent in every other aspect, so it's
> really
> > > not much of a problem here either, except it would be nice to be
able
> > > to give folks an honest signal report.
> > > I only operate my 520 on the 10 meter band connected to an 8
element
> > > mono-bander up at 70 feet & the super sensitivity in the received
> > > signals I am hearing, as well as how nicely the antenna system
> matches
> > > up on the analyser & the fact that I am using low loss feedlines
that
> > > spec out perfectly with minimal loss also verified with the
> analyser..I
> > > know some of the locals should be burying the S-meter...but it
barely
> > > moves?
> > >
> > > Thanks & 73
> > > Doug kc2pcr
> > >
> > > --- In TS-520_820_530_ 830@yahoogroups.. com, "markcurry65"
> > > <markcurry65@ > wrote:
> > > >
> > > > The S-Meter on my 820 needs a very strong signal to move the
> needle.
> > > > The most it ever peaks is 3 to a 5 when it should read 20+.
> Should I
> > > > just live with it or is there an easy fix to this problem.
> > > > The radio seems to work just fine apart from this small promblem.
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> > [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
>

19572. Re: Pictures sent to this site woun't work.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-05 12:56:03 UTC
From: kc2pcr
Topic: 19568 Message: 19572

Joe, Your falcon is a beauty, Don't get me wrong...your wife is
sure enough pretty too...but the falcon....Ahhhhhhhh...WOW!! I am
still DROOLIN!!!!!!!!!
Especially enjoyed the picture of the HWY Patrolman at your window!!
Very nicely done, I would die for a ride in her. I have a feeling it
will set your head right back in the seat.
Look me up when you're on the east coast, would be a privlige to have
an eyeball qso.
Thanks for the link to your personal photos..That is one ROCKIN
little ford.
73 Doug kc2pcr

"WA6RKN" wrote:

> http://s11.photobucket.com/albums/a177/MCharlie/?
action=view¤t=Shack-1.jpg
>
> Hope that helps!
>
> Joe Wolfe
> WA6RKN

19573. Re: QRP with TS-820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-05 22:07:47 UTC
From: james27613
Topic: 19561 Message: 19573

hi,

In file section of the group,
go to Mods, then bottom of the page find

Use ALC input to 'force' QRP operation.jpg

73 james ke4drn

19574. Re: Pictures sent to this site woun't work.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-05 22:11:22 UTC
From: james27613
Topic: 19568 Message: 19574

hi,

I just sent a test photo the the Photo
part of the forum and it worked fine.

73 james ke4dɪn

19575. Re: [TS-520_820_530_830] Re: Pictures sent to this site woun't work.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-06 01:15:26 UTC
From: ve3wej gmail
Topic: 19568 Message: 19575

yes, but you can include attachments in the email, which I think is what the other party was trying to do...

VE3WEJ
Dave Garber

10-X # 23465
echolink # 52852
irlp node 2202
email ve3wej@...
----- Original Message -----
From: james27613
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, January 05, 2009 5:11 PM
Subject: [TS-520_820_530_830] Re: Pictures sent to this site woun't work.

hi,

I just sent a test photo the the Photo
part of the forum and it worked fine.

73 james ke4drn

[Non-text portions of this message have been removed]

19576. TS-520S CW Filter Wanted

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-06 22:06:08 UTC
From: Jim W7RY
Topic: 19576 Message: 19576

I'm looking for a CW filter for a TS-520S. Either a stock filter or an aftermarket like INRAD or International Radio, (The old Fox Tango folks).

Thanks and 73
Jim W7RY

[Non-text portions of this message have been removed]

19577. 6146B matched pair

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 00:20:58 UTC
From: rickoreair
Topic: 19577 Message: 19577

I've been a ham for a long time and was always embarrased to ask what the significance of a "matched pair" of 6146's was. I'm now old enough to not worry about being embarrased, so can anyone tell me why I should buy a matched pair of tubes vs just ordering two tubes. Thanks

19578. Need 8 pin remote VFO interface cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 00:36:04 UTC
From: jwsanders2002
Topic: 19578 Message: 19578

I am a relatively new ham with a functional Yaesu 857D [do all] mini station and very happy with it. BUT today I purchased a MINT [no marks anywhere] TS-820/VFO-820/AT-200/MC-50 listed on my local Craig's list. This makes an elegant but classic station with SO SO much for me to learn. My first question is where can I find a REASONABLY priced 8 pin Remote VFO Interface cable. Searcing the web turns up only an EBay dealer who is asking $44.95 plus shipping. Considering I paid $400 for the whole station I hope someone can help me with a more reasonable source.
Thanks, Jack
N7BBX

19579. Re: [TS-520_820_530_830] 6146B matched pair

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 00:57:27 UTC
From: Jojo Vicencio DV1VHY
Topic: 19577 Message: 19579

Funny this letter would come up just as soon as I have ordered a pair of 6146Bs from RF Parts. I took up electronics for my shop in hs and that was how I came upon ham radio. It was the early 70s then so we had nothing but heathkit SB line and they had tubes in them. When I got involved with audio amps, the need for a matched pair of tubes or transistors became more apparent because of the stereo amps.

I have heard that the matched pair was not a necessity with the TS520 finals but with the Ameritron AL-811 series, they are recommending matched pairs, trips or quads.

73,

jojo

Roberto "Jojo" Vicencio USN(Retired)

(DV1VHY ex-dw1olv)

Mobile +639178501759

VOIP +1-616-928-1134

http://www.vicencio.net

http://picasaweb.google.com/mob3mc

http://www.dw1olv.multiply.com

https://sites.google.com/site/militaryretireesoverseas/

http://mrgrg-ms.org/ad-swindle-00.html

--- On Wed, 1/7/09, rickoreair <rickoreair@...> wrote:

From: rickoreair <rickoreair@...>
Subject: [TS-520_820_530_830] 6146B matched pair
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, January 7, 2009, 8:20 AM

I've been a ham for a long time and was always embarrased to ask what

the significance of a "matched pair" of 6146's was. I'm now old enough

to not worry about being embarrased, so can anyone tell me why I should

buy a matched pair of tubes vs just ordering two tubes. Thanks

[Non-text portions of this message have been removed]

19580. Re: [TS-520_820_530_830] 6146B matched pair

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 01:02:49 UTC
From: Phil Barnett
Topic: 19577 Message: 19580

rickoreair wrote:
> I've been a ham for a long time and was always embarrased to ask what
> the significance of a "matched pair" of 6146's was. I'm now old enough
> to not worry about being embarrased, so can anyone tell me why I should
> buy a matched pair of tubes vs just ordering two tubes. Thanks
>
>
Matched pairs are necessary in a push-pull configuration where each tube supplies the amplification for 1/2 of the sine wave. Since the tubes in Kenwood transmitters are parallel and not push-pull, it won't make a bit of difference. Keep your money and get a dozen donuts for your friends.

19581. Re: [TS-520_820_530_830] Need 8 pin remote VFO interface cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 02:06:50 UTC
From: ve3wej gmail
Topic: 19578 Message: 19581

connectors for the NINE pin are showing available at kenwoodparts.com 2.13 each, the wire can be the rotor cable since only 8 wires are used.....

I guess it depends on your soldering capabilities....

VE3WEJ
Dave Garber

10-X # 23465
echolink # 52852
irlp node 2202
email ve3wej@...
----- Original Message -----
From: jwsanders2002
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, January 06, 2009 7:36 PM
Subject: [TS-520_820_530_830] Need 8 pin remote VFO interface cable

I am a relatively new ham with a functional Yaesu 857D [do all] mini station and very happy with it. BUT today I purchased a MINT [no marks anywhere] TS-820/VFO-820/AT-200/MC-50 listed on my local Craig's list. This makes an elegant but classic station with SO SO much for me to learn. My first question is where can I find a REASONABLY priced 8 pin Remote VFO Interface cable. Searcing the web turns up only an EBay dealer who is asking $44.95 plus shipping. Considering I paid $400 for the whole station I hope someone can help me with a more reasonable source.
Thanks, Jack
N7BBX

[Non-text portions of this message have been removed]

19582. Re: [TS-520_820_530_830] 6146B matched pair

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 02:08:59 UTC
From: Jim W7RY
Topic: 19577 Message: 19582

Matched tube are used to BOTH tubes are working the same to produce output. In other words, each tube draws the same amount of plate current while transmitting.

The gain and or emission of the tube is measured and recorded. Then tubes with equal gain or emission are shipped to you.

73

Jim W7RY

----- Original Message -----
From: Phil Barnett
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, January 06, 2009 5:02 PM
Subject: Re: [TS-520_820_530_830] 6146B matched pair

rickoreair wrote:
> I've been a ham for a long time and was always embarrased to ask what
> the significance of a "matched pair" of 6146's was. I'm now old enough
> to not worry about being embarrased, so can anyone tell me why I should
> buy a matched pair of tubes vs just ordering two tubes. Thanks
>
>
Matched pairs are necessary in a push-pull configuration where each tube
supplies the amplification for 1/2 of the sine wave. Since the tubes in
Kenwood transmitters are parallel and not push-pull, it won't make a bit
of difference. Keep your money and get a dozen donuts for your friends.

[Non-text portions of this message have been removed]

19583. Re: 6146B matched pair

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 04:08:57 UTC
From: boat.anchor
Topic: 19577 Message: 19583

Probably because it sounds nice.
It is a bit like a good looking lady wearing earrings. If they are a matched pair they look good. If they are not matched but are an equal weight then she can still hold her head high.
Hope this makes sense
Barry

--- In TS-520_820_530_830@yahoogroups.com, "rickoreair" <rickoreair@...> wrote:
>
> I've been a ham for a long time and was always embarrased to ask what
> the significance of a "matched pair" of 6146's was. I'm now old enough
> to not worry about being embarrased, so can anyone tell me why I should
> buy a matched pair of tubes vs just ordering two tubes. Thanks
>

19584. Re: [TS-520_820_530_830] Re: 6146B matched pair

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 04:15:35 UTC
From: Alan
Topic: 19577 Message: 19584

Hi,

The differences between a matched pair and a non-matched pair when used in
r.f. is very minimal if it can be detected at all. When used in audio, there
are people who say that they can hear the difference between a matched pair
and a non-matched pair of tubes. However, about 99 percent of the people
can't tell the difference!

----- Original Message -----
From: "boat.anchor" <boat.anchor@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, January 07, 2009 5:08 PM
Subject: [TS-520_820_530_830] Re: 6146B matched pair

> Probably because it sounds nice.
> It is a bit like a good looking lady wearing earrings. If they are a
> matched pair they look good. If they are not matched but are an equal
> weight then she can still hold her head high.
> Hope this makes sense
> Barry
>
> --- In TS-520_820_530_830@yahoogroups.com, "rickoreair"
> <rickoreair@...> wrote:
>>
>> I've been a ham for a long time and was always embarrased to ask what
>> the significance of a "matched pair" of 6146's was. I'm now old
> enough
>> to not worry about being embarrased, so can anyone tell me why I
> should
>> buy a matched pair of tubes vs just ordering two tubes. Thanks
>>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.3/1879 - Release Date: 1/6/2009

5:16 PM

19585. Re: 6146B matched pair

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 14:06:41 UTC
From: w5rkl
Topic: 19577 Message: 19585

I agree, spending more money on matched pair of final tubes is a
waste. However, for those who believe in it then more power to em.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Alan" <alan@...> wrote:
>
> Hi,
>
> The differences between a matched pair and a non-matched pair when
used in
> r.f. is very minimal if it can be detected at all. When used in
audio, there
> are people who say that they can hear the difference between a
matched pair
> and a non-matched pair of tubes. However, about 99 percent of the
people
> can't tell the difference!
>
> ----- Original Message -----
> From: "boat.anchor" <boat.anchor@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Wednesday, January 07, 2009 5:08 PM
> Subject: [TS-520_820_530_830] Re: 6146B matched pair
>
>
> > Probably because it sounds nice.
> > It is a bit like a good looking lady wearing earrings. If they are a
> > matched pair they look good. If they are not matched but are an equal
> > weight then she can still hold her head high.
> > Hope this makes sense
> > Barry
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "rickoreair"
> > <rickoreair@> wrote:
> >>
> >> I've been a ham for a long time and was always embarrased to ask what
> >> the significance of a "matched pair" of 6146's was. I'm now old
> > enough
> >> to not worry about being embarrased, so can anyone tell me why I
> > should
> >> buy a matched pair of tubes vs just ordering two tubes. Thanks
> >>

> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
>
>
>

>
>
>
> No virus found in this incoming message.
> Checked by AVG - http://www.avg.com
> Version: 8.0.176 / Virus Database: 270.10.3/1879 - Release Date:
1/6/2009
> 5:16 PM
>

19586. RE: [TS-520_820_530_830] Need 8 pin remote VFO interface cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 15:20:20 UTC
From: BRENT BAUM
Topic: 19578 Message: 19586

Your most economical alternative is to make your own. The plugs are available for a few dollars and 8 conductor cable is also readily available. If you want to go for the least expensive forego the plugs and insert the tinned ends of the cable into the sockets. Its a straight through connection, no cross overs, e.g. pin 1 on radio goes to pin 1 on the remote VFO, etc.

Search the group archives for information on plug vendors.

Good luck.

K7MEI, Brent

To: TS-520_820_530_830@yahoogroups.comFrom: jwsanders2002@...: Wed, 7 Jan 2009 00:36:04 +0000Subject: [TS-520_820_530_830] Need 8 pin remote VFO interface cable

I am a relatively new ham with a functional Yaesu 857D [do all] mini station and very happy with it. BUT today I purchased a MINT [no marks anywhere] TS-820/VFO-820/AT-200/MC-50 listed on my local Craig's list. This makes an elegant but classic station with SO SO much for me to learn. My first question is where can I find a REASONABLY priced 8 pin Remote VFO Interface cable. Searcing the web turns up only an EBay dealer who is asking $44.95 plus shipping. Considering I paid $400 for the whole station I hope someone can help me with a more reasonable source.Thanks, JackN7BBX

[Non-text portions of this message have been removed]

19587. Re: [TS-520_820_530_830] Re: 6146B matched pair

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 11:12:47 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 19577 Message: 19587

On Wed, 2009-01-07 at 17:15 +1300, Alan wrote:
> Hi,
>
> The differences between a matched pair and a non-matched pair when used in
> r.f. is very minimal if it can be detected at all. When used in audio, there
> are people who say that they can hear the difference between a matched pair
> and a non-matched pair of tubes. However, about 99 percent of the people
> can't tell the difference!

For new Eastern European-made EL34s, they are generally so good these days that any two you take out of the box will be as close as you'd get without very accurate matching. Whether or not this extends to 6146A/B valves I don't know.

As a relative n00b in the world of valve PAs, I'd say the crucial difference is that in an audio amp, the output valves are working in push-pull. Any mismatch here will result in one "half" of the waveform being amplified a little less than the other. You'd hear this as second-harmonic distortion, which is what most of that nice "warm valve sound" is!

In the PA used in the TS520, the two valves are run in parallel, with separate anode and grid chokes and separate cathode resistor. This will allow each valve to "do its own thing" with regards to anode current. Since they're not in push-pull, they will be just about as linear as their biasing allows them to be.

Gordon

19588. Re: TS-520S CW Filter Wanted

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 15:40:03 UTC
From: freddhardeng
Topic: 19576 Message: 19588

W7RY de NX3G/

The filter you're looking happens to be on e-bay as I type this.
The bidding is at $24 something right now and there are 3 days till
the end of the auction. The URL is too long to post here, but it is
auction #190277979877 These filters pop up on e-bay pretty regularly.

If you search for 'cw filter' you will usually turn up 20 or more on
any given day. Search for 'kenwood cw filter' and you should hit one
or two weekly.

- Larry, NX3G

--- In TS-520_820_530_830@yahoogroups.com, "Jim W7RY" <w7ry@...> wrote:
>
> I'm looking for a CW filter for a TS-520S. Either a stock filter or
an aftermarket like INRAD or International Radio, (The old Fox Tango
folks).
>
> Thanks and 73
> Jim W7RY
>
>
>
> [Non-text portions of this message have been removed]
>

19589. Re: [TS-520_820_530_830] Re: 6146B matched pair

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 17:18:04 UTC
From: Kurt Cathcart
Topic: 19577 Message: 19589

I work on a lot of old guitar amp. In these circuits that are class a/b amplification in a design that is much like push/pull then matched tubes are desirable. In these circuits there is only one source for bias current and the goal is to have each tube have the same cut on/cut off points. If the tubes are matched and each tube if fed from the same bias current source then each tube should be working to amplify each half of the waveform the equally.

----- Original Message -----
From: Alan
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, January 06, 2009 11:15 PM
Subject: Re: [TS-520_820_530_830] Re: 6146B matched pair

Hi,

The differences between a matched pair and a non-matched pair when used in
r.f. is very minimal if it can be detected at all. When used in audio, there
are people who say that they can hear the difference between a matched pair
and a non-matched pair of tubes. However, about 99 percent of the people
can't tell the difference!

----- Original Message -----
From: "boat.anchor" <boat.anchor@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, January 07, 2009 5:08 PM
Subject: [TS-520_820_530_830] Re: 6146B matched pair

> Probably because it sounds nice.
> It is a bit like a good looking lady wearing earrings. If they are a
> matched pair they look good. If they are not matched but are an equal
> weight then she can still hold her head high.
> Hope this makes sense
> Barry
>
> --- In TS-520_820_530_830@yahoogroups.com, "rickoreair"
> <rickoreair@...> wrote:
>>
>> I've been a ham for a long time and was always embarrased to ask what
>> the significance of a "matched pair" of 6146's was. I'm now old
> enough
>> to not worry about being embarrased, so can anyone tell me why I
> should
>> buy a matched pair of tubes vs just ordering two tubes. Thanks
>>
>
>

>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.3/1879 - Release Date: 1/6/2009
5:16 PM

[Non-text portions of this message have been removed]

19590. Re: 6146B matched pair

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 18:13:18 UTC
From: w5rkl
Topic: 19577 Message: 19590

Kurt,

Push-pull amplifiers do not operate the same as parallel amplifier do. Most, if not all, RF final amplifiers with two or more tubes, operate in "parallel" not "push-pull". Therefore, comparing Push-Pull to parallel amplifiers is like comparing Apples to Oranges, they're not the same. Biasing is the same, all tubes receive the same bias voltage, but operation, Push-Pull operate entirely different than parallel does.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Kurt Cathcart" <kurt@...> wrote:
>
> I work on a lot of old guitar amp. In these circuits that are class a/b amplification in a design that is much like push/pull then matched tubes are desirable. In these circuits there is only one source for bias current and the goal is to have each tube have the same cut on/cut off points. If the tubes are matched and each tube if fed from the same bias current source then each tube should be working to amplify each half of the waveform the equally.
>
> ----- Original Message -----
> From: Alan
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, January 06, 2009 11:15 PM
> Subject: Re: [TS-520_820_530_830] Re: 6146B matched pair
>
>
> Hi,
>
> The differences between a matched pair and a non-matched pair when used in
> r.f. is very minimal if it can be detected at all. When used in audio, there
> are people who say that they can hear the difference between a matched pair
> and a non-matched pair of tubes. However, about 99 percent of the people
> can't tell the difference!
>
> ----- Original Message -----
> From: "boat.anchor" <boat.anchor@...>

> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Wednesday, January 07, 2009 5:08 PM
> Subject: [TS-520_820_530_830] Re: 6146B matched pair
>
> > Probably because it sounds nice.
> > It is a bit like a good looking lady wearing earrings. If they are a
> > matched pair they look good. If they are not matched but are an
equal
> > weight then she can still hold her head high.
> > Hope this makes sense
> > Barry
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "rickoreair"
> > <rickoreair@> wrote:
> >>
> >> I've been a ham for a long time and was always embarrased to
ask what
> >> the significance of a "matched pair" of 6146's was. I'm now old
> > enough
> >> to not worry about being embarrased, so can anyone tell me why I
> > should
> >> buy a matched pair of tubes vs just ordering two tubes. Thanks
> >>
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
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>
> --
>
> No virus found in this incoming message.
> Checked by AVG - http://www.avg.com
> Version: 8.0.176 / Virus Database: 270.10.3/1879 - Release Date:
1/6/2009
> 5:16 PM
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

19591. Re: 6146B matched pair

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 18:24:14 UTC
From: w5rkl
Topic: 19577 Message: 19591

The comment I made, "Most, if not all, RF final amplifiers..." was meant to mean transceiver and/or transmitter amplifiers. It is not directed at/to an AM DSB Class AB2, or any Class C amplifier. Class AB2 amplifiers draw grid current during a portion of the cycle but not the entire cycle and Class C amplifiers draw grid current during the entire cycle. Most tube RF amplifiers in all tube or hybrid transmitters/transceivers operate in Class AB1 where no grid current occurs during the entire cycle.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Kurt,
>
> Push-pull amplifiers do not operate the same as parallel amplifier do.
> Most, if not all, RF final amplifiers with two or more tubes, operate
> in "parallel" not "push-pull". Therefore, comparing Push-Pull to
> parallel amplifiers is like comparing Apples to Oranges, they're not
> the same. Biasing is the same, all tubes receive the same bias
> voltage, but operation, Push-Pull operate entirely different than
> parallel does.
>
> 73
> Mike
> W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Kurt Cathcart" <kurt@>
> wrote:
> >
> > I work on a lot of old guitar amp. In these circuits that are class
> a/b amplification in a design that is much like push/pull then matched
> tubes are desirable. In these circuits there is only one source for
> bias current and the goal is to have each tube have the same cut
> on/cut off points. If the tubes are matched and each tube if fed from
> the same bias current source then each tube should be working to
> amplify each half of the waveform the equally.
> >
> > ----- Original Message -----
> > From: Alan
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Tuesday, January 06, 2009 11:15 PM

> > Subject: Re: [TS-520_820_530_830] Re: 6146B matched pair
> >
> >
> > Hi,
> >
> > The differences between a matched pair and a non-matched pair when
> used in
> > r.f. is very minimal if it can be detected at all. When used in
> audio, there
> > are people who say that they can hear the difference between a
> matched pair
> > and a non-matched pair of tubes. However, about 99 percent of the
> people
> > can't tell the difference!
> >
> > ----- Original Message -----
> > From: "boat.anchor" <boat.anchor@>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Wednesday, January 07, 2009 5:08 PM
> > Subject: [TS-520_820_530_830] Re: 6146B matched pair
> >
> > > Probably because it sounds nice.
> > > It is a bit like a good looking lady wearing earrings. If they
are a
> > > matched pair they look good. If they are not matched but are an
> equal
> > > weight then she can still hold her head high.
> > > Hope this makes sense
> > > Barry
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "rickoreair"
> > > <rickoreair@> wrote:
> > >>
> > >> I've been a ham for a long time and was always embarrased to
> ask what
> > >> the significance of a "matched pair" of 6146's was. I'm now old
> > > enough
> > >> to not worry about being embarrased, so can anyone tell me why I
> > > should
> > >> buy a matched pair of tubes vs just ordering two tubes. Thanks
> > >>
> > >
> > >
> > >
> > > ------------------------------------
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >
> > >

> >
> > ---
> >
> > No virus found in this incoming message.
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> > Version: 8.0.176 / Virus Database: 270.10.3/1879 - Release Date:
> 1/6/2009
> > 5:16 PM
> >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

19592. Re: [TS-520_820_530_830] Re: TS-520S CW Filter Wanted

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 21:01:38 UTC
From: mark helinski
Topic: 19576 Message: 19592

i have one 50.00 plus shipping

--- On Wed, 1/7/09, freddhardeng <imtlog@gmail.com> wrote:

From: freddhardeng <imtlog@...>
Subject: [TS-520_820_530_830] Re: TS-520S CW Filter Wanted
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, January 7, 2009, 9:40 AM

W7RY de NX3G/

The filter you're looking happens to be on e-bay as I type this.
The bidding is at $24 something right now and there are 3 days till
the end of the auction. The URL is too long to post here, but it is
auction #190277979877 These filters pop up on e-bay pretty regularly.

If you search for 'cw filter' you will usually turn up 20 or more on
any given day. Search for 'kenwood cw filter' and you should hit one
or two weekly.

- Larry, NX3G

--- In TS-520_820_530_ 830@yahoogroups. com, "Jim W7RY" <w7ry@...> wrote:
>
> I'm looking for a CW filter for a TS-520S. Either a stock filter or
an aftermarket like INRAD or International Radio, (The old Fox Tango
folks).
>
> Thanks and 73
> Jim W7RY
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

19593. Re: 6146B matched pair

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 20:18:22 UTC
From: robert_glerum
Topic: 19577 Message: 19593

--- In TS-520_820_530_830@yahoogroups.com, "Kurt Cathcart" <kurt@...>
wrote:
>
> I work on a lot of old guitar amp. In these circuits that are class
a/b amplification in a design that is much like push/pull then matched
tubes are desirable. In these circuits there is only one source for
bias current and the goal is to have each tube have the same cut on/cut
off points. If the tubes are matched and each tube if fed from the
same bias current source then each tube should be working to amplify
each half of the waveform the equally.
>

I'm trying to understand this discussion. (Just arrived at the
amplicication classes in my full license study book!)

I use a TS-820s. I was thinking that the ssb mode uses AB class and AB
is push and pull and needs the matched pairs.
And the cw mode uses C class and there is no need of matched pairs?

Don't know what a parallel use of the finals means. How do they work
together?
Which class of amplification are these finals in?

73
Robert
PD4GLR

19594. Re: QRP with TS-820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 20:22:08 UTC
From: robert_glerum
Topic: 19561 Message: 19594

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Robert,
>
> The ALC on the 820 is on the 8 pin octal socket pin 6. Ground is on
> pin 1. The 820's ALC threshold voltage is approximately -6VDC.
>
> 73
> Mike
> W5RKL
>
Thanks Mike,

But this is the same one I connected my external VFO. Should I
disconnect it or is there a way to use both the external VFO and the
QRP option?

73
Robert
PD4GLR

19595. Re: QRP with TS-820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 20:28:22 UTC
From: robert_glerum
Topic: 19561 Message: 19595

--- In TS-520_820_530_830@yahoogroups.com, "james27613"
<james27613@...> wrote:
>
> hi,
>
> In file section of the group,
> go to Mods, then bottom of the page find
>
> Use ALC input to 'force' QRP operation.jpg
>
> 73 james ke4drn

Thanks, can I use it in combination with my external VFO which is also
connected?

73
Robert
PD4GLR

19596. TS - 830 and Desk Mic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 21:11:22 UTC
From: Dave Tipton
Topic: 19596 Message: 19596

I acquired a TS-830 and Desk Mic out of an estate. I fired it up, and it worked fine, with an output in the 100 watt range.

It needs some serious love though.

A few days ago, I fired it up and got virtually no output out of it. That said, I'm just going to sell it. I truthfully don't have time to do any work on it right now, and I'd like it to go to someone who'd like a project rig, and wants a bargain.

Receive still seems to be good.

The rig and a Desk Mic (A kenwood MC-something) are both available for $100 plus shipping.
73,
Dave, W5DMT

[Non-text portions of this message have been removed]

19597. Re: [TS-520_820_530_830] Re: QRP with TS-820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 21:15:37 UTC
From: ve3wej gmail
Topic: 19561 Message: 19597

i am confused on this thread, what does VFO have to do with running qrp, and why are we wiring the vfo to the 8 pin octal socket, and NOT the 9 pin tube type socket..

VE3WEJ
Dave Garber

10-X # 23465
echolink # 52852
irlp node 2202
email ve3wej@...
----- Original Message -----
From: robert_glerum
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, January 07, 2009 3:28 PM
Subject: [TS-520_820_530_830] Re: QRP with TS-820s

--- In TS-520_820_530_830@yahoogroups.com, "james27613"
<james27613@...> wrote:
>
> hi,
>
> In file section of the group,
> go to Mods, then bottom of the page find
>
> Use ALC input to 'force' QRP operation.jpg
>
> 73 james ke4drn

Thanks, can I use it in combination with my external VFO which is also connected?

73
Robert
PD4GLR

[Non-text portions of this message have been removed]

19598. Re: [TS-520_820_530_830] TS - 830 and Desk Mic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 21:15:09 UTC
From: John A
Topic: 19596 Message: 19598

Dave, can you give me an idea on shipping to 46947 Indiana?
Thanks!
John

On Jan 7, 2009, at 4:11 PM, Dave Tipton wrote:

> I acquired a TS-830 and Desk Mic out of an estate. I fired it up,
> and it worked fine, with an output in the 100 watt range.
>
> It needs some serious love though.
>
> A few days ago, I fired it up and got virtually no output out of
> it. That said, I'm just going to sell it. I truthfully don't have
> time to do any work on it right now, and I'd like it to go to
> someone who'd like a project rig, and wants a bargain.
>
> Receive still seems to be good.
>
> The rig and a Desk Mic (A kenwood MC-something) are both available
> for $100 plus shipping.
> 73,
> Dave, W5DMT

19599. Re: [TS-520_820_530_830] TS - 830 and Desk Mic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 21:19:41 UTC
From: N6WK
Topic: 19596 Message: 19599

I'll buy it.

Gordon
Dave Tipton wrote:
>
> I acquired a TS-830 and Desk Mic out of an estate. I fired it up, and
> it worked fine, with an output in the 100 watt range.
>
> It needs some serious love though.
>
> A few days ago, I fired it up and got virtually no output out of it.
> That said, I'm just going to sell it. I truthfully don't have time to
> do any work on it right now, and I'd like it to go to someone who'd
> like a project rig, and wants a bargain.
>
> Receive still seems to be good.
>
> The rig and a Desk Mic (A kenwood MC-something) are both available for
> $100 plus shipping.
> 73,
> Dave, W5DMT
>
> [Non-text portions of this message have been removed]
>
>

--
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19600. Re: QRP with TS-820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 21:19:56 UTC
From: w5rkl
Topic: 19561 Message: 19600

The external VFO does not connect to the TS-820's 8 pin socket on the
rear. It connects to the "9" pin socket.

I assume the external VFO is the Kenwood VFO-820.

By the way, why did you connect the VFO to the 8 pin socket? Did
someone tell you to do this? If so they told you wrong!

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "robert_glerum"
<pd4glr@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Robert,
> >
> > The ALC on the 820 is on the 8 pin octal socket pin 6. Ground is on
> > pin 1. The 820's ALC threshold voltage is approximately -6VDC.
> >
> > 73
> > Mike
> > W5RKL
> >
> Thanks Mike,
>
> But this is the same one I connected my external VFO. Should I
> disconnect it or is there a way to use both the external VFO and the
> QRP option?
>
> 73
> Robert
> PD4GLR
>

19601. Re: [TS-520_820_530_830] TS - 830 and Desk Mic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 21:22:12 UTC
From: Dave Tipton
Topic: 19596 Message: 19601

Get me a shipping address, and we'll get you a shipping quote.

Thanks!
Dave

From: N6WK <n6wk@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, January 7, 2009 3:19:41 PM
Subject: Re: [TS-520_820_530_830] TS - 830 and Desk Mic

I'll buy it.

Gordon
Dave Tipton wrote:
>
> I acquired a TS-830 and Desk Mic out of an estate. I fired it up, and
> it worked fine, with an output in the 100 watt range.
>
> It needs some serious love though.
>
> A few days ago, I fired it up and got virtually no output out of it.
> That said, I'm just going to sell it. I truthfully don't have time to
> do any work on it right now, and I'd like it to go to someone who'd
> like a project rig, and wants a bargain.
>
> Receive still seems to be good.
>
> The rig and a Desk Mic (A kenwood MC-something) are both available for
> $100 plus shipping.
> 73,
> Dave, W5DMT
>
> [Non-text portions of this message have been removed]
>
>

--
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[Non-text portions of this message have been removed]

19602. Re: QRP with TS-820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 21:22:46 UTC
From: w5rkl
Topic: 19561 Message: 19602

I have the same question, Dave. Who ever said to connect the VFO to the 8 pin socket did not know what they were talking about, especially if the external VFO is the VFO-820. This caused the person to do the wrong thing. Hopefully it didn't damage the remote VFO.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "ve3wej gmail" <ve3wej@...> wrote:
>
> i am confused on this thread, what does VFO have to do with running qrp, and why are we wiring the vfo to the 8 pin octal socket, and NOT the 9 pin tube type socket..
>
>
> VE3WEJ
> Dave Garber
>
> 10-X # 23465
> echolink # 52852
> irlp node 2202
> email ve3wej@...
> ----- Original Message -----
> From: robert_glerum
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, January 07, 2009 3:28 PM
> Subject: [TS-520_820_530_830] Re: QRP with TS-820s
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "james27613"
> <james27613@> wrote:
> > >
> > > hi,
> > >
> > > In file section of the group,
> > > go to Mods, then bottom of the page find
> > >
> > > Use ALC input to 'force' QRP operation.jpg
> > >
> > > 73 james ke4drn
>
> Thanks, can I use it in combination with my external VFO which is also

> connected?
>
> 73
> Robert
> PD4GLR
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

19603. Re: [TS-520_820_530_830] TS - 830 and Desk Mic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 21:23:17 UTC
From: Dave Tipton
Topic: 19596 Message: 19603

Sorry guys, didn't mean to do send that last one out to everyone... I guess the rig is sold.

[Non-text portions of this message have been removed]

19604. Re: [TS-520_820_530_830] TS - 830 and Desk Mic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 21:22:00 UTC
From: probe
Topic: 19596 Message: 19604

I'll take it. Is $50 for shipping OK? I live in Vancouver WA.
Steve, wz7e

----- Original Message -----
From: Dave Tipton
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, January 07, 2009 1:11 PM
Subject: [TS-520_820_530_830] TS - 830 and Desk Mic

I acquired a TS-830 and Desk Mic out of an estate. I fired it up, and it worked fine, with an output in the 100 watt range.

It needs some serious love though.

A few days ago, I fired it up and got virtually no output out of it. That said, I'm just going to sell it. I truthfully don't have time to do any work on it right now, and I'd like it to go to someone who'd like a project rig, and wants a bargain.

Receive still seems to be good.

The rig and a Desk Mic (A kenwood MC-something) are both available for $100 plus shipping.
73,
Dave, W5DMT

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

19605. Re: [TS-520_820_530_830] TS - 830 and Desk Mic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 21:28:19 UTC
From: John A
Topic: 19596 Message: 19605

I thought I'd got in there first, but I guess not........

John

On Jan 7, 2009, at 4:22 PM, Dave Tipton wrote:

> Get me a shipping address, and we'll get you a shipping quote.
>
> Thanks!
> Dave
>
>
>
>
> _____
> From: N6WK <n6wk@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, January 7, 2009 3:19:41 PM
> Subject: Re: [TS-520_820_530_830] TS - 830 and Desk Mic
>
>
> I'll buy it.
>
> Gordon
> Dave Tipton wrote:
>>
>> I acquired a TS-830 and Desk Mic out of an estate. I fired it up, and
>> it worked fine, with an output in the 100 watt range.
>>
>> It needs some serious love though.
>>
>> A few days ago, I fired it up and got virtually no output out of it.
>> That said, I'm just going to sell it. I truthfully don't have time to
>> do any work on it right now, and I'd like it to go to someone who'd
>> like a project rig, and wants a bargain.
>>
>> Receive still seems to be good.
>>
>> The rig and a Desk Mic (A kenwood MC-something) are both available
>> for
>> $100 plus shipping.
>> 73,
>> Dave, W5DMT
>>
>> [Non-text portions of this message have been removed]
>>

>>
>
> --
> E-Mail Disclaimer This communication and any documents, files, or
> previous e-mail messages attached to it constitute an electronic
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> Privacy Act, 18 USCA 2510.This communication may contain non-
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> distribution by others or forwarding without expressed permission
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>
>
> [Non-text portions of this message have been removed]
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

19606. Re: [TS-520_820_530_830] TS - 830 and Desk Mic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 21:32:27 UTC
From: N6WK
Topic: 19596 Message: 19606

Shipping is ;
Gordon Benjamin
310 Orion Ave.
Santa Ana, Ca 92707

John A wrote:
>
> I thought I'd got in there first, but I guess not.....
>
> John
>
> On Jan 7, 2009, at 4:22 PM, Dave Tipton wrote:
>
> > Get me a shipping address, and we'll get you a shipping quote.
> >
> > Thanks!
> > Dave
> >
> >
> >
> >
> > _____
> > From: N6WK <n6wk@... <mailto:n6wk%40n6wk.com>>
> > To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > Sent: Wednesday, January 7, 2009 3:19:41 PM
> > Subject: Re: [TS-520_820_530_830] TS - 830 and Desk Mic
> >
> >
> > I'll buy it.
> >
> > Gordon
> > Dave Tipton wrote:
> >>
> >> I acquired a TS-830 and Desk Mic out of an estate. I fired it up, and
> >> it worked fine, with an output in the 100 watt range.
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> >> It needs some serious love though.
> >>
> >> A few days ago, I fired it up and got virtually no output out of it.
> >> That said, I'm just going to sell it. I truthfully don't have time to
> >> do any work on it right now, and I'd like it to go to someone who'd
> >> like a project rig, and wants a bargain.
> >>
> >> Receive still seems to be good.

> >>
> >> The rig and a Desk Mic (A kenwood MC-something) are both available
> >> for
> >> $100 plus shipping.
> >> 73,
> >> Dave, W5DMT
> >>
> >> [Non-text portions of this message have been removed]
> >>
> >>
> >
> > --
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> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
>
>

--
E-Mail Disclaimer This communication and any documents, files, or previous e-mail messages attached to it constitute an electronic communication within the scope of the Electronic Communication Privacy Act, 18 USCA 2510.This communication may contain non-public, confidential, or legally privileged information intended for the sole use of the intended recipient(s). The unlawful interception, use or disclosure of such information is strictly prohibited under 18 USCA 2511. Any review, reliance, or distribution by others or forwarding without expressed permission is strictly prohibited. If you are not the intended recipient, please contact the sender and delete all copies.

19607. T599 finals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 22:03:27 UTC
From: Bill Barron
Topic: 19607 Message: 19607

Finally have the R599/T599 twins 'up' ... but no real
output power from T599. A new driver tube installed ...
but only low exciter output.. no meter deflections.
T599 will not tune-up....

Old S2001 tubes installed.
Can 6146Bs be used as replacements?

Obviously this thing needs a lotta work... but receiver seems ok!

Bill W1WAB

19608. Re: 6146B matched pair

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 22:21:00 UTC
From: w5rkl
Topic: 19577 Message: 19608

Robert,

Push-Pull is with 2 tubes, or transistors, A and B. During the first half of the cycle, tube/transistor A conducts producing output while Tube/transistor B does not conduct producing zero output. During the second half of the cycle, tube/transistor B conducts producing output while tube/transistor A does not conduct producing zero output. This creates a "push" and "pull" amplification affect between the amplifier tubes. Normally, not always, the input and output of a push-pull amplifier is transformer coupled from the driver to the push-pull input and from the push-pull output to the load. Notice I said "not always". Push-pull amplifiers operate 180 degrees out of phase from one another.

Parallel is when both tubes/transistors are connected in "parallel" and both tubes/transistors conduct and produce output at the same time regardless of the period of the cycle. The output from a parallel amplifier is combined together and fed to the load. Parallel amplifiers operate "in phase" with one another.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "robert_glerum" <pd4glr@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Kurt Cathcart" <kurt@> wrote:
> >
> > I work on a lot of old guitar amp. In these circuits that are class
> a/b amplification in a design that is much like push/pull then matched
> tubes are desirable. In these circuits there is only one source for
> bias current and the goal is to have each tube have the same cut on/cut
> off points. If the tubes are matched and each tube if fed from the
> same bias current source then each tube should be working to amplify
> each half of the waveform the equally.
> >
>
> I'm trying to understand this discussion. (Just arrived at the
> amplicication classes in my full license study book!)
>
> I use a TS-820s. I was thinking that the ssb mode uses AB class and AB
> is push and pull and needs the matched pairs.
> And the cw mode uses C class and there is no need of matched pairs?
>

> Don't know what a parallel use of the finals means. How do they work
> together?
> Which class of amplification are these finals in?
>
> 73
> Robert
> PD4GLR
>

19609. Re: T599 finals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 22:23:54 UTC
From: w5rkl
Topic: 19607 Message: 19609

If changing driver and final tubes does not increase output then there obviously are more problems.

I recommend making voltage checks at the power supply, visually inspect the filter capacitors for signs of aging (bulges, burnt equalizing resistors, etc) and visually inspecting the transmitter for signs of aging/cracking/burnt or otherwise failing components to start with. The manual can be downloaded from bama's mirror website.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Bill Barron" <wabarron@...> wrote:
>
> Finally have the R599/T599 twins 'up' ... but no real
> output power from T599. A new driver tube installed ...
> but only low exciter output.. no meter deflections.
> T599 will not tune-up....
>
> Old S2001 tubes installed.
> Can 6146Bs be used as replacements?
>
> Obviously this thing needs a lotta work... but receiver seems ok!
>
> Bill W1WAB
>

19610. Re: [TS-520_820_530_830] T599 finals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 22:26:26 UTC
From: Peter A Markavage
Topic: 19607 Message: 19610

Check the driver transistor (3SK22) to the 12BY7. Should be the only one
in a socket. If you get low to no drive in the tune up mode, especially
at the lower frequencies, this could be the problem. 6146B's will work
fine in the T599. I've been them in the rig since the 90's.

Great transmitter and sounds good in the AM mode.

Pete, wa2cwa

On Wed, 07 Jan 2009 22:03:27 -0000 "Bill Barron"
<wabarron@...> writes:
> Finally have the R599/T599 twins 'up' ... but no real
> output power from T599. A new driver tube installed ...
> but only low exciter output.. no meter deflections.
> T599 will not tune-up....
>
> Old S2001 tubes installed.
> Can 6146Bs be used as replacements?
>
> Obviously this thing needs a lotta work... but receiver seems ok!
>
> Bill W1WAB

Click to become an artist and quit your boring job.
http://thirdpartyoffers.juno.com/TGL2141/fc/PnY6rw2MJOgts2xDJ3OVzFPWBwKbgrKPk2WLC6WYmdV4staApn2J0/

19611. Re: [TS-520_820_530_830] Need 8 pin remote VFO interface cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 23:09:00 UTC
From: David Lammers
Topic: 19578 Message: 19611

Here's a picture of the connector also

From: David Lammers <ae4dl@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, January 7, 2009 5:58:39 PM
Subject: Re: [TS-520_820_530_830] Need 8 pin remote VFO interface cable

The Model # for the 9 pin connector is E05-0901-05 which I check with East Coast (Kenwood Parts) and that particular connector has been discontinued. I am looking for (2) also but have not found any anywhere. So if anyone else can tell me where to get one I would appreciate it also

Dave "Sparky" Lammers AE4DL

[Non-text portions of this message have been removed]

19612. Re: [TS-520_820_530_830] Need 8 pin remote VFO interface cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 22:58:39 UTC
From: David Lammers
Topic: 19578 Message: 19612

The Model # for the 9 pin connector is E05-0901-05 which I check with East Coast (Kenwood Parts) and that particular connector has been discontinued. I am looking for (2) also but have not found any anywhere. So if anyone else can tell me where to get one I would appreciate it also

Dave "Sparky" Lammers AE4DL

[Non-text portions of this message have been removed]

19613. Re: [TS-520_820_530_830] Re: QRP with TS-820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 23:29:39 UTC
From: ve3wej gmail
Topic: 19561 Message: 19613

but he was asking if he had to remove that vfo to change to the qrp mod??? was it...

VE3WEJ
Dave Garber

10-X # 23465
echolink # 52852
irlp node 2202
email ve3wej@...
----- Original Message -----
From: w5rkl
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, January 07, 2009 4:22 PM
Subject: [TS-520_820_530_830] Re: QRP with TS-820s

I have the same question, Dave. Who ever said to connect the VFO to
the 8 pin socket did not know what they were talking about, especially
if the external VFO is the VFO-820. This caused the person to do the
wrong thing. Hopefully it didn't damage the remote VFO.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "ve3wej gmail" <ve3wej@...>
wrote:
>
> i am confused on this thread, what does VFO have to do with running
qrp, and why are we wiring the vfo to the 8 pin octal socket, and NOT
the 9 pin tube type socket..
>
>
> VE3WEJ
> Dave Garber
>
> 10-X # 23465
> echolink # 52852
> irlp node 2202
> email ve3wej@...
> ----- Original Message -----
> From: robert_glerum
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, January 07, 2009 3:28 PM
> Subject: [TS-520_820_530_830] Re: QRP with TS-820s
>
>

> --- In TS-520_820_530_830@yahoogroups.com, "james27613"
> <james27613@> wrote:
> >
> > hi,
> >
> > In file section of the group,
> > go to Mods, then bottom of the page find
> >
> > Use ALC input to 'force' QRP operation.jpg
> >
> > 73 james ke4drn
>
> Thanks, can I use it in combination with my external VFO which is
also
> connected?
>
> 73
> Robert
> PD4GLR
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

19614. Re: [TS-520_820_530_830] Need 8 pin remote VFO interface cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 23:36:06 UTC
From: ve3wej gmail
Topic: 19578 Message: 19614

try e01-0903-05 2.13 each

VE3WEJ
Dave Garber

10-X # 23465
echolink # 52852
irlp node 2202
email ve3wej@...
----- Original Message -----
From: David Lammers
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, January 07, 2009 6:09 PM
Subject: Re: [TS-520_820_530_830] Need 8 pin remote VFO interface cable

Here's a picture of the connector also

_____
From: David Lammers <ae4dl@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, January 7, 2009 5:58:39 PM
Subject: Re: [TS-520_820_530_830] Need 8 pin remote VFO interface cable

The Model # for the 9 pin connector is E05-0901-05 which I check with East Coast (Kenwood Parts) and that particular connector has been discontinued. I am looking for (2) also but have not found any anywhere. So if anyone else can tell me where to get one I would appreciate it also

Dave "Sparky" Lammers AE4DL

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

19615. Re: Still need help with microphone

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 23:36:16 UTC
From: Peter
Topic: 19325 Message: 19615

I'm gonna jump in on the D-104 wiring subject. We are in luck and have the wiring from Pappy which helped a great deal. One additional question with respect to the D-104's. All mine have a plain gray wire cable. They are probably quite old and are as stiff as can be. Does anyone have ideas for a source of this plain type wire that is pretty flexible or a coil type cord that is not really expensive. The coil cords that I found were about $50 or $60. I guess we need 4 or 5 conductors. I also would like to wire up a UG-8 or TUG-8 to my TS-830s. Thanks very much, 73 Peter KC2RBX

--- In TS-520_820_530_830@yahoogroups.com, "Hiram" <daveleb55@...> wrote:
>
> Billy,
> According to the book, if you have a 4 pin mic connector, White goes
> to pin 1, the Sheild goes to pin 4, Blue goes to pin 3, and red goes
> to pin 2. Yellow and Black are not connected.
> This should be true of any of the hybrids, TS-520, 530, 820 & 830.
>
> Pappy Hiram
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Billy Dixson"
> <wellsia@> wrote:
> >
> >
> > Hi
> > Thanks everyone for the info on wiring up a D104 for my 530
> > After looking at the info I'm still alittle confused (don't take
much)
> > I guess it would be easy to ask which color mic wire to what pin
number
> > on the 530, just want to make sure I get it right I love my rig
to much
> > I don't want to screw it up.
> >
> > Thanks
> > KE7WMI
> >
>

19616. WANTED: PROJECT RIG: TS-530SP or TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 23:41:35 UTC
From: oldamateuradioman
Topic: 19616 Message: 19616

WANTED TO BUY for a WINTER PROJECT: TS-530SP or TS-830S xcvr to repair/restore for a winter project. Radio's faceplate and cabinet MUST be in very good condition and the radio COMPLETE with all parts. Digital display MUST be BRIGHT and WORKING properly. Any other electrical problem OK. Pls email full description with photos and a shipped price to w0ng@... or john.pancake@....
Payment will be made via PAYPAL. Tnx, Bill, w0ng, Colorado Springs, 80914.

19617. Re: [TS-520_820_530_830] Need 8 pin remote VFO interface cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-07 23:46:17 UTC
From: William S. White
Topic: 19578 Message: 19617

K4EAA to the rescue, again.
Scroll down to the "Kenwood Hard-to-Find-Parts" link:
http://www.k4eaa.com/

KC2PCF

----- Original Message -----
From: "David Lammers" <ae4dl@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, January 07, 2009 6:09 PM
Subject: Re: [TS-520_820_530_830] Need 8 pin remote VFO interface cable

Here's a picture of the connector also

19618. Re: [TS-520_820_530_830] Need 8 pin remote VFO interface cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-08 00:15:21 UTC
From: ve3wej gmail
Topic: 19578 Message: 19618

again, i will ask... note the subject 8 pin remote vfo !!!!!!

is he talking 9 pin remote vfo, and mis-counted or the remote 8 pin for the amp connection (i beleive it is)

VE3WEJ
Dave Garber

10-X # 23465
echolink # 52852
irlp node 2202
email ve3wej@...
----- Original Message -----
From: William S. White
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, January 07, 2009 6:46 PM
Subject: Re: [TS-520_820_530_830] Need 8 pin remote VFO interface cable

K4EAA to the rescue, again.
Scroll down to the "Kenwood Hard-to-Find-Parts" link:
http://www.k4eaa.com/

KC2PCF

----- Original Message -----
From: "David Lammers" <ae4dl@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, January 07, 2009 6:09 PM
Subject: Re: [TS-520_820_530_830] Need 8 pin remote VFO interface cable

Here's a picture of the connector also

[Non-text portions of this message have been removed]

19619. Re: [TS-520_820_530_830] Re: Still need help with microphone

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-08 00:17:58 UTC
From: ve3wej gmail
Topic: 19325 Message: 19619

the 6 (8) conductor cable i bought (skinnier d104 style) was only 4 or 5 dollars at a swap (NOS)

i probably have some old cb mikes with the heavier 4 wire, but color codes may not be astatic standard as per there manual...

and i do have a copy of astatic wiring booklet if that helps, and it is available in a pdf at astatic website

VE3WEJ
Dave Garber

10-X # 23465
echolink # 52852
irlp node 2202
email ve3wej@...
----- Original Message -----
From: Peter
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, January 07, 2009 6:36 PM
Subject: [TS-520_820_530_830] Re: Still need help with microphone

I'm gonna jump in on the D-104 wiring subject. We are in luck and
have the wiring from Pappy which helped a great deal. One additional
question with respect to the D-104's. All mine have a plain gray
wire cable. They are probably quite old and are as stiff as can be.
Does anyone have ideas for a source of this plain type wire that is
pretty flexible or a coil type cord that is not really expensive.
The coil cords that I found were about $50 or $60. I guess we need 4
or 5 conductors. I also would like to wire up a UG-8 or TUG-8 to my
TS-830s. Thanks very much, 73 Peter KC2RBX

--- In TS-520_820_530_830@yahoogroups.com, "Hiram" <daveleb55@...>
wrote:
>
> Billy,
> According to the book, if you have a 4 pin mic connector, White goes
> to pin 1, the Sheild goes to pin 4, Blue goes to pin 3, and red goes
> to pin 2. Yellow and Black are not connected.
> This should be true of any of the hybrids, TS-520, 530, 820 & 830.
>
> Pappy Hiram
>
>
>
>

> --- In TS-520_820_530_830@yahoogroups.com, "Billy Dixson"
> <wellsia@> wrote:
> >
> >
> > Hi
> > Thanks everyone for the info on wiring up a D104 for my 530
> > After looking at the info I'm still alittle confused (don't take
much)
> > I guess it would be easy to ask which color mic wire to what pin
number
> > on the 530, just want to make sure I get it right I love my rig
to much
> > I don't want to screw it up.
> >
> > Thanks
> > KE7WMI
> >
>

[Non-text portions of this message have been removed]

19620. Re: Need 8 pin remote VFO interface cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-08 01:39:04 UTC
From: mwusmm
Topic: 19578 Message: 19620

Just checked my VFO-230, it is 8-pin. I believe the kit listed on
K4EAA's website should work for you.

KA5HIA

--- In TS-520_820_530_830@yahoogroups.com, "ve3wej gmail" <ve3wej@...>
wrote:
>
> again, i will ask... note the subject 8 pin remote vfo !!!!!!
is he talking 9 pin remote vfo, and mis-counted or the remote 8 pin for
the amp connection (i beleive it is)
VE3WEJ
Dave Garber

From: William S. White
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, January 07, 2009 6:46 PM
Subject: Re: [TS-520_820_530_830] Need 8 pin remote VFO interface cable

K4EAA to the rescue, again.
Scroll down to the "Kenwood Hard-to-Find-Parts" link:
http://www.k4eaa.com/
KC2PCF

19621. Re: [TS-520_820_530_830] Need 8 pin remote VFO interface cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-08 01:20:25 UTC
From: David Lammers
Topic: 19578 Message: 19621

Thanks Dave but that is the female socket. I am looking for the male connector which is the E05-0901-05 which is discontinued. 73's

---
From: ve3wej gmail <ve3wej@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, January 7, 2009 6:36:06 PM
Subject: Re: [TS-520_820_530_830] Need 8 pin remote VFO interface cable

try e01-0903-05 2.13 each

VE3WEJ
Dave Garber

10-X # 23465
echolink # 52852
irlp node 2202
email ve3wej@...
----- Original Message -----
From: David Lammers
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Wednesday, January 07, 2009 6:09 PM
Subject: Re: [TS-520_820_ 530_830] Need 8 pin remote VFO interface cable

Here's a picture of the connector also

From: David Lammers <ae4dl@yahoo. com>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Wednesday, January 7, 2009 5:58:39 PM
Subject: Re: [TS-520_820_ 530_830] Need 8 pin remote VFO interface cable

The Model # for the 9 pin connector is E05-0901-05 which I check with East Coast (Kenwood Parts) and that particular connector has been discontinued. I am looking for (2) also but have not found any anywhere. So if anyone else can tell me where to get one I would appreciate it also

Dave "Sparky" Lammers AE4DL

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

19622. Re: QRP with TS-820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-08 02:07:33 UTC
From: james27613
Topic: 19561 Message: 19622

Hi Robert,

Yes, your you can use the external qrp circuit
with or without the external VFO.

the VFO uses the 9 pin socket on rear of the radio.

the qrp external circuit (aka 'mod') is attached to the
8 pin amplifier socket on rear of the radio.

73 ke4drn james

--- In TS-520_820_530_830@yahoogroups.com, "robert_glerum"
<pd4glr@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "james27613"
> <james27613@> wrote:
> >
> > hi,
> >
> > In file section of the group,
> > go to Mods, then bottom of the page find
> >
> > Use ALC input to 'force' QRP operation.jpg
> >
> > 73 james ke4drn
>
> Thanks, can I use it in combination with my external VFO which is also
> connected?
>
> 73
> Robert
> PD4GLR
>

19623. Re: [TS-520_820_530_830] Re: 6146B matched pair

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-08 04:37:07 UTC
From: Jim W7RY
Topic: 19577 Message: 19623

A choke has nothing to do with equalizing current.

Jim W7RY

----- Original Message -----
From: Gordon JC Pearce MM3YEQ
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, January 07, 2009 3:12 AM
Subject: Re: [TS-520_820_530_830] Re: 6146B matched pair

On Wed, 2009-01-07 at 17:15 +1300, Alan wrote:
> Hi,
>
> The differences between a matched pair and a non-matched pair when used in
> r.f. is very minimal if it can be detected at all. When used in audio, there
> are people who say that they can hear the difference between a matched pair
> and a non-matched pair of tubes. However, about 99 percent of the people
> can't tell the difference!

For new Eastern European-made EL34s, they are generally so good these days that any two you take out of the box will be as close as you'd get without very accurate matching. Whether or not this extends to 6146A/B valves I don't know.

As a relative n00b in the world of valve PAs, I'd say the crucial difference is that in an audio amp, the output valves are working in push-pull. Any mismatch here will result in one "half" of the waveform being amplified a little less than the other. You'd hear this as second-harmonic distortion, which is what most of that nice "warm valve sound" is!

In the PA used in the TS520, the two valves are run in parallel, with separate anode and grid chokes and separate cathode resistor. This will allow each valve to "do its own thing" with regards to anode current. Since they're not in push-pull, they will be just about as linear as their biasing allows them to be.

Gordon

[Non-text portions of this message have been removed]

19624. Re: [TS-520_820_530_830] Re: TS-520S CW Filter Wanted

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-08 04:39:07 UTC
From: Jim W7RY
Topic: 19576 Message: 19624

Negative. This is a filter for a TS-830. COMPLETELY different from the CW filter required for a TS-520.

73
Jim W7RY

----- Original Message -----
From: freddhardeng
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, January 07, 2009 7:40 AM
Subject: [TS-520_820_530_830] Re: TS-520S CW Filter Wanted

W7RY de NX3G/

The filter you're looking happens to be on e-bay as I type this.
The bidding is at $24 something right now and there are 3 days till
the end of the auction. The URL is too long to post here, but it is
auction #190277979877 These filters pop up on e-bay pretty regularly.

If you search for 'cw filter' you will usually turn up 20 or more on
any given day. Search for 'kenwood cw filter' and you should hit one
or two weekly.

- Larry, NX3G

--- In TS-520_820_530_830@yahoogroups.com, "Jim W7RY" <w7ry@...> wrote:
>
> I'm looking for a CW filter for a TS-520S. Either a stock filter or
an aftermarket like INRAD or International Radio, (The old Fox Tango
folks).
>
> Thanks and 73
> Jim W7RY
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

19625. Re: [TS-520_820_530_830] Re: 6146B matched pair

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-08 12:35:27 UTC
From: Kurt Cathcart
Topic: 19577 Message: 19625

In guitar amps the mismatch presented itself as a hum. Fender Guitar amps changed from a bias circuit to a hum balance circuit sometime in the mid 1960's. The reason for this is that it was too expensive for Fender to sort through all the tubes looking for matches. Instead, what they tried to do was to find a happy balance between the tubes to eliminate the hum. It is a very popular mod to change the amps back to the bias adjust circuit as it better utilizes matched tubes.

Then there is another camp of guitar audio buffs who like their tubes mismatched. They say that this creates desirable harmonic distortions that make the sound more "rock and Roll".

-Kurt
kr2c

You Said:
As a relative n00b in the world of valve PAs, I'd say the crucial
difference is that in an audio amp, the output valves are working in
push-pull. Any mismatch here will result in one "half" of the waveform
being amplified a little less than the other. You'd hear this as
second-harmonic distortion, which is what most of that nice "warm valve
sound" is!

[Non-text portions of this message have been removed]

19626. Re: 6146B matched pair

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-08 14:43:12 UTC
From: w5rkl
Topic: 19577 Message: 19626

Robert,

The Kenwood hybrid transceivers, all of them, and many other sideband transmitters and transceivers have a final RF amplifier that operates in Class AB1. The MODE switch does NOT change the final amplifier from Class AB1 to Class C. The final RF amplifiers in ALL Kenwood hybrids and many other sideband transmitter and transceivers operate in Class AB1 in ALL modes.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "robert_glerum" <pd4glr@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Kurt Cathcart" <kurt@> wrote:
> >
> > I work on a lot of old guitar amp. In these circuits that are class a/b amplification in a design that is much like push/pull then matched tubes are desirable. In these circuits there is only one source for bias current and the goal is to have each tube have the same cut on/cut off points. If the tubes are matched and each tube if fed from the same bias current source then each tube should be working to amplify each half of the waveform the equally.
> >
>
> I'm trying to understand this discussion. (Just arrived at the amplicication classes in my full license study book!)
>
> I use a TS-820s. I was thinking that the ssb mode uses AB class and AB is push and pull and needs the matched pairs.
> And the cw mode uses C class and there is no need of matched pairs?
>
> Don't know what a parallel use of the finals means. How do they work together?
> Which class of amplification are these finals in?
>
> 73
> Robert
> PD4GLR
>

19627. Filter YK88A Sell

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-08 12:03:14 UTC
From: radiovintage2000
Topic: 19627 Message: 19627

I have the following:
One Filter YK88A Kenwood , new in box
6Khz AM Filter

Please contact me direct at radiovintage2000@...

Frank

19628. RE: [TS-520_820_530_830] Re: Still need help with microphone

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-08 21:45:48 UTC
From: Walter Milton
Topic: 19325 Message: 19628

Peter ,

Try this gentleman, I purchased some parts to repair some D-104's from him.
I ordered two coiled mike cords and the price was reasonable.

Duane Gregg

Senior Technician

Customer Service

Omnitronics, LLC

440-593-1111 ext.212

I hope this helps .

Walt., KA2NJF

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Peter
Sent: Wednesday, January 07, 2009 6:36 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: Still need help with microphone

I'm gonna jump in on the D-104 wiring subject. We are in luck and
have the wiring from Pappy which helped a great deal. One additional
question with respect to the D-104's. All mine have a plain gray
wire cable. They are probably quite old and are as stiff as can be.
Does anyone have ideas for a source of this plain type wire that is
pretty flexible or a coil type cord that is not really expensive.
The coil cords that I found were about $50 or $60. I guess we need 4
or 5 conductors. I also would like to wire up a UG-8 or TUG-8 to my
TS-830s. Thanks very much, 73 Peter KC2RBX

--- In TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com> , "Hiram" <daveleb55@...>
wrote:
>
> Billy,
> According to the book, if you have a 4 pin mic connector, White goes
> to pin 1, the Sheild goes to pin 4, Blue goes to pin 3, and red goes
> to pin 2. Yellow and Black are not connected.
> This should be true of any of the hybrids, TS-520, 530, 820 & 830.
>
> Pappy Hiram
>
>

>
>
> --- In TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com> , "Billy Dixson"
> <wellsia@> wrote:
> >
> >
> > Hi
> > Thanks everyone for the info on wiring up a D104 for my 530
> > After looking at the info I'm still alittle confused (don't take
much)
> > I guess it would be easy to ask which color mic wire to what pin
number
> > on the 530, just want to make sure I get it right I love my rig
to much
> > I don't want to screw it up.
> >
> > Thanks
> > KE7WMI
> >
>

[Non-text portions of this message have been removed]

19629. low pass tvi filter causing high SWR

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-09 02:27:26 UTC
From: wvogel67
Topic: 19629 Message: 19629

I was beating my head against the wall trying to figure out why I was getting high swr readings. So I bypassed my low pass filter and swr was fine again.

I didn't think a filter could cause trouble like that.

Bill

19630. Re: [TS-520_820_530_830] low pass tvi filter causing high SWR

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-09 03:21:12 UTC
From: Adam Wade
Topic: 19629 Message: 19630

On Thursday, January 08, 2009 6:27 PM [Zulu -7],
wvogel67 <wvogel67@...> wrote:

> I was beating my head against the wall trying to figure out why I was
> getting high swr readings. So I bypassed my low pass filter and swr
> was fine again.

> I didn't think a filter could cause trouble like that.

All an antenna tuner is is a filter, actually. Filters change the phase of

the signal as you get to the "knee" of the filter, and an antenna tuner
changes the phase of a singlat to return out-of-phase voltage and current
to
proper phase so they don't travel backwards down the line any further (to
the coax for an antenna-mounted or "remote" tuner, or to the xmitr for a
tuner mounted at the rig/xmitr).

! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
! "I write down everything I want to remember. That way, instead !
! of spending a lot of time trying to remember what it is I wrote !
! down, I spend z time looking for the paper I wrote it down on." !
! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !

19631. Re: [TS-520_820_530_830] low pass tvi filter causing high SWR

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-09 04:07:20 UTC
From: Jim W7RY
Topic: 19629 Message: 19631

A filter is a tuned circuit. If components in the circuit are defective, the circuit is no longer tuned. Thus high SWR.

What kind of filter, what brand, what is the cut-off frequency? On what frequencies does it have high SWR, or better stated,high RETURN LOSS?

73
Jim W7RY

----- Original Message -----
From: Adam Wade
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, January 08, 2009 7:21 PM
Subject: Re: [TS-520_820_530_830] low pass tvi filter causing high SWR

On Thursday, January 08, 2009 6:27 PM [Zulu -7],
wvogel67 <wvogel67@...> wrote:

> I was beating my head against the wall trying to figure out why I was
> getting high swr readings. So I bypassed my low pass filter and swr
> was fine again.

> I didn't think a filter could cause trouble like that.

All an antenna tuner is is a filter, actually. Filters change the phase of

the signal as you get to the "knee" of the filter, and an antenna tuner
changes the phase of a singlat to return out-of-phase voltage and current
to
proper phase so they don't travel backwards down the line any further (to
the coax for an antenna-mounted or "remote" tuner, or to the xmitr for a
tuner mounted at the rig/xmitr).

! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
! "I write down everything I want to remember. That way, instead !
! of spending a lot of time trying to remember what it is I wrote !
! down, I spend z time looking for the paper I wrote it down on." !
! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !

[Non-text portions of this message have been removed]

19632. Re: Still need help with microphone

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-09 04:07:20 UTC
From: Rich Jones
Topic: 19325 Message: 19632

Next time your at a ham swapmeet, but one of those cheap CB mikes (usually under $5.00) with the coiled cord that almost always finds its way to a table or too. I have even picked them out of "FREE" boxes. I use such a cable on my D-104 and I cut it short so I don't have a mile of unwanted cord on the desk. Good luck, Rich

[Non-text portions of this message have been removed]

19633. Re: [TS-520_820_530_830] low pass tvi filter causing high SWR

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-09 10:33:41 UTC
From: Adam Wade
Topic: 19629 Message: 19633

On Thursday, January 08, 2009 8:07 PM [Zulu -7],
Jim W7RY <w7ry@...> wrote:

> A filter is a tuned circuit. If components in the circuit are
> defective, the circuit is no longer tuned. Thus high SWR.

Whether they are defective or not, check the SWR on a filter in the "knee"
with a 50 ohm carbon resistor across the output. I promise you you won't
see 1.0:1

! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
! "I write down everything I want to remember. That way, instead !
! of spending a lot of time trying to remember what it is I wrote !
! down, I spend z time looking for the paper I wrote it down on." !
! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !

19634. Re: [TS-520_820_530_830] Re: TS-520S CW Filter Wanted

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-09 16:00:23 UTC
From: Jim W7RY
Topic: 19576 Message: 19634

Let me think about it.

Thanks
Jim
W7RY

----- Original Message -----
From: mark helinski
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, January 07, 2009 1:01 PM
Subject: Re: [TS-520_820_530_830] Re: TS-520S CW Filter Wanted

i have one 50.00 plus shipping

--- On Wed, 1/7/09, freddhardeng <imtlog@...> wrote:

From: freddhardeng <imtlog@...>
Subject: [TS-520_820_530_830] Re: TS-520S CW Filter Wanted
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, January 7, 2009, 9:40 AM

W7RY de NX3G/

The filter you're looking happens to be on e-bay as I type this.
The bidding is at $24 something right now and there are 3 days till
the end of the auction. The URL is too long to post here, but it is
auction #190277979877 These filters pop up on e-bay pretty regularly.

If you search for 'cw filter' you will usually turn up 20 or more on
any given day. Search for 'kenwood cw filter' and you should hit one
or two weekly.

- Larry, NX3G

--- In TS-520_820_530_ 830@yahoogroups. com, "Jim W7RY" <w7ry@...> wrote:
>
> I'm looking for a CW filter for a TS-520S. Either a stock filter or
an aftermarket like INRAD or International Radio, (The old Fox Tango
folks).
>
> Thanks and 73
> Jim W7RY
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

19635. Re: [TS-520_820_530_830] Re: TS-520S CW Filter Wanted

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-09 16:30:03 UTC
From: martin
Topic: 19576 Message: 19635

Hi Guys. $50.00 is not a bad price. I see the YK-88C filters going for around $75.00 (plus shipping)on ebay lately. This is the 500Hz CW filter. I don't see a YK-88CN (the 270Hz one)very often.

Good luck with your decision Jim.

TTYL

Jim W7RY wrote:
> Let me think about it.
>
> Thanks
> Jim
> W7RY
>
> ----- Original Message -----
> From: mark helinski
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, January 07, 2009 1:01 PM
> Subject: Re: [TS-520_820_530_830] Re: TS-520S CW Filter Wanted
>
>
> i have one 50.00 plus shipping
>
> --- On Wed, 1/7/09, freddhardeng <imtlog@...> wrote:
>
> From: freddhardeng <imtlog@...>
> Subject: [TS-520_820_530_830] Re: TS-520S CW Filter Wanted
> To: TS-520_820_530_830@yahoogroups.com
> Date: Wednesday, January 7, 2009, 9:40 AM
>
> W7RY de NX3G/
>
> The filter you're looking happens to be on e-bay as I type this.
> The bidding is at $24 something right now and there are 3 days till
> the end of the auction. The URL is too long to post here, but it is
> auction #190277979877 These filters pop up on e-bay pretty regularly.
>
> If you search for 'cw filter' you will usually turn up 20 or more on
> any given day. Search for 'kenwood cw filter' and you should hit one
> or two weekly.
>
> - Larry, NX3G
>
> --- In TS-520_820_530_ 830@yahoogroups. com, "Jim W7RY" <w7ry@...> wrote:
> >

> > I'm looking for a CW filter for a TS-520S. Either a stock filter or
> an aftermarket like INRAD or International Radio, (The old Fox Tango
> folks).
> >
> > Thanks and 73
> > Jim W7RY
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
> [Non-text portions of this message have been removed]
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to: www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at
http://www.defectivebydesign.org/what_is_drm"

19636. Narrow Filters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-09 17:01:50 UTC
From: martin
Topic: 19576 Message: 19636

Hi Guys. I just got a TS-130SE (via eBay) that is in very good condition, and has the YK-88SN SSB filter, and the YK-88C CW filter. While I like my TS-530S, I wanted a radi that coud operate on a deep cycle battery for those pesky power outages and Emergency operation.

This is the second Kenwood radio that I have owned with the narrow SSB filter, (the first was a TS-430S)and it is very useful at times. I am not a CW op, but the CW filter seems to be pretty effective too. I would recommend the narrow SSB filter to anyone. If you have never used one, you don't realize how much it can help (along with the IF shift)in crowded band conditions

Sooner or later (when I can afford it) I will be looking for a YK-88SN for the TS-530S as well. Now if we could just get some decent weather so I can get my 80M dipole moved to a better and higher location, and get my Hustler 5BTV and 2M J-Pole up...

TTYL

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to: www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at http://www.defectivebydesign.org/what_is_drm"

19637. TS-180 WARC mod

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-09 19:37:28 UTC
From: Ron
Topic: 19637 Message: 19637

This morning I acquired a Kenwood CK-18 coil parts kit for TS-180 WARC bands mod. Does anyone know anything about these kits? I "think" all the parts are there. No instructions or parts list came with it so I'll have to find a way to inventory the kit. It will be going up for sale as soon as I find out if it is complete.
Thanks Ron/W5RCP

19638. Re: [TS-520_820_530_830] TS-180 WARC mod

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-09 20:42:03 UTC
From: N6WK
Topic: 19637 Message: 19638

Ron,
Keep us posted.
I might be interested in it.
I work on the 180's now and then
73,
Gordon

Ron wrote:
>
> This morning I acquired a Kenwood CK-18 coil parts kit for TS-180 WARC
> bands mod. Does anyone know anything about these kits? I "think" all
> the parts are there. No instructions or parts list came with it so I'll
> have to find a way to inventory the kit. It will be going up for sale
> as soon as I find out if it is complete.
> Thanks Ron/W5RCP
>
>
> Messages in this topic
> <http://groups.yahoo.com/group/TS-520_820_530_830/message/19637;_ylc=X3oDMTM2NzcxNXBnBF9
TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzE5NjM3BHNlYwNmdHIEc2xrA
3Z0cGMEc3RpbWUDMTIzMTUyOTg1MgR0cGNJZAMxOTYzNw-->
> (1)
> <http://groups.yahoo.com/group/TS-520_820_530_830/post;_ylc=X3oDMTJxZzc1MGlzBF9TAzk3MzU5
NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzE5NjM3BHNlYwNmdHIEc2xrA3JwbHkEc3
RpbWUDMTIzMTUyOTg1Mg--?act=reply&messageNum=19637>

19639. Availability of DK3 Screwdriver Antenna

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-10 13:46:13 UTC
From: Howard Weinstein
Topic: 19639 Message: 19639

Gentlemen,

I am interested in procuring a DK3 Screwdriver Antenna and have been lead to believe that they are no longer in production or available as Don W6AAQ is in retirement... Is this true?

Is the DK3 the best screwdriver antenna available? If not - what is the highest quality screwdriver antenna available on the market today?

de Howard K3HW

19640. TS-180 WARC Kit Available

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-10 15:36:37 UTC
From: Ron
Topic: 19640 Message: 19640

Thanks to Wim (he sent me the manual)I was able to inventory the parts in the WARC kit. There are several un-opened bags and all the parts are there. After some research I find that this kit is extremely rare which leads me to believe it has some value. I'm going to put it up on Ebay this afternoon for $100.00 If anyone on this site wants it I will sell it for $90.00 and free shipping.
Thanks Ron/W5RCP

19641. Re: QRP with TS-820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-09 16:08:14 UTC
From: robert_glerum
Topic: 19561 Message: 19641

Dear OM,

My mistake, my mistake!
I thought the remote connection was the same as the VFO connection,
which wasn't!

Is a plug of the remote control still available or should I connect
the wires to the socket directly?

73
Robert
PD4GLR

--- In TS-520_820_530_830@yahoogroups.com, "ve3wej gmail"
<ve3wej@...> wrote:
>
> but he was asking if he had to remove that vfo to change to the qrp
mod??? was it...
>
> VE3WEJ
> Dave Garber
>
> 10-X # 23465
> echolink # 52852
> irlp node 2202
> email ve3wej@...
> ----- Original Message -----
> From: w5rkl
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, January 07, 2009 4:22 PM
> Subject: [TS-520_820_530_830] Re: QRP with TS-820s
>
>
> I have the same question, Dave. Who ever said to connect the VFO
to
> the 8 pin socket did not know what they were talking about,
especially
> if the external VFO is the VFO-820. This caused the person to do
the
> wrong thing. Hopefully it didn't damage the remote VFO.
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com, "ve3wej gmail"

<ve3wej@>
> wrote:
> >
> > i am confused on this thread, what does VFO have to do with
running
> qrp, and why are we wiring the vfo to the 8 pin octal socket, and
NOT
> the 9 pin tube type socket..
> >
> >
> > VE3WEJ
> > Dave Garber
> >
> > 10-X # 23465
> > echolink # 52852
> > irlp node 2202
> > email ve3wej@
> > ----- Original Message -----
> > From: robert_glerum
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Wednesday, January 07, 2009 3:28 PM
> > Subject: [TS-520_820_530_830] Re: QRP with TS-820s
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "james27613"
> > <james27613@> wrote:
> > >
> > > hi,
> > >
> > > In file section of the group,
> > > go to Mods, then bottom of the page find
> > >
> > > Use ALC input to 'force' QRP operation.jpg
> > >
> > > 73 james ke4drn
> >
> > Thanks, can I use it in combination with my external VFO which
is
> also
> > connected?
> >
> > 73
> > Robert
> > PD4GLR
> >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]

> >
>
>
>
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> [Non-text portions of this message have been removed]
>

19642. Filter mode relationship

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-10 01:46:33 UTC
From: ko4kl
Topic: 19642 Message: 19642

I am looking for a CW filter for my TS-520S. While waiting to find one I looked at the installation procedure and the schematic. It looks to me that when the option wire is moved from the SSB filter to the CW filter that filter will be used when mode switch is in the CW, USB or LSB position. Shouldn't the wiring be such that the SSB filter is selected in the USB and LSB modes and the CW filter in the CW mode? This of course would require a lead from the mode switch to each filter. I can't believe the wiring and option as it is in the schematic so I must be missing something - old age does that believe me!

19643. Tun on mode switch not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-11 12:02:11 UTC
From: markcurry65
Topic: 19643 Message: 19643

The TUN function on my TS-820 dose not seem to work at all.
I have followed the manual and no success.Can anyone
help with this problem.Radio itself works fine and I can still
operate all bands without it but it would be nice to have it working.
Thanks
Mark
VK4MON

19644. Re: Availability of DK3 Screwdriver Antenna

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-11 12:14:36 UTC
From: markcurry65
Topic: 19639 Message: 19644

Its not a DK3 Screwdriver but a friend of mine homebrews screwdriver antennas if you like I can find out if he would be able to supply you with some imformation on building your own.

Regards
Mark
VK4MON

19645. TS-520S Manual

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-11 12:34:21 UTC
From: Tate Antrim
Topic: 8398 Message: 19645

I have a surplus TS520S User Manual (not original - a very good copy though) that I'd like to give away (includes mailing) free. If you need one let me know.

KD8HJA

[Non-text portions of this message have been removed]

19646. Re: [TS-520_820_530_830] Filter mode relationship

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-11 13:45:21 UTC
From: martin
Topic: 19642 Message: 19646

Hi. With only the SSB filter, the radio uses the SSB filter on both SSB and CW. When you install the CW filter and move the wire to the CW terminal, the radio will use the SSB filter for SSB, and the CW filter for CW.

TTYL

ko4kl wrote:
> I am looking for a CW filter for my TS-520S. While waiting to find one
> I looked at the installation procedure and the schematic. It looks to
> me that when the option wire is moved from the SSB filter to the CW
> filter that filter will be used when mode switch is in the CW, USB or
> LSB position. Shouldn't the wiring be such that the SSB filter is
> selected in the USB and LSB modes and the CW filter in the CW mode?
> This of course would require a lead from the mode switch to each
> filter. I can't believe the wiring and option as it is in the schematic
> so I must be missing something - old age does that believe me!
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to: www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at
http://www.defectivebydesign.org/what_is_drm"

19647. Re: [TS-520_820_530_830] Tun on mode switch not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-11 13:46:20 UTC
From: Ken Winterling
Topic: 19643 Message: 19647

Mark,

If the rig can be tuned up in CW mode but there is no response in Tune mode then check R6 and R5 on the HV board, X43-1110-00. Both are 56K. R6 is probably open or very high in resistance.

Ken, WA2LBI

On Sun, Jan 11, 2009 at 07:02, markcurry65 <markcurry65@...> wrote:

> The TUN function on my TS-820 dose not seem to work at all.
> I have followed the manual and no success.Can anyone
> help with this problem.Radio itself works fine and I can still
> operate all bands without it but it would be nice to have it working.
> Thanks
> Mark
> VK4MON
>
>

[Non-text portions of this message have been removed]

19648. Re: [TS-520_820_530_830] Re: Availability of DK3 Screwdriver Antenna

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-11 13:57:14 UTC
From: Don Thomas
Topic: 19639 Message: 19648

I would be interested in the information also.

Don T. // K5ZRQ

--- On Sun, 1/11/09, markcurry65 <markcurry65@...> wrote:

From: markcurry65 <markcurry65@...>
Subject: [TS-520_820_530_830] Re: Availability of DK3 Screwdriver Antenna
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, January 11, 2009, 6:14 AM

Its not a DK3 Screwdriver but a friend of mine homebrews screwdriver
antennas if you like I can find out if he would be able to supply you
with some imformation on building your own.

Regards
Mark
VK4MON

[Non-text portions of this message have been removed]

19649. Re: TS-520S Manual

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-11 14:15:01 UTC
From: w5rkl
Topic: 8398 Message: 19649

Tate,

If the manual is still available, I will take it. Let me know through e-mail, I'm good on qrz.com.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Tate Antrim" <kd8hja@...> wrote:
>
> I have a surplus TS520S User Manual (not original - a very good copy though)
> that I'd like to give away (includes mailing) free. If you need one let me
> know.
>
>
>
> KD8HJA
>
>
>
> [Non-text portions of this message have been removed]
>

19650. RE: [TS-520_820_530_830] TS-520S Manual

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-11 14:16:55 UTC
From: Tate Antrim
Topic: 8398 Message: 19650

Manual has been snapped up.

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Tate Antrim
Sent: Sunday, January 11, 2009 7:34 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS-520S Manual

I have a surplus TS520S User Manual (not original - a very good copy though)
that I'd like to give away (includes mailing) free. If you need one let me
know.

KD8HJA

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

19651. Re: [TS-520_820_530_830] Re: QRP with TS-820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-11 14:20:03 UTC
From: ve3wej gmail
Topic: 19561 Message: 19651

i dont know about kenwood parts, but they should be a standard 8 pin octal plug, and I have seen them at wholesalers, try searching the net at electronic wholesalers. check also heathkit and yaesu shops, they used the socket as well...

VE3WEJ
Dave Garber

10-X # 23465
echolink # 52852
irlp node 2202
email ve3wej@...
----- Original Message -----
From: robert_glerum
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 09, 2009 11:08 AM
Subject: [TS-520_820_530_830] Re: QRP with TS-820s

Dear OM,

My mistake, my mistake!
I thought the remote connection was the same as the VFO connection,
which wasn't!

Is a plug of the remote control still available or should I connect
the wires to the socket directly?

73
Robert
PD4GLR

--- In TS-520_820_530_830@yahoogroups.com, "ve3wej gmail"
<ve3wej@...> wrote:
>
> but he was asking if he had to remove that vfo to change to the qrp
mod??? was it...
>
> VE3WEJ
> Dave Garber
>
> 10-X # 23465
> echolink # 52852
> irlp node 2202
> email ve3wej@...
> ----- Original Message -----
> From: w5rkl
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, January 07, 2009 4:22 PM

> Subject: [TS-520_820_530_830] Re: QRP with TS-820s
>
>
> I have the same question, Dave. Who ever said to connect the VFO
to
> the 8 pin socket did not know what they were talking about,
especially
> if the external VFO is the VFO-820. This caused the person to do
the
> wrong thing. Hopefully it didn't damage the remote VFO.
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com, "ve3wej gmail"
<ve3wej@>
> wrote:
> >
> > i am confused on this thread, what does VFO have to do with
running
> qrp, and why are we wiring the vfo to the 8 pin octal socket, and
NOT
> the 9 pin tube type socket..
> >
> >
> > VE3WEJ
> > Dave Garber
> >
> > 10-X # 23465
> > echolink # 52852
> > irlp node 2202
> > email ve3wej@
> > ----- Original Message -----
> > From: robert_glerum
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Wednesday, January 07, 2009 3:28 PM
> > Subject: [TS-520_820_530_830] Re: QRP with TS-820s
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "james27613"
> > <james27613@> wrote:
> > >
> > > hi,
> > >
> > > In file section of the group,
> > > go to Mods, then bottom of the page find
> > >
> > > Use ALC input to 'force' QRP operation.jpg
> > >

> > > 73 james ke4drn
> >
> > Thanks, can I use it in combination with my external VFO which
is
> also
> > connected?
> >
> > 73
> > Robert
> > PD4GLR
> >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
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>
> [Non-text portions of this message have been removed]
>

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19652. Re: [TS-520_820_530_830] Re: QRP with TS-820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-11 14:23:19 UTC
From: ve3wej gmail
Topic: 19561 Message: 19652

http://www.tubedepot.com/sk-8base.html

VE3WEJ
Dave Garber

10-X # 23465
echolink # 52852
irlp node 2202
email ve3wej@...
----- Original Message -----
From: robert_glerum
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 09, 2009 11:08 AM
Subject: [TS-520_820_530_830] Re: QRP with TS-820s

Dear OM,

My mistake, my mistake!
I thought the remote connection was the same as the VFO connection,
which wasn't!

Is a plug of the remote control still available or should I connect
the wires to the socket directly?

73
Robert
PD4GLR

--- In TS-520_820_530_830@yahoogroups.com, "ve3wej gmail"
<ve3wej@...> wrote:
>
> but he was asking if he had to remove that vfo to change to the qrp
mod??? was it...
>
> VE3WEJ
> Dave Garber
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> 10-X # 23465
> echolink # 52852
> irlp node 2202
> email ve3wej@...
> ----- Original Message -----
> From: w5rkl
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, January 07, 2009 4:22 PM
> Subject: [TS-520_820_530_830] Re: QRP with TS-820s
>

>
> I have the same question, Dave. Who ever said to connect the VFO
to
> the 8 pin socket did not know what they were talking about,
especially
> if the external VFO is the VFO-820. This caused the person to do
the
> wrong thing. Hopefully it didn't damage the remote VFO.
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com, "ve3wej gmail"
<ve3wej@>
> wrote:
> >
> > i am confused on this thread, what does VFO have to do with
running
> qrp, and why are we wiring the vfo to the 8 pin octal socket, and
NOT
> the 9 pin tube type socket..
> >
> >
> > VE3WEJ
> > Dave Garber
> >
> > 10-X # 23465
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> > irlp node 2202
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> > ----- Original Message -----
> > From: robert_glerum
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Wednesday, January 07, 2009 3:28 PM
> > Subject: [TS-520_820_530_830] Re: QRP with TS-820s
> > >
> > >
> > --- In TS-520_820_530_830@yahoogroups.com, "james27613"
> > <james27613@> wrote:
> > > >
> > > > hi,
> > > >
> > > > In file section of the group,
> > > > go to Mods, then bottom of the page find
> > > >
> > > > Use ALC input to 'force' QRP operation.jpg
> > > >
> > > > 73 james ke4drn
> > >

> > Thanks, can I use it in combination with my external VFO which
is
> also
> > connected?
> >
> > 73
> > Robert
> > PD4GLR
> >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
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19653. Re: [TS-520_820_530_830] Re: Availability of DK3 Screwdriver Antenna

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-11 14:46:18 UTC
From: Ron Pearson
Topic: 19639 Message: 19653

I would sure like to have that info....
Ron/W5RCP

100% CW, 100% of the Time
Fists#6259 & cc#1775, ARS#1799, FP#1047, NAQCC#483, SKCC#2922,
QRP-ARCI#13328, Houston QRP Club, HQRP Fists#11025, KCARC/Abilene, Zombie#839

From: markcurry65 <markcurry65@yahoo.com>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, January 11, 2009 6:14:36 AM
Subject: [TS-520_820_530_830] Re: Availability of DK3 Screwdriver Antenna

Its not a DK3 Screwdriver but a friend of mine homebrews screwdriver
antennas if you like I can find out if he would be able to supply you
with some imformation on building your own.

Regards
Mark
VK4MON

Yahoo! Groups Links

[Non-text portions of this message have been removed]

19654. Re: [TS-520_820_530_830] Re: Availability of DK3 Screwdriver Antenna

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-11 17:55:16 UTC
From: Howard Weinstein
Topic: 19639 Message: 19654

Mark,

Would love to have information on building my own... I do have access to a decent machine shop...

Thank you es 73 de Howard Weinstein K3HW

--- On Sun, 1/11/09, markcurry65 <markcurry65@...> wrote:

> From: markcurry65 <markcurry65@...>
> Subject: [TS-520_820_530_830] Re: Availability of DK3 Screwdriver Antenna
> To: TS-520_820_530_830@yahoogroups.com
> Date: Sunday, January 11, 2009, 7:14 AM
> Its not a DK3 Screwdriver but a friend of mine homebrews
> screwdriver
> antennas if you like I can find out if he would be able to
> supply you
> with some imformation on building your own.
>
>
> Regards
> Mark
> VK4MON

19655. Re: [TS-520_820_530_830] Re: Availability of DK3 Screwdriver Antenna

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-11 17:55:15 UTC
From: Howard Weinstein
Topic: 19639 Message: 19655

Mark,

Would love to have information on building my own... I do have access to a decent machine shop...

Thank you es 73 de Howard Weinstein K3HW

--- On Sun, 1/11/09, markcurry65 <markcurry65@...> wrote:

> From: markcurry65 <markcurry65@...>
> Subject: [TS-520_820_530_830] Re: Availability of DK3 Screwdriver Antenna
> To: TS-520_820_530_830@yahoogroups.com
> Date: Sunday, January 11, 2009, 7:14 AM
> Its not a DK3 Screwdriver but a friend of mine homebrews
> screwdriver
> antennas if you like I can find out if he would be able to
> supply you
> with some imformation on building your own.
>
>
> Regards
> Mark
> VK4MON

19656. Re: [TS-520_820_530_830] Tun on mode switch not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-11 17:58:41 UTC
From: N6WK
Topic: 19643 Message: 19656

Check R5 and R6 on the HV board. they go open and you will lose the Tune function.
they are both 56k resistors.

73,
Gordon

markcurry65 wrote:
>
> The TUN function on my TS-820 dose not seem to work at all.
> I have followed the manual and no success.Can anyone
> help with this problem.Radio itself works fine and I can still
> operate all bands without it but it would be nice to have it working.
> Thanks
> Mark
> VK4MON
>
>
> Messages in this topic
> <http://groups.yahoo.com/group/TS-520_820_530_830/message/19643;_ylc=X3oDMTM2MHN1NnU5BF9TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzE5NjQzBHNlYwNmdHIEc2xrA3Z0cGMEc3RpbWUDMTIzMTY3NTMzNQR0cGNJZAMxOTY0Mw-->
> (1)
> <http://groups.yahoo.com/group/TS-520_820_530_830/post;_ylc=X3oDMTJxOGRyN3Q3BF9TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzE5NjQzBHNlYwNmdHIEc2xrA3JwbHkEc3RpbWUDMTIzMTY3NTMzNQ--?act=reply&messageNum=19643>
all copies.

19657. Microphone for TS-530S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-11 19:24:57 UTC
From: Steve
Topic: 19657 Message: 19657

Hello All,

Just picked up an MC-50 microphone for my TS-530S. According to the manual the microphone impedance range for the TS-530S is 500ohms to 50Kohms. The MC-50 can be set for either 600ohms or 50Kohms. Any advice on which MC-50 setting would be better to use? I will be playing with it on the air today, so should get some input there, but thought this group might have some good insight.

Thanks and 73,

Steve K7QHU

19658. RE: [TS-520_820_530_830] Microphone for TS-530S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-11 19:45:15 UTC
From: Tate Antrim
Topic: 19657 Message: 19658

I vote for Hi-Z!

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Steve
Sent: Sunday, January 11, 2009 2:25 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Microphone for TS-530S

Hello All,

Just picked up an MC-50 microphone for my TS-530S. According to
the manual the microphone impedance range for the TS-530S is 500ohms
to 50Kohms. The MC-50 can be set for either 600ohms or 50Kohms. Any
advice on which MC-50 setting would be better to use? I will be
playing with it on the air today, so should get some input there, but
thought this group might have some good insight.

Thanks and 73,

Steve K7QHU

[Non-text portions of this message have been removed]

19659. TS 520 drive voltages?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-11 22:18:09 UTC
From: kg4kri
Topic: 19659 Message: 19659

Hello, all
I am restoring a ts 520se, and I have run into some trouble with the driver stage.On my scope, I am only getting about 1.5 volts to the 6146 grids from the driver. All tube voltages check out. What is the range of proper drive that I should expect to see at the 6146 grids? Also, what kind of drive should I see going to the 12by7? I have replaced all tubes with no change in output.
On a different note, I have noticed that the hv plate supply is running high at about 950 volts. This cause arcing in one set of replacement tubes I tried. Is there a way to lower the b+? The filter caps are a little aged, but they are still within specs.
Any help with these questions is appreciated.

Daniel,KG4KRI
--... ...--

19660. Re: TS 520 drive voltages?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-12 00:18:31 UTC
From: Michael
Topic: 19659 Message: 19660

I don't know if this is relevant but my B+ is 950 volts on my TS-530S
and it works fine.

--- In TS-520_820_530_830@yahoogroups.com, "kg4kri" <kg4kri@...> wrote:
>
> Hello, all
> I am restoring a ts 520se, and I have run into some trouble with the
> driver stage.On my scope, I am only getting about 1.5 volts to the
> 6146 grids from the driver. All tube voltages check out. What is the
> range of proper drive that I should expect to see at the 6146 grids?
> Also, what kind of drive should I see going to the 12by7? I have
> replaced all tubes with no change in output.
> On a different note, I have noticed that the hv plate supply is
> running high at about 950 volts. This cause arcing in one set of
> replacement tubes I tried. Is there a way to lower the b+? The filter
> caps are a little aged, but they are still within specs.
> Any help with these questions is appreciated.
>
> Daniel,KG4KRI
> --... ...--
>

19661. Re: TS 520 drive voltages?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-12 00:39:37 UTC
From: w5rkl
Topic: 19659 Message: 19661

RF to the driver should be about 2 volts and to the final about 46 volts. These ratings are taken from the 520 service manual's "Transmitter Section Level Diagram". Although there is a difference between the 520 and the 520SE, I doubt the drive voltage will be much different, if at all.

I suspect the 520SE's transmitter needs aligned. The owners manual describes the alignment procedures in details and it doesn't require special tools to perform the alignment. Just follow the instructions in the manual.

The average HV on the plates of the 6146/SA2001 final tubes is around 900VDC. The best method of measuring the HV is to use a DVM and not the 520SE's panel meter.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "kg4kri" <kg4kri@...> wrote:
>
> Hello, all
> I am restoring a ts 520se, and I have run into some trouble with the
> driver stage.On my scope, I am only getting about 1.5 volts to the
> 6146 grids from the driver. All tube voltages check out. What is the
> range of proper drive that I should expect to see at the 6146 grids?
> Also, what kind of drive should I see going to the 12by7? I have
> replaced all tubes with no change in output.
> On a different note, I have noticed that the hv plate supply is
> running high at about 950 volts. This cause arcing in one set of
> replacement tubes I tried. Is there a way to lower the b+? The filter
> caps are a little aged, but they are still within specs.
> Any help with these questions is appreciated.
>
> Daniel,KG4KRI
> --... ...--
>

19662. Re: TS 520 drive voltages?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-12 00:44:32 UTC
From: w5rkl
Topic: 19659 Message: 19662

If a replacement tube is arcing it's not because of the plate voltage,
it's because the tube is bad.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "kg4kri" <kg4kri@...> wrote:
>
> Hello, all
> I am restoring a ts 520se, and I have run into some trouble with the
> driver stage.On my scope, I am only getting about 1.5 volts to the
> 6146 grids from the driver. All tube voltages check out. What is the
> range of proper drive that I should expect to see at the 6146 grids?
> Also, what kind of drive should I see going to the 12by7? I have
> replaced all tubes with no change in output.
> On a different note, I have noticed that the hv plate supply is
> running high at about 950 volts. This cause arcing in one set of
> replacement tubes I tried. Is there a way to lower the b+? The filter
> caps are a little aged, but they are still within specs.
> Any help with these questions is appreciated.
>
> Daniel,KG4KRI
> --... ...--
>

19663. Re: TS 520 drive voltages?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-12 04:48:43 UTC
From: kg4kri
Topic: 19659 Message: 19663

Thank you all for your input! I am glad to know that the plate voltage is not abnormally high- you just can't trust new tubes to be good. I have performed an all-around alignment, so I suspect the problem is in the driver/predriver/transmit circuits. Thanks again.
--- In TS-520_820_530_830@yahoogroups.com, "kg4kri" <kg4kri@...> wrote:
>
> Hello, all
> I am restoring a ts 520se, and I have run into some trouble with the
> driver stage.On my scope, I am only getting about 1.5 volts to the
> 6146 grids from the driver. All tube voltages check out. What is the
> range of proper drive that I should expect to see at the 6146 grids?
> Also, what kind of drive should I see going to the 12by7? I have
> replaced all tubes with no change in output.
> On a different note, I have noticed that the hv plate supply is
> running high at about 950 volts. This cause arcing in one set of
> replacement tubes I tried. Is there a way to lower the b+? The filter
> caps are a little aged, but they are still within specs.
> Any help with these questions is appreciated.
>
> Daniel,KG4KRI
> --... ...--
>

19664. Re: [TS-520_820_530_830] TS 520 drive voltages?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-11 22:49:23 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 19659 Message: 19664

On Sun, 2009-01-11 at 22:18 +0000, kg4kri wrote:
> Hello, all
> I am restoring a ts 520se, and I have run into some trouble with the
> driver stage.On my scope, I am only getting about 1.5 volts to the
> 6146 grids from the driver. All tube voltages check out. What is the
> range of proper drive that I should expect to see at the 6146 grids?
> Also, what kind of drive should I see going to the 12by7? I have
> replaced all tubes with no change in output.

Someone mentioned the socketed MOSFET on the driver board a few days ago as a possible source of trouble. Tomorrow when I get a chance I'll measure the voltage on the grids of my TS-520 if you like. I can't imagine it'll be too different from a TS-520SE.

> On a different note, I have noticed that the hv plate supply is
> running high at about 950 volts. This cause arcing in one set of
> replacement tubes I tried. Is there a way to lower the b+? The filter
> caps are a little aged, but they are still within specs.
> Any help with these questions is appreciated.

With no anode current, the front panel meter reads just a touch over 900V on my radio, with brand new valves in it. At idle (60mA anode current) the meter reads around 850V or a little less, and with 200mA anode current it drops to 800V. I'm not sure that 950V is a problem. Is it possible that the set of valves that arcs is maybe a bit soft? I'm using some NOS 6146A valves which appear to be nice and tight, and with good emission.

Gordon

19665. Screwdriver antenna infromation

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-12 12:33:27 UTC
From: markcurry65
Topic: 19665 Message: 19665

I will post information on the homebrew screwdriver antenna in a
few days for though's of you who are interested.
Thanks to everyone who responded and I will get back to you.

Regards
Mark VK4MON

19666. Tune on mode switch

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-12 12:41:26 UTC
From: markcurry65
Topic: 19666 Message: 19666

Thank to Ken and Gordon on the information on how to fix the problem with the tune position on the TS-820 mode switch.I will check the resistors out when I have time.

Thanks
Mark VK4MON 73

19667. Delayed RF output TS-530SP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-12 17:07:15 UTC
From: Bob
Topic: 19667 Message: 19667

OK, strange thing started happening last night. When I put the transceiver in transmit mode, either voice or CW/TUNE, it takes about half a second before the meter/wattmeter/amp shows that there is any RF output. Nothing, then 1/2 second later, full output. I can hear the relay click immediately when I switch.

I am thinking I will access the relay and clean it to see if that helps but I was wondering if anyone had any other ideas?

Bob

19668. Re: [TS-520_820_530_830] Tune on mode switch

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-12 17:13:47 UTC
From: N6WK
Topic: 19666 Message: 19668

My Pleasure.
Hope it solves it for you.
Let us know.
73,
Gordon

markcurry65 wrote:
>
> Thank to Ken and Gordon on the information on how to fix the problem
> with the tune position on the TS-820 mode switch.I will check the
> resistors out when I have time.
>
> Thanks
> Mark VK4MON 73
>
>
> ----------
> *Text inserted by Panda IS 2009:*
>
> This message has NOT been classified as spam. If it is unsolicited
> mail (spam), click on the following link to reclassify it: It is spam!
> <http://localhost:6083/Panda?ID=pav_246&SPAM=true&path=C:%5CWindows%5Csystem32%5Cconfig%5Csystemprofile%5CAppData%5CLocal%5CPanda%20Security%5CPanda%20Internet%20Security%202009%5CAntiSpam>
> ----------

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19669. Re: [TS-520_820_530_830] Delayed RF output TS-530SP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-12 17:21:39 UTC
From: N6WK
Topic: 19667 Message: 19669

I am guessing " Dirty Relay contacts " as the problem.

73,
Gordon

Bob wrote:
>
> OK, strange thing started happening last night. When I put the
> transceiver in transmit mode, either voice or CW/TUNE, it takes about
> half a second before the meter/wattmeter/amp shows that there is any
> RF output. Nothing, then 1/2 second later, full output. I can hear the
> relay click immediately when I switch.
>
> I am thinking I will access the relay and clean it to see if that
> helps but I was wondering if anyone had any other ideas?
>
> Bob
>
>
> Messages in this topic
> <http://groups.yahoo.com/group/TS-520_820_530_830/message/19667;_ylc=X3oDMTM2ZzRjdHJmBF9
TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzE5NjY3BHNlYwNmdHIEc2xrA
3Z0cGMEc3RpbWUDMTIzMTc4MDAzOAR0cGNJZAMxOTY2Nw-->
> (1)
> <http://groups.yahoo.com/group/TS-520_820_530_830/post;_ylc=X3oDMTJxZnFhYnBuBF9TAzk3MzU5
NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzE5NjY3BHNlYwNmdHIEc2xrA3JwbHkEc3
RpbWUDMTIzMTc4MDAzOA--?act=reply&messageNum=19667>

19670. Check out my Facebook profile

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-12 18:59:15 UTC
From: George Yazzolino
Topic: 19670 Message: 19670

Hi Kenwood,

I set up a Facebook profile where I can post my pictures, videos and events and I want to add you as a friend so you can see it. First, you need to join Facebook! Once you join, you can also create your own profile.

Thanks,
George

To sign up for Facebook, follow the link below:
http://www.facebook.com/p.php?i=1208597443&k=5WL464VXW3YM5CLAVFVXX4&r

[Non-text portions of this message have been removed]

19671. Re: [TS-520_820_530_830] Check out my Facebook profile

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-12 19:06:56 UTC
From: Aaron Lamb
Topic: 19670 Message: 19671

Don¹t CLICK THAT LINK!!!! Its probably that damned facebook Virus/Malware.

Aaron

On 1/12/09 1:59 PM, "George Yazzolino" <kc7hkp@...> wrote:

>
>
>
> Hi Kenwood,
>
> I set up a Facebook profile where I can post my pictures, videos and events
> and I want to add you as a friend so you can see it. First, you need to join
> Facebook! Once you join, you can also create your own profile.
>
> Thanks,
> George
>
> To sign up for Facebook, follow the link below:
> http://www.facebook.com/p.php?i=1208597443&k=5WL464VXW3YM5CLAVFVXX4&r
>
> [Non-text portions of this message have been removed]
>
>
>

[Non-text portions of this message have been removed]

19672. Re: [TS-520_820_530_830] Check out my Facebook profile

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-12 19:24:03 UTC
From: Aaron Lamb
Topic: 19670 Message: 19672

Never Mind, It looks legit.. Sorry I had to fix a ton of computer recently because of that *&%&^$^%$%$#%$#!!!! Koobface...
http://www.google.com/search?q=koobface
Sorry still a jumpy when I see those emails now lol.

Aaron

On 1/12/09 1:59 PM, "George Yazzolino" <kc7hkp@...> wrote:

>
>
>
> Hi Kenwood,
>
> I set up a Facebook profile where I can post my pictures, videos and events
> and I want to add you as a friend so you can see it. First, you need to join
> Facebook! Once you join, you can also create your own profile.
>
> Thanks,
> George
>
> To sign up for Facebook, follow the link below:
> http://www.facebook.com/p.php?i=1208597443&k=5WL464VXW3YM5CLAVFVXX4&r
>
> [Non-text portions of this message have been removed]
>
>
>

[Non-text portions of this message have been removed]

19673. Re: Filter mode relationship

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-12 19:08:50 UTC
From: ko4kl
Topic: 19642 Message: 19673

Thanks, that is comforting to know, however I don't see how this is accomplished on the schematic.

KO4KL
--- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@...> wrote:
>
> Hi. With only the SSB filter, the radio uses the SSB filter on both SSB
> and CW. When you install the CW filter and move the wire to the CW
> terminal, the radio will use the SSB filter for SSB, and the CW filter
> for CW.
>
> TTYL
>
> ko4kl wrote:
> > I am looking for a CW filter for my TS-520S. While waiting to find one
> > I looked at the installation procedure and the schematic. It looks to
> > me that when the option wire is moved from the SSB filter to the CW
> > filter that filter will be used when mode switch is in the CW, USB or
> > LSB position. Shouldn't the wiring be such that the SSB filter is
> > selected in the USB and LSB modes and the CW filter in the CW mode?
> > This of course would require a lead from the mode switch to each
> > filter. I can't believe the wiring and option as it is in the schematic
> > so I must be missing something - old age does that believe me!
> >
> >
>
> --
> CUL8R
>
> KBOHAE kb0hae@... Martin Campbell
>
> A Satisfied Sidux Linux user! To get Sidux go to: www.sidux.com/index.html
> "Protect your digital freedom and privacy, eliminate DRM, learn more at
> http://www.defectivebydesign.org/what_is_drm"

>

19674. RE: [TS-520_820_530_830] TS-520S Manual

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-12 21:01:47 UTC
From: mark helinski
Topic: 8398 Message: 19674

dear tate here is my address
i need the ts 520s manual
mark helinski
311 main street
anita iowa 50020

--- On Sun, 1/11/09, Tate Antrim <kd8hja@insight.rr.com> wrote:

From: Tate Antrim <kd8hja@...>
Subject: RE: [TS-520_820_530_830] TS-520S Manual
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, January 11, 2009, 8:16 AM

Manual has been snapped up.

From: TS-520_820_530_ 830@yahoogroups. com
[mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of Tate Antrim
Sent: Sunday, January 11, 2009 7:34 AM
To: TS-520_820_530_ 830@yahoogroups. com
Subject: [TS-520_820_ 530_830] TS-520S Manual

I have a surplus TS520S User Manual (not original - a very good copy though)
that I'd like to give away (includes mailing) free. If you need one let me
know.

KD8HJA

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[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

19675. Re: [TS-520_820_530_830] TS-520S Manual

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-12 21:03:03 UTC
From: mark helinski
Topic: 8398 Message: 19675

dear tate i need one here is my address
mark helinski
311 main street
anita iowa 50020

--- On Sun, 1/11/09, Tate Antrim <kd8hja@...> wrote:

From: Tate Antrim <kd8hja@...>
Subject: [TS-520_820_530_830] TS-520S Manual
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, January 11, 2009, 6:34 AM

I have a surplus TS520S User Manual (not original - a very good copy though)
that I'd like to give away (includes mailing) free. If you need one let me
know.

KD8HJA

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[Non-text portions of this message have been removed]

19676. TS-520S Manual

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-12 22:24:21 UTC
From: Tate Antrim
Topic: 8398 Message: 19676

It is gone. Picked up within a couple hours of posting. Sorry.

[Non-text portions of this message have been removed]

19677. Vintage Gear Including Kenwood...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-12 22:26:05 UTC
From: Tate Antrim
Topic: 19677 Message: 19677

What I wouldn't give for an hour in the Kenwood aisles with a big flatbed.there must be literally a ton of Kenwood gear there

http://www.vintagessb.net/k6dpz.htm

[Non-text portions of this message have been removed]

19678. Re: Filter mode relationship

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-12 22:19:54 UTC
From: ko4kl
Topic: 19642 Message: 19678

--- In TS-520_820_530_830@yahoogroups.com, "ko4kl" <ko4kl@...> wrote:
>
>
> Thanks, that is comforting to know, however I don't see how this is
> accomplished on the schematic. Is it possible to use the CW filter
in the SSB mode which would be helpful for PSK communication? It may
be that the TS-520 is not stable enough for digital communication.
>
> KO4KL
> --- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@> wrote:
> >
> > Hi. With only the SSB filter, the radio uses the SSB filter on
> both SSB
> > and CW. When you install the CW filter and move the wire to the
CW
> > terminal, the radio will use the SSB filter for SSB, and the CW
> filter
> > for CW.
> >
> > TTYL
> >
> > ko4kl wrote:
> > > I am looking for a CW filter for my TS-520S. While waiting to
> find one
> > > I looked at the installation procedure and the schematic. It
> looks to
> > > me that when the option wire is moved from the SSB filter to
the
> CW
> > > filter that filter will be used when mode switch is in the CW,
> USB or
> > > LSB position. Shouldn't the wiring be such that the SSB filter
is
> > > selected in the USB and LSB modes and the CW filter in the CW
> mode?
> > > This of course would require a lead from the mode switch to
each
> > > filter. I can't believe the wiring and option as it is in the
> schematic
> > > so I must be missing something - old age does that believe me!
> > >
> > >
> >
> > --
> > CUL8R

> >
> > KBOHAE kb0hae@ Martin
> Campbell
> >
> > A Satisfied Sidux Linux user! To get Sidux go to:
> www.sidux.com/index.html
> > "Protect your digital freedom and privacy, eliminate DRM, learn
> more at
> > http://www.defectivebydesign.org/what_is_drm"
> >
>

19679. Re: [TS-520_820_530_830] Vintage Gear Including Kenwood...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-12 22:45:56 UTC
From: Jojo Vicencio DV1VHY
Topic: 19677 Message: 19679

Tate,

Hmmmm....so that so what heaven looks like.

jojo

Roberto "Jojo" Vicencio USN(Retired)

(DV1VHY ex-dw1olv)

Mobile +639178501759

VOIP +1-616-928-1134

http://www.vicencio.net

http://picasaweb.google.com/mob3mc

http://www.dw1olv.multiply.com

https://sites.google.com/site/militaryretireesoverseas/

http://mrgrg-ms.org/ad-swindle-00.html

--- On Tue, 1/13/09, Tate Antrim <kd8hja@...> wrote:

From: Tate Antrim <kd8hja@insight.rr.com>
Subject: [TS-520_820_530_830] Vintage Gear Including Kenwood...
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, January 13, 2009, 6:26 AM

What I wouldn't give for an hour in the Kenwood aisles with a big

flatbed.there must be literally a ton of Kenwood gear there

http://www.vintages sb.net/k6dpz. htm

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[Non-text portions of this message have been removed]

19680. RE: [TS-520_820_530_830] Vintage Gear Including Kenwood...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-12 23:38:25 UTC
From: Tate Antrim
Topic: 19677 Message: 19680

Yeah.sigh.

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jojo Vicencio
DV1VHY
Sent: Monday, January 12, 2009 5:46 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Vintage Gear Including Kenwood...

Tate,

Hmmmm....so that so what heaven looks like.

jojo

Roberto "Jojo" Vicencio USN(Retired)

(DV1VHY ex-dw1olv)

Mobile +639178501759

VOIP +1-616-928-1134

http://www.vicencio.net

http://picasaweb.google.com/mob3mc

http://www.dw1olv.multiply.com

https://sites.google.com/site/militaryretireesoverseas/

http://mrgrg-ms.org/ad-swindle-00.html

--- On Tue, 1/13/09, Tate Antrim <kd8hja@...
<mailto:kd8hja%40insight.rr.com> > wrote:

From: Tate Antrim <kd8hja@... <mailto:kd8hja%40insight.rr.com> >
Subject: [TS-520_820_530_830] Vintage Gear Including Kenwood...
To: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
Date: Tuesday, January 13, 2009, 6:26 AM

What I wouldn't give for an hour in the Kenwood aisles with a big

flatbed.there must be literally a ton of Kenwood gear there

http://www.vintages sb.net/k6dpz. htm

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[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

19681. Re: [TS-520_820_530_830] Check out my Facebook profile

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-13 02:03:54 UTC
From: Don Thomas
Topic: 19670 Message: 19681

I'm thinking Facebook is like Grouply. I've been getting emails from unknown people asking about my profile status. Been deleting them.

Don T.

--- On Mon, 1/12/09, Aaron Lamb <wm.aaron.lamb@...> wrote:

From: Aaron Lamb <wm.aaron.lamb@...>
Subject: Re: [TS-520_820_530_830] Check out my Facebook profile
To: TS-520_820_530_830@yahoogroups.com
Date: Monday, January 12, 2009, 1:24 PM

Never Mind, It looks legit.. Sorry I had to fix a ton of computer recently
because of that *&%&^$^%$%$# %$#!!!! Koobface...
http://www.google. com/search? q=koobface
Sorry still a jumpy when I see those emails now lol.

Aaron

On 1/12/09 1:59 PM, "George Yazzolino" <kc7hkp@comcast. net> wrote:

>
>
>
> Hi Kenwood,
>
> I set up a Facebook profile where I can post my pictures, videos and events
> and I want to add you as a friend so you can see it. First, you need to join
> Facebook! Once you join, you can also create your own profile.
>
> Thanks,
> George
>
> To sign up for Facebook, follow the link below:
> http://www.facebook .com/p.php? i=1208597443& k=5WL464VXW3YM5C LAVFVXX4& r
>
> [Non-text portions of this message have been removed]
>
>
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

19682. Re: [TS-520_820_530_830] Vintage Gear Including Kenwood...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-13 02:24:52 UTC
From: Jerry J Seay
Topic: 19677 Message: 19682

I talked to Hal a couple of times and found him very friendly very very knowledgable. In fact, I would say for me that is, he has forgotten more than I will ever know about most of those beauties he has.

Jerry, KE5PUT

On Monday 12 January 2009 16:26:05 Tate Antrim wrote:
> What I wouldn't give for an hour in the Kenwood aisles with a big
> flatbed.there must be literally a ton of Kenwood gear there
>
>
>
> http://www.vintagessb.net/k6dpz.htm
>
>
>
> [Non-text portions of this message have been removed]

19683. RE: [TS-520_820_530_830] Vintage Gear Including Kenwood...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-13 02:49:37 UTC
From: Tate Antrim
Topic: 19677 Message: 19683

How would one become an adopted kid of his so that one could inherit the estate? I really can't imagine all those radios in one place. I've been looking back through 50+ years of complete subscriptions to QST/CQ and Ham Radio magazines given to me by a friend and I see those radios on the pages and here this fellow has all that history that I see printed. I'd really like to just walk through and touch some of those rigs. Even set them on the bench and play with them for a bit.

It pains me to think of the hundreds of thousands of them that ended up in landfills (imagine the archaeologists digging up some of this equipment in a 1000 years and finding vacuum tubes). That is just tragic...perhaps some of that TARP money could be used to bail out us amateurs that love vintage gear like this?

It could happen. Say it with me "It could happen!"

73

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jerry J Seay
Sent: Monday, January 12, 2009 9:25 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Vintage Gear Including Kenwood...

I talked to Hal a couple of times and found him very friendly very very knowledgable. In fact, I would say for me that is, he has forgotten more than I will ever know about most of those beauties he has.

Jerry, KE5PUT

On Monday 12 January 2009 16:26:05 Tate Antrim wrote:
> What I wouldn't give for an hour in the Kenwood aisles with a big
> flatbed.there must be literally a ton of Kenwood gear there
>
>
>
> http://www.vintagessb.net/k6dpz.htm
>
>
>
> [Non-text portions of this message have been removed]

Yahoo! Groups Links

19684. RE: [TS-520_820_530_830] Vintage Gear Including Kenwood...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-13 03:05:10 UTC
From: Jojo Vicencio DV1VHY
Topic: 19677 Message: 19684

Maybe he needs a shop assistant? Would gladly wipe or dust those babies down. This pretty much shows our age when we fantasize about wiping down down boatanchors. Tsk, tsk tsk.

Wud love to clean the Collins rack.....

jojo

Roberto "Jojo" Vicencio USN(Retired)

(DV1VHY ex-dw1olv)

Mobile +639178501759

VOIP +1-616-928-1134

http://www.vicencio.net

http://picasaweb.google.com/mob3mc

http://www.dw1olv.multiply.com

https://sites.google.com/site/militaryretireesoverseas/

http://mrgrg-ms.org/ad-swindle-00.html

--- On Tue, 1/13/09, Tate Antrim <kd8hja@...> wrote:

From: Tate Antrim <kd8hja@...>
Subject: RE: [TS-520_820_530_830] Vintage Gear Including Kenwood...
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, January 13, 2009, 10:49 AM

How would one become an adopted kid of his so that one could inherit the

estate? I really can't imagine all those radios in one place. I've been

looking back through 50+ years of complete subscriptions to QST/CQ and Ham

Radio magazines given to me by a friend and I see those radios on the pages

and here this fellow has all that history that I see printed. I'd really

like to just walk through and touch some of those rigs. Even set them on

the bench and play with them for a bit.

It pains me to think of the hundreds of thousands of them that ended up in

landfills (imagine the archaeologists digging up some of this equipment in a

1000 years and finding vacuum tubes). That is just tragic...perhaps some of that TARP money could be used to bail out us amateurs that love vintage gear like this?

It could happen. Say it with me "It could happen!"

73

-----Original Message-----

From: TS-520_820_530_ 830@yahoogroups. com

[mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of Jerry J Seay

Sent: Monday, January 12, 2009 9:25 PM

To: TS-520_820_530_ 830@yahoogroups. com

Subject: Re: [TS-520_820_ 530_830] Vintage Gear Including Kenwood...

I talked to Hal a couple of times and found him very friendly very very knowledgable. In fact, I would say for me that is, he has forgotten more than I will ever know about most of those beauties he has.

Jerry, KE5PUT

On Monday 12 January 2009 16:26:05 Tate Antrim wrote:

> What I wouldn't give for an hour in the Kenwood aisles with a big

> flatbed.there must be literally a ton of Kenwood gear there

>

>

>

> http://www.vintages sb.net/k6dpz. htm

>

>

>

> [Non-text portions of this message have been removed]

------------ --------- --------- ------

Yahoo! Groups Links

[Non-text portions of this message have been removed]

19685. Re: [TS-520_820_530_830] Check out my Facebook profile

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-13 10:02:50 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 19670 Message: 19685

On Mon, 2009-01-12 at 18:03 -0800, Don Thomas wrote:
> I'm thinking Facebook is like Grouply. I've been getting emails from unknown people asking about my profile status. Been deleting them.

No, it's not like Grouply. If you're getting a lot of emails about your profile status, it's probably because someone you know is using Microsoft Windows and therefore has a trojan that has read their address book and is spamming everyone it can find - including you!

Gordon

19686. Re: [TS-520_820_530_830] Vintage Gear Including Kenwood...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-13 15:54:12 UTC
From: Jerry J Seay
Topic: 19677 Message: 19686

I know just how you feel. When I was young man in 1955, a dentist in our town was clearing out the house his mother had lived and died in. He was in the process of moving a floor standing Philco radio to the dump. He didn't know if it played or not but it was leaving. I got the radio, free, and took it home. My Mom was really pissed, but Dad stood by me. It took me about a month to figure out what it needed to play, AM only, This was before FM and SW was not part of the bandwidth. It was beautiful almost a Victorian case with nice woods and my new grill cloth. Sounded like a dream.

And here is the rest of the story. That radio played daily for the next three years until I left to attend the Military Academy at West Point. Four years later I learned that my old radio had taken that fateful ride to the dump. I went to the dump to find it. Someone agreed with me. It was gone.

Jerry, KE5PUT

On Monday 12 January 2009 20:49:37 Tate Antrim wrote:
> How would one become an adopted kid of his so that one could inherit the
> estate? I really can't imagine all those radios in one place. I've been
> looking back through 50+ years of complete subscriptions to QST/CQ and Ham
> Radio magazines given to me by a friend and I see those radios on the pages
> and here this fellow has all that history that I see printed. I'd really
> like to just walk through and touch some of those rigs. Even set them on
> the bench and play with them for a bit.
>
> It pains me to think of the hundreds of thousands of them that ended up in
> landfills (imagine the archaeologists digging up some of this equipment in
> a 1000 years and finding vacuum tubes). That is just tragic...perhaps some
> of that TARP money could be used to bail out us amateurs that love vintage
> gear like this?
>
> It could happen. Say it with me "It could happen!"
>
> 73
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jerry J Seay
> Sent: Monday, January 12, 2009 9:25 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] Vintage Gear Including Kenwood...
>
> I talked to Hal a couple of times and found him very friendly very very
> knowledgable. In fact, I would say for me that is, he has forgotten more
> than I will ever know about most of those beauties he has.
>

> Jerry, KE5PUT
>
> On Monday 12 January 2009 16:26:05 Tate Antrim wrote:
> > What I wouldn't give for an hour in the Kenwood aisles with a big
> > flatbed.there must be literally a ton of Kenwood gear there
> >
> >
> >
> > http://www.vintagessb.net/k6dpz.htm
> >
> >
> >
> > [Non-text portions of this message have been removed]
>
> ------------------------------------
>
> Yahoo! Groups Links

19687. Re: Check out my Facebook profile

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-13 13:28:22 UTC
From: freddhardeng
Topic: 19670 Message: 19687

--- In TS-520_820_530_830@yahoogroups.com, Don Thomas <satranger1@...>
wrote:
>
> I'm thinking Facebook is like Grouply. I've been getting emails
from unknown people asking about my profile status. Been deleting them.
>
> Don T.

I agree. This is not the first forum in Yahoo Groups that has 'come
to my site' messages posted. It is a form of SPAM - a commercial
enterprise trolling for 'marks' to come to its site. In the
off-chance that it ACTUALLY is a forum member asking, then the poor
guy should be trolling the 'personals' somewhere else.

I did not join this KENWOOD boat anchor forum to hear people whine
about not having visitors to their damn facebook page! This forum
contact person should complain to Yahoo to see if crap like this can
be blocked from the forum.

TLO - NX3G -

19688. 25Khz Calibrator

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-13 19:05:48 UTC
From: Steve
Topic: 19688 Message: 19688

I need some detail. :) When instructions say to tune in to this signal on a given frequency, what mode? zero beat? I'm a little confused. I saw a set of instructions for an alignment in the files section and wanted to give it a try to see if the rig is off or not and don't want to hose it up. I've had my 830 for about a year now and am just getting into it. What a nice radio. It sounds so much better than my 746Pro and can hear much better! thanks in advance. 73 AI4NV Steve

19689. logging software

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-13 19:11:50 UTC
From: peglegkd5gyg
Topic: 19689 Message: 19689

does anybody know of a logging software that will pull the data from QRZ since they have changed their format on that website. I was hoping not to have to subscribe to qrz, buy cd's etc... in order to import this data.

Sorry if this is a little off group topic.

Thanks
kd5gyg

19690. RE: [TS-520_820_530_830] logging software

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-13 19:31:57 UTC
From: Aaron Lamb
Topic: 19689 Message: 19690

Try Ham Radio Deluxe. Simon is reworking the logbook so it might become a little more independent on the next release. I use it as my main logbook now even if I am running the 450 or the 520.

Aaron

KD4GSL

[Non-text portions of this message have been removed]

19691. Re: [TS-520_820_530_830] logging software

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-13 19:32:36 UTC
From: William S. White
Topic: 19689 Message: 19691

DXKeeper* will if Pathfinder* is running.
*Part of the (free) DXLab Suite:
http://www.dxlabsuite.com/

----- Original Message -----
From: "peglegkd5gyg" <peglegkd5gyg@>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, January 13, 2009 2:11 PM
Subject: [TS-520_820_530_830] logging software

does anybody know of a logging software that will pull the data from
QRZ since they have changed their format on that website. I was hoping
not to have to subscribe to qrz, buy cd's etc... in order to import
this data.

Sorry if this is a little off group topic.

Thanks
kd5gyg

19692. Re: [TS-520_820_530_830] logging software

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-13 19:41:31 UTC
From: Jim W7RY
Topic: 19689 Message: 19692

N1MM has a "buck" button. Which is for the old Buckmaster. But if your on line, N1MM goes to qrz.com and gets the info.

73
Jim W7RY

----- Original Message -----
From: peglegkd5gyg
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, January 13, 2009 11:11 AM
Subject: [TS-520_820_530_830] logging software

does anybody know of a logging software that will pull the data from
QRZ since they have changed their format on that website. I was hoping
not to have to subscribe to qrz, buy cd's etc... in order to import
this data.

Sorry if this is a little off group topic.

Thanks
kd5gyg

[Non-text portions of this message have been removed]

19693. Re: 25Khz Calibrator

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-13 21:58:53 UTC
From: w5rkl
Topic: 19688 Message: 19693

Steve,

The calibrator will produce a calibration tone at 25Khz intervals. When it says to "zero beat" that means to tune the dial until the tone disappears, you do not hear a beat note. It doesn't matter what sideband you use.

To determine if the calibrator is on frequency simply tune in WWV at 10Mhz in any sideband and zero beat WWV. Turn on the calibrator and if the calibrator frequency is correct you should not hear a beat note. Without touching the dial or the function switch, switch between USB and LSB or vice verse and you should not hear any change in the zero beat. The best WWV signal is when there is not tone or talking sent from WWV, only "ticking".

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Steve" <wrench101@...> wrote:
>
> I need some detail. :) When instructions say to tune in to this
> signal on a given frequency, what mode? zero beat? I'm a little
> confused. I saw a set of instructions for an alignment in the files
> section and wanted to give it a try to see if the rig is off or not
> and don't want to hose it up. I've had my 830 for about a year now and
> am just getting into it. What a nice radio. It sounds so much better
> than my 746Pro and can hear much better! thanks in advance. 73 AI4NV
Steve
>

19694. Shure 444 to TS-530S microphone connection... possible?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-14 18:34:21 UTC
From: Jeff Easterly
Topic: 19694 Message: 19694

Acquired a well-used Shure 444 desk microphone recently, to use w/ my TS-530... Upon opening the base, I found only one set of switchable contacts... The Kenwood operations manual states that two sets are required, to key the xmitt section, & break the audio lead on rcv... Will using the one set of contacts to switch the keying circuit be adequate for low-power operation? :-/

Thank you, & 73...

Jeff Easterly
La Mirada, CA

19695. TS 830S Band switch

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-14 18:37:43 UTC
From: kb7oge
Topic: 19695 Message: 19695

I was given a Kenwood TS 830S and it is driving me nuts (more so than usual). When I try to tune the finals I turn the band switch to the band and it is like nothing has happened. Some times if I flip the send/Receive switch the band switch kicks in I tried spraying contact cleaner on the band switch contacts and no improvement.
During the tune up (when the band switch works) when I flip the send /receive switch the meter goes to) and my external power meter shows no RF. It doesn't matter if I am using the drive, plate, or load the meter goes to 0. I have the 830s connected to an antenna that is presenting a 1:1 match to the antenna.

Any help would be appreciated.
Thanks
Chuck Roth
KB7OGE

19696. Re: [TS-520_820_530_830] TS 830S Band switch

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-14 18:52:37 UTC
From: N6WK
Topic: 19695 Message: 19696

Chuck,

I would check the band switch Coupler that is inside the Final cage.
I'll bet it is cracked and loose.
Be careful as there is HV in there.

73,
Gordon

kb7oge wrote:
>
> I was given a Kenwood TS 830S and it is driving me nuts (more so than
> usual). When I try to tune the finals I turn the band switch to the
> band and it is like nothing has happened. Some times if I flip the
> send/Receive switch the band switch kicks in I tried spraying contact
> cleaner on the band switch contacts and no improvement.
> During the tune up (when the band switch works) when I flip the send
> /receive switch the meter goes to) and my external power meter shows no
> RF. It doesn't matter if I am using the drive, plate, or load the
> meter goes to 0. I have the 830s connected to an antenna that is
> presenting a 1:1 match to the antenna.
>
> Any help would be appreciated.
> Thanks
> Chuck Roth
> KB7OGE
>
>
>

--

19697. TS-830S Covers

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-14 19:09:16 UTC
From: Gordon
Topic: 19697 Message: 19697

I am looking for a nice top and bottom cover for the TS-830S.
Also a rear panel that is is good shape as well.
Anyone have these for sale?

Thanks,
Gordon
N6WK

19698. Re: Shure 444 to TS-530S microphone connection... possible?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-14 19:21:11 UTC
From: w5rkl
Topic: 19694 Message: 19698

If you go to the link below, which will download the Shure 444 pdf file, you will see that the microphone element is switch on and off by the push to talk bar. I use a Shure 444 with my 820 and it works very well, no hum just very good audio.

http://www.shure.com/stellent/groups/public/@gms_gmi_web_ug/documents/web_resource/us_pro_444_ug.pdf

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Jeff Easterly" <MrNobody703@...> wrote:
>
> Acquired a well-used Shure 444 desk microphone recently, to use w/ my
> TS-530... Upon opening the base, I found only one set of switchable
> contacts... The Kenwood operations manual states that two sets are
> required, to key the xmitt section, & break the audio lead on rcv...
> Will using the one set of contacts to switch the keying circuit be
> adequate for low-power operation? :-/
>
> Thank you, & 73...
>
> Jeff Easterly
> La Mirada, CA
>

19699. Re: 25Khz Calibrator

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-14 20:43:34 UTC
From: Steve
Topic: 19688 Message: 19699

Thanks Mike, hopefully I get a chance to mess with it here soon. I was hoping to spend some time with the rig this weekend, but now I'm renting a boom and chopping some trees. Sometimes, it's a pain to be a handy person. ;) 73

19700. New file uploaded to TS-520_820_530_830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-15 08:57:06 UTC
From: TS-520_820_530_830@yahoogroups.com
Topic: 262 Message: 19700

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the TS-520_820_530_830
group.

File : /ScrewDrvrInstructions.ppt
Uploaded by : markcurry65 <markcurry65@...>
Description : homebrew screwdriver antenna

You can access this file at the URL:
http://groups.yahoo.com/group/TS-520_820_530_830/files/ScrewDrvrInstructions.ppt

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.htmlfiles

Regards,

markcurry65 <markcurry65@...>

19701. Screwdriver Antenna

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-15 09:16:10 UTC
From: markcurry65
Topic: 19701 Message: 19701

Hi to all
All of you who were interested in screwdriver antenna I've posted the detail on the file section of this group.
Enjoy.
73 from Mark
VK4MON

19702. Re: Screwdriver Antenna powerpoint to pdf

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-15 12:49:58 UTC
From: kc2pcr
Topic: 19701 Message: 19702

Thanks for the Screwdriver Antenna building Instructions, I converted
the powerpoint file to a .pdf file (206kb), it can be found here:
http://www.cnyara.com/_manuals/Mixed/ScrewDrvrInstructions.pdf

73
Doug kc2pcr

--- In TS-520_820_530_830@yahoogroups.com, "markcurry65"
<markcurry65@...> wrote:
>
> Hi to all
> All of you who were interested in screwdriver antenna I've posted the
> detail on the file section of this group.
> Enjoy.
> 73 from Mark
> VK4MON
>

19703. Dust Covers Try Surplus Sales

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-15 14:47:23 UTC
From: techamateur
Topic: 19703 Message: 19703

Hi, I do not know whats is stock.I have no connection with this company.
Bob N3DOK

http://www.surplussales.com/Equipment/HamEquipment/DustCovers.html

DC-70097 KENWOOD TS530S, TS830S, TS180S 5.325 x 13.325 x 12.325

DC-70033 KENWOOD PS-31, SP-31 4.5 x 7.25 x 12.75
DC-70065 KENWOOD TS-930S 5.25 x 15.25 x 17
DC-70067 KENWOOD TS-940S, 950S 5.625 x 15.875 x 14.875
DC-70069 KENWOOD TS-711A, TS811A, TS-670 3.825 x 11.625 x 11.25
DC-70072 KENWOOD TS-430S, TS440S, R5000, TS450S 4 x 11 x 13
DC-70075 KENWOOD SP-930, SP-940 5.325 x 7.25 x 11.5
DC-70090 KENWOOD SP-430, SP-440 3.5 x 4.75 x 9
DC-70093 KENWOOD PS-430, PS-50, AT-250 4 x 7 x 12.5
DC-70095 KENWOOD TS520, TS820, R820, TS700A & S 6.5 x 12.5 x 15.75
DC-70097 KENWOOD TS530S, TS830S, TS180S 5.325 x 13.325 x 12.325
DC-70099 KENWOOD SP-230, VFO230, VFO240, AT230 5.325 x 7.25 x 11.5
DC-70103 KENWOOD TS-120, TS-130, TS-660, TS-140, TS-680, TS-711 3.75 x 9.5 x 12.8
DC-70105 KENWOOD SM-220 6 x 9 x 15.5
DC-70106 KENWOOD TL922A 7.5 x 15.4 x 16
DC-70107 KENWOOD R-2000 4.75 x 15.25 x 10
DC-70207 KENWOOD TS-850S 6 x 13.75 x 15.75

19704. Re: [TS-520_820_530_830] Re: Screwdriver Antenna powerpoint to pdf

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-16 03:41:32 UTC
From: John A
Topic: 19701 Message: 19704

Thanks Doug! Proprietary Microshaft formats suck!

73's
John

On Jan 15, 2009, at 7:49 AM, kc2pcr wrote:

> Thanks for the Screwdriver Antenna building Instructions, I converted
> the powerpoint file to a .pdf file (206kb), it can be found here:
> http://www.cnyara.com/_manuals/Mixed/ScrewDrvrInstructions.pdf
>
> 73
> Doug kc2pcr
>
> --- In TS-520_820_530_830@yahoogroups.com, "markcurry65"
> <markcurry65@...> wrote:
>>
>> Hi to all
>> All of you who were interested in screwdriver antenna I've posted the
>> detail on the file section of this group.
>> Enjoy.
>> 73 from Mark
>> VK4MON
>>

19705. Re: Screwdriver Antenna powerpoint to pdf

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-16 19:53:49 UTC
From: jay
Topic: 19701 Message: 19705

Thanks Mark and Doug,

Not sure how important they are, but I had the same problem with the pdf file as with the powerpoint. The notes referenced to page 5 are missing.

73,
jay, kb9wwq

--- In TS-520_820_530_830@yahoogroups.com, "kc2pcr" <KC2PCR@...> wrote:
>
> Thanks for the Screwdriver Antenna building Instructions, I converted
> the powerpoint file to a .pdf file (206kb), it can be found here:
> http://www.cnyara.com/_manuals/Mixed/ScrewDrvrInstructions.pdf
>
> 73
> Doug kc2pcr
>
> --- In TS-520_820_530_830@yahoogroups.com, "markcurry65"
> <markcurry65@> wrote:
> >
> > Hi to all
> > All of you who were interested in screwdriver antenna I've posted the
> > detail on the file section of this group.
> > Enjoy.
> > 73 from Mark
> > VK4MON
> >
>

19706. Re: Screwdriver Antenna powerpoint to pdf

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-17 16:38:57 UTC
From: kc2pcr
Topic: 19701 Message: 19706

The only presentation notes I found were on page 8 & are included (pg8)in the pdf, If there are other notes available, I can add to the pdf.
Page 5 references the note1, note2, etc in the illustrations..But I really dont know if there is also text as well the powerpoint had no other embedded notes.
-73-
Doug kc2pcr

"jay" wrote:
>
> Thanks Mark and Doug,
>
> Not sure how important they are, but I had the same problem with the
> pdf file as with the powerpoint. The notes referenced to page 5 are
> missing.
>
> 73,
> jay, kb9wwq
>
>

19707. 520 Series Cabinet Top

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-18 01:57:35 UTC
From: jsloss
Topic: 19707 Message: 19707

Need a cabinet top for a 520S.

Many thanks,

Joe k7mks

[Non-text portions of this message have been removed]

19708. KENWOOD MC MICROPHONE CONNECTOR

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-18 16:06:00 UTC
From: popzemail
Topic: 19708 Message: 19708

Greetings Everyone, I'm looking for a supplier for a 'standard' round 4 pin mic connector to fit the TS-520S / TS-830S series rigs.

TIA, JD

19709. KENWOOD MICROPHONE CONNECTOR

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-17 16:43:19 UTC
From: popzemail
Topic: 19709 Message: 19709

Greetings Group, could someone suggest a supplier for a 'standard'
round 4 pin microphone connector that will fit a TS-520S / TS-830S?

Thanks in Advance, John

19710. No transmit when on SSB TS-829

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-15 20:02:37 UTC
From: jwsanders2002
Topic: 19710 Message: 19710

I am a newbie in dealing with the Vintage gear and am taking this one step at a time. After a few days of practice I feel confident I have the radio tuned-up properly. I am using the AT-200 to monitor the power settings. OK I have everytging in place: I tuned into the dummy load setting on the tuner connected to a dummy load. My setings are exactly right - 60ma idling, and tweeking the drive, load, and car, show exactly 100 watts on 75 maters according to the AT-200. Now when I try to transmit on SSB using the M50 microphone absolutely nothing happens even if I yell. However if I switch the mode to CW and key the mic the AT-200 shows 100 Watts out and reflected 5 watts back. What if anything am I doing wrong or check for. I am not goods with hands-on stuff inside the transciever and fear a trip to the Radio doctor may be in order.

Whew! Thanks, Jack N7BBX

19711. Re: [TS-520_820_530_830] No transmit when on SSB TS-829

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-18 17:44:19 UTC
From: N6WK
Topic: 19710 Message: 19711

JACK,
Make sure the Mic gain is turned up first of all. Next, work the
processor button in and out a few times. I have seena dirty processor
switch cause what you are describing.
If that doesn't help, I would be checking the Mic wiring.
73,
Gordon

jwsanders2002 wrote:
>
> I am a newbie in dealing with the Vintage gear and am taking this one
> step at a time. After a few days of practice I feel confident I have
> the radio tuned-up properly. I am using the AT-200 to monitor the power
> settings. OK I have everytging in place: I tuned into the dummy load
> setting on the tuner connected to a dummy load. My setings are exactly
> right - 60ma idling, and tweeking the drive, load, and car, show
> exactly 100 watts on 75 maters according to the AT-200. Now when I try
> to transmit on SSB using the M50 microphone absolutely nothing happens
> even if I yell. However if I switch the mode to CW and key the mic the
> AT-200 shows 100 Watts out and reflected 5 watts back. What if anything
> am I doing wrong or check for. I am not goods with hands-on stuff
> inside the transciever and fear a trip to the Radio doctor may be in
> order.
>
> Whew! Thanks, Jack N7BBX
>
>

19712. Re: [TS-520_820_530_830] KENWOOD MC MICROPHONE CONNECTOR

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-18 17:55:33 UTC
From: Adam Wade
Topic: 19708 Message: 19712

On Sunday, January 18, 2009 8:06 AM [Zulu -7],
popzemail <popzemail@...> wrote:

> Greetings Everyone, I'm looking for a supplier for a 'standard' round
> 4 pin mic connector to fit the TS-520S / TS-830S series rigs.

Much to my surprise, they are actually available at Radio Shack in the
drawers they have for loose parts.

! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
! "I write down everything I want to remember. That way, instead !
! of spending a lot of time trying to remember what it is I wrote !
! down, I spend z time looking for the paper I wrote it down on." !
! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !

19713. Re: [TS-520_820_530_830] KENWOOD MC MICROPHONE CONNECTOR

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-18 18:20:12 UTC
From: Ruben Echevarria
Topic: 19708 Message: 19713

Buxcomm has them, just Google it ....
 Ruben Echevarria KA2HHB
SKCC #2132 EPC#3390
10-10 International Club #33308
30Meter Digital Group #1148

From: popzemail <popzemail@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, January 18, 2009 11:06:00 AM
Subject: [TS-520_820_530_830] KENWOOD MC MICROPHONE CONNECTOR

Greetings Everyone, I'm looking for a supplier for a 'standard' round 4
pin mic connector to fit the TS-520S / TS-830S series rigs.

TIA, JD

[Non-text portions of this message have been removed]

19714. Re: [TS-520_820_530_830] KENWOOD MC MICROPHONE CONNECTOR

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-18 18:31:16 UTC
From: ve3wej gmail
Topic: 19708 Message: 19714

i guess it depends on what country you are from, but there should be no reason for most all ham stores to carry them...

VE3WEJ
Dave Garber

10-X # 23465
echolink # 52852
irlp node 2202
email ve3wej@...
----- Original Message -----
From: popzemail
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, January 18, 2009 11:06 AM
Subject: [TS-520_820_530_830] KENWOOD MC MICROPHONE CONNECTOR

Greetings Everyone, I'm looking for a supplier for a 'standard' round 4 pin mic connector to fit the TS-520S / TS-830S series rigs.

TIA, JD

[Non-text portions of this message have been removed]

19715. Re: [TS-520_820_530_830] KENWOOD MICROPHONE CONNECTOR

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-18 18:28:52 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 19709 Message: 19715

On Sat, 2009-01-17 at 16:43 +0000, popzemail wrote:
> Greetings Group, could someone suggest a supplier for a 'standard'
> round 4 pin microphone connector that will fit a TS-520S / TS-830S?

CB accessory shops, or eBay? I don't know where you are, but in the UK
Maplin stock them.

Gordon

19716. Re: [TS-520_820_530_830] KENWOOD MICROPHONE CONNECTOR

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-18 20:04:28 UTC
From: Ron Pearson
Topic: 19709 Message: 19716

John... In case you can't find one, what I did was solder a female clip to each of the wires on the mic. I plugged each one into the proper male clip in the radio and just leave the mic plugged in. Looks bad, but works fine...
Ron/W5RCP

100% CW, 100% of the Time
Fists#6259 & cc#1775, ARS#1799, FP#1047, NAQCC#483, SKCC#2922,
QRP-ARCI#13328, Houston QRP Club, HQRP Fists#11025, KCARC/Abilene, Zombie#839

From: popzemail <popzemail@...>
To: TS-520_820_530_830@...m
Sent: Saturday, January 17, 2009 10:43:19 AM
Subject: [TS-520_820_530_830] KENWOOD MICROPHONE CONNECTOR

Greetings Group, could someone suggest a supplier for a 'standard'
round 4 pin microphone connector that will fit a TS-520S / TS-830S?

Thanks in Advance, John

Yahoo! Groups Links

[Non-text portions of this message have been removed]

19717. How to allign the VFO knob.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-18 21:08:02 UTC
From: mikefr24
Topic: 19717 Message: 19717

Hey guys,

I have had a TS-820S for a long time and recently dusted it off and fired it up. I noticed that the VFO knob does not match what the digital display says. I guess its not a huge deal but I would like it to be right. Before I open the radio and mess with it myself I thought I would ask and see if there is a standard way to align the knob.

See the following link for a picture of my problem.

http://www.freemansgarage.com/images/ts820s.JPG

Thanks,
Mike

19718. Re: [TS-520_820_530_830] How to allign the VFO knob.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-18 21:09:47 UTC
From: ve3wej gmail
Topic: 19717 Message: 19718

hold the dial and turn the knob, until they match

VE3WEJ
Dave Garber

10-X # 23465
echolink # 52852
irlp node 2202
email ve3wej@...
----- Original Message -----
From: mikefr24
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, January 18, 2009 4:08 PM
Subject: [TS-520_820_530_830] How to allign the VFO knob.

Hey guys,

I have had a TS-820S for a long time and recently dusted it off and
fired it up. I noticed that the VFO knob does not match what the
digital display says. I guess its not a huge deal but I would like it
to be right. Before I open the radio and mess with it myself I
thought I would ask and see if there is a standard way to align the
knob.

See the following link for a picture of my problem.

http://www.freemansgarage.com/images/ts820s.JPG

Thanks,
Mike

[Non-text portions of this message have been removed]

19719. Re: [TS-520_820_530_830] KENWOOD MICROPHONE CONNECTOR

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-18 23:18:30 UTC
From: don langston
Topic: 19709 Message: 19719

Do a Google for MCM electronics. They have all type of mic connectors
Don
W4jvy

Ron Pearson wrote:
>
> John... In case you can't find one, what I did was solder a female
> clip to each of the wires on the mic. I plugged each one into the
> proper male clip in the radio and just leave the mic plugged in. Looks
> bad, but works fine...
> Ron/W5RCP
>
> 100% CW, 100% of the Time
> Fists#6259 & cc#1775, ARS#1799, FP#1047, NAQCC#483, SKCC#2922,
> QRP-ARCI#13328, Houston QRP Club, HQRP Fists#11025, KCARC/Abilene,
> Zombie#839
>
> _____
> From: popzemail <popzemail@... <mailto:popzemail%40yahoo.ca>>
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Saturday, January 17, 2009 10:43:19 AM
> Subject: [TS-520_820_530_830] KENWOOD MICROPHONE CONNECTOR
>
> Greetings Group, could someone suggest a supplier for a 'standard'
> round 4 pin microphone connector that will fit a TS-520S / TS-830S?
>
> Thanks in Advance, John
>
> ---
>
> Yahoo! Groups Links
>
> [Non-text portions of this message have been removed]
>
>

19720. Re: [TS-520_820_530_830] KENWOOD MICROPHONE CONNECTOR

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-18 23:20:14 UTC
From: martin
Topic: 19709 Message: 19720

Hi. I have to say that if you can't find the proper mic plug, you are just not looking. Radio Shack carries them. Don't have an RS store? Anyplace that sells electronic parts or CB radios should have them. If you cannot find one locally, you can order them from hundreds of places on the internet. I am sure Mouser Electronics has them, and no minimum order. They can also be found on eBay.

Get out the phone book and call around. Look on the internet. One place or the other you will find them if you look. ;^))

TTYL

Ron Pearson wrote:
> John... In case you can't find one, what I did was solder a female clip to each of the wires on the mic. I plugged each one into the proper male clip in the radio and just leave the mic plugged in. Looks bad, but works fine...
> Ron/W5RCP
>
>
> 100% CW, 100% of the Time
> Fists#6259 & cc#1775, ARS#1799, FP#1047, NAQCC#483, SKCC#2922,
> QRP-ARCI#13328, Houston QRP Club, HQRP Fists#11025, KCARC/Abilene, Zombie#839
>
>
>
>
> _____
> From: popzemail <popzemail@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, January 17, 2009 10:43:19 AM
> Subject: [TS-520_820_530_830] KENWOOD MICROPHONE CONNECTOR
>
> Greetings Group, could someone suggest a supplier for a 'standard'
> round 4 pin microphone connector that will fit a TS-520S / TS-830S?
>
> Thanks in Advance, John
>
>
> ---
>
> Yahoo! Groups Links
>
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>
>
>

>
> [Non-text portions of this message have been removed]
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

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"Protect your digital freedom and privacy, eliminate DRM, learn more at
http://www.defectivebydesign.org/what_is_drm"

19721. Re: [TS-520_820_530_830] KENWOOD MICROPHONE CONNECTOR

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-18 23:49:55 UTC
From: Ron Pearson
Topic: 19709 Message: 19721

You're right! I wasn't looking. Using my Tempo One mic until I can find one for the TS-520S.
 Ron/W5RCP

100% CW, 100% of the Time
Fists#6259 & cc#1775, ARS#1799, FP#1047, NAQCC#483, SKCC#2922,
QRP-ARCI#13328, Houston QRP Club, HQRP Fists#11025, KCARC/Abilene, Zombie#839

From: martin <kb0hae@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, January 18, 2009 5:20:14 PM
Subject: Re: [TS-520_820_530_830] KENWOOD MICROPHONE CONNECTOR

Hi. I have to say that if you can't find the proper mic plug, you are
just not looking. Radio Shack carries them. Don't have an RS store?
Anyplace that sells electronic parts or CB radios should have them. If
you cannot find one locally, you can order them from hundreds of places
on the internet. I am sure Mouser Electronics has them, and no minimum
order. They can also be found on eBay.

Get out the phone book and call around. Look on the internet. One
place or the other you will find them if you look. ;^))

TTYL

Ron Pearson wrote:
> John... In case you can't find one, what I did was solder a female clip to each of the wires on the mic. I plugged each one into the proper male clip in the radio and just leave the mic plugged in. Looks bad, but works fine...
> Ron/W5RCP
>
>
> 100% CW, 100% of the Time
> Fists#6259 & cc#1775, ARS#1799, FP#1047, NAQCC#483, SKCC#2922,
> QRP-ARCI#13328, Houston QRP Club, HQRP Fists#11025, KCARC/Abilene, Zombie#839
>
>
>
>
> ---
> From: popzemail <popzemail@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, January 17, 2009 10:43:19 AM
> Subject: [TS-520_820_530_830] KENWOOD MICROPHONE CONNECTOR
>

> Greetings Group, could someone suggest a supplier for a 'standard'
> round 4 pin microphone connector that will fit a TS-520S / TS-830S?
>
> Thanks in Advance, John
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
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>
>
>
>
> [Non-text portions of this message have been removed]
>
>

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CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to: www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at
http://www.defectivebydesign.org/what_is_drm"

Yahoo! Groups Links

[Non-text portions of this message have been removed]

19722. Re: [TS-520_820_530_830] KENWOOD MICROPHONE CONNECTOR

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-19 00:31:10 UTC
From: Walter A. Breining
Topic: 19709 Message: 19722

-
Most CB microphones use these. the cord wiring is not the same but the plug is the same.

Truck Stops, CB shops, and as mentioned before Radio Shack usually have them.

Check trash cans at truck stop fuel islands for discarded CB mikes.

These are probably the most easily obtained mike plugs of all the designs.

If you know a truck driver or a active CB operator, see if they have an olde mike laying around that is bad or of no use. If it is a CB operator, give them a pitch about ham radio while you are at it.

Vy 73, Walt N9WB

---- Original Message -----
From: popzemail
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, January 17, 2009 11:43 AM
Subject: [TS-520_820_530_830] KENWOOD MICROPHONE CONNECTOR

Greetings Group, could someone suggest a supplier for a 'standard' round 4 pin microphone connector that will fit a TS-520S / TS-830S?

Thanks in Advance, John

19723. Re:520 Series Cabinet Top

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-19 02:34:00 UTC
From: Rich Jones
Topic: 19707 Message: 19723

Unless you have a giant dent in your 520s cabinet top, look in phone book for "powder coat painting" and get both top and bottom done. They will find a color very close to origional and you will be happy and better off price wise I believe with new pained cabinet. I have a Hallifcrafters HT37 job done and it looks better than new. Good luck, Rich K8UV

[Non-text portions of this message have been removed]

19724. Re: [TS-520_820_530_830] KENWOOD MICROPHONE CONNECTOR

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-19 02:37:54 UTC
From: martin
Topic: 19709 Message: 19724

Hi Ron. At least you have a mic that you can use until you get a plug.
I have been lucky enough to get a MC-50 mic with my TS-530S, and
recently bought a TS-130SE that came with a Kenwood MC-30S hand mic. I
also was able to make a trade for a MC-42S that I have rewired
(originally an 8 pin mic) to use with my radios as a spare.

I have seen Kenwood mic fairly often on eBay lately, but they seem to go
for rather high prices. As I have found out in years past though,
pretty much any hand mic and a lot of desk mics will sound good on these
older Kenwood radios.

TTYL

Ron Pearson wrote:
> You're right! I wasn't looking. Using my Tempo One mic until I can find one for the
TS-520S.
> Ron/W5RCP
>
>
> 100% CW, 100% of the Time
> Fists#6259 & cc#1775, ARS#1799, FP#1047, NAQCC#483, SKCC#2922,
> QRP-ARCI#13328, Houston QRP Club, HQRP Fists#11025, KCARC/Abilene, Zombie#839
>
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

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http://www.defectivebydesign.org/what_is_drm"

19725. Adjusting the AF unit 9v and 3.3v TS-820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-19 03:29:29 UTC
From: mikefr24
Topic: 19725 Message: 19725

I did a lot of reading on this forum and I found instructions on how to adjust the 9v and 3.3v on the AF Unit using VR1 and VR4. I adjusted VR1 until the voltage was 3.3v (it was 2.5v). I am having trouble getting the 9v. I am measuring only 5.8v and no matter how much I adjust VR4, it will not change. Maybe I am not measuring in the right spot? I am measuring voltage between the chassis and pin1 on the AF1 plug.

This all came about because my S meter is not very sensitive (it only twitches with a S9 signal) and also the radio has a bit of drift.

Thanks,

Mike

19726. Re: [TS-520_820_530_830] Re:520 Series Cabinet Top

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-19 03:52:23 UTC
From: jsloss
Topic: 19707 Message: 19726

I should have clarified my previous post. The cabinet top I need to replace is full of 1/4 to 3/8 inch holes by previous owner.

Joe k7mks

[Non-text portions of this message have been removed]

19727. Re: [TS-520_820_530_830] Adjusting the AF unit 9v and 3.3v TS-820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-19 04:02:05 UTC
From: N6WK
Topic: 19725 Message: 19727

Mike,
Do you show 14 volts on pin3 of the AF1 connector to ground?

mikefr24 wrote:
>
> I did a lot of reading on this forum and I found instructions on how
> to adjust the 9v and 3.3v on the AF Unit using VR1 and VR4. I
> adjusted VR1 until the voltage was 3.3v (it was 2.5v). I am having
> trouble getting the 9v. I am measuring only 5.8v and no matter how
> much I adjust VR4, it will not change. Maybe I am not measuring in
> the right spot? I am measuring voltage between the chassis and pin1
> on the AF1 plug.
>
> This all came about because my S meter is not very sensitive (it only
> twitches with a S9 signal) and also the radio has a bit of drift.
>
> Thanks,
>
> Mike
>
>
> Messages in this topic
> <http://groups.yahoo.com/group/TS-520_820_530_830/message/19725;_ylc=X3oDMTM2dTQ4ZmliBF9
TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzE5NzI1BHNlYwNmdHIEc2xrA
3Z0cGMEc3RpbWUDMTIzMjMzNTc3MQR0cGNJZAMxOTcyNQ-->
> (1)
> <http://groups.yahoo.com/group/TS-520_820_530_830/post;_ylc=X3oDMTJxZjQwamlxBF9TAzk3MzU5
NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzE5NzI1BHNlYwNmdHIEc2xrA3JwbHkEc3
RpbWUDMTIzMjMzNTc3MQ--?act=reply&messageNum=19725>

19728. Re: Adjusting the AF unit 9v and 3.3v TS-820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-19 09:44:04 UTC
From: mikefr24
Topic: 19725 Message: 19728

--- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@...> wrote:
>
> Mike,
> Do you show 14 volts on pin3 of the AF1 connector to ground?
>
>
>
> mikefr24 wrote:
> >
> > I did a lot of reading on this forum and I found instructions on how
> > to adjust the 9v and 3.3v on the AF Unit using VR1 and VR4. I
> > adjusted VR1 until the voltage was 3.3v (it was 2.5v). I am having
> > trouble getting the 9v. I am measuring only 5.8v and no matter how
> > much I adjust VR4, it will not change. Maybe I am not measuring in
> > the right spot? I am measuring voltage between the chassis and pin1
> > on the AF1 plug.
> >
> > This all came about because my S meter is not very sensitive (it only
> > twitches with a S9 signal) and also the radio has a bit of drift.
> >
> > Thanks,
> >
> > Mike
> >
> >
> > Messages in this topic
> >
<http://groups.yahoo.com/group/TS-520_820_530_830/message/19725;_ylc=X3oDMTM2dTQ4ZmliBF9TA
zk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzE5NzI1BHNlYwNmdHIEc2xrA3Z
0cGMEc3RpbWUDMTIzMjMzNTc3MQR0cGNJZAMxOTcyNQ-->

> > (1)
> >
<http://groups.yahoo.com/group/TS-520_820_530_830/post;_ylc=X3oDMTJxZjQwamlxBF9TAzk3MzU5Nz
E0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzE5NzI1BHNlYwNmdHIEc2xrA3JwbHkEc3Rp
bWUDMTIzMjMzNTc3MQ--?act=reply&messageNum=19725>
>

I am getting 12.55V on pin#3 Is there a way to adjust that?

Mike

19729. Re: KENWOOD MC MICROPHONE CONNECTOR

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-19 14:12:17 UTC
From: Rich Jones
Topic: 19708 Message: 19729

Beware of Radio Shack 4 pin connector on the chassis side. It is different length than most. I found this out when replacing one on a SB-104, granted not Kenwood but still a differrence. The microphone side makes no difference of course. FYI, Rich K8UV

[Non-text portions of this message have been removed]

19730. Re: KENWOOD MICROPHONE CONNECTOR

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-19 14:15:18 UTC
From: Rich Jones
Topic: 19709 Message: 19730

Check trash cans at truck stop fuel islands for discarded CB mikes.

Now that would be a site around some of the truck stops I have pulled into. Don't forget, empty pop and beer cans in Michigan are worth a dime!

[Non-text portions of this message have been removed]

19731. Re: Adjusting the AF unit 9v and 3.3v TS-820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-19 15:26:12 UTC
From: w5rkl
Topic: 19725 Message: 19731

Hello Mike,

Unfortunately, there is no way to adjust the 14 volts. The 14 volt supply is the basis for the 3.3VDC, 5VDC, and 9VDC. The 14 volt supply also powers other circuits and the relay. Naturally if the 14 volt supply is low due to component failure on the RELAY UNIT, then the 3.3VDC, 5VDC, and 9VDC sources will also be affected.

I recommend cleaning the plugs and pins on the RELAY UNIT first. If that does not improve the voltage then I suspect one or both of the 2200ufd 25VDC radial lead capacitors on the RELAY UNIT may be failing, dragging down the 14 volt supply. The two capacitors in question are located on the RELAY UNIT board on the bottom of the 820. The RELAY UNIT is the only board with a plug in relay and two radial lead filter capacitors mounted on the board. The key here is to ensure the 3.3VDC and 9VDC on the AF AVR units is good plus the 5VDC on the RELAY UNIT's RL-1 plug pin 14 is good. The 5VDC on RL-1 plug pin 14 and 9VDC from the AF AVR unit powers the PLL ASSEMBLY UNIT's logic circuits. The 9VDC also powers the VFO and if both voltages are low the 820 will drift quite a bit.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@...>
wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@> wrote:
> >
> > Mike,
> > Do you show 14 volts on pin3 of the AF1 connector to ground?
> >
> >
> >
> > mikefr24 wrote:
> > >
> > > I did a lot of reading on this forum and I found instructions on how
> > > to adjust the 9v and 3.3v on the AF Unit using VR1 and VR4. I
> > > adjusted VR1 until the voltage was 3.3v (it was 2.5v). I am having
> > > trouble getting the 9v. I am measuring only 5.8v and no matter how
> > > much I adjust VR4, it will not change. Maybe I am not measuring in
> > > the right spot? I am measuring voltage between the chassis and pin1
> > > on the AF1 plug.
> > >
> > > This all came about because my S meter is not very sensitive (it

only
> > > twitches with a S9 signal) and also the radio has a bit of drift.
> > >
> > > Thanks,
> > >
> > > Mike
> > >
> > >
> > > Messages in this topic
> > >
>
<http://groups.yahoo.com/group/TS-520_820_530_830/message/19725;_ylc=X3oDMTM2dTQ4ZmliBF9TA
zk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzE5NzI1BHNlYwNmdHIEc2xrA3Z
0cGMEc3RpbWUDMTIzMjMzNTc3MQR0cGNJZAMxOTcyNQ-->
>
> > > (1)
> > >
>
<http://groups.yahoo.com/group/TS-520_820_530_830/post;_ylc=X3oDMTJxZjQwamlxBF9TAzk3MzU5Nz
E0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzE5NzI1BHNlYwNmdHIEc2xrA3JwbHkEc3Rp
bWUDMTIzMjMzNTc3MQ--?act=reply&messageNum=19725>
> >
>
> I am getting 12.55V on pin#3 Is there a way to adjust that?
>
> Mike
>

19732. Re: [TS-520_820_530_830] Re: Adjusting the AF unit 9v and 3.3v TS-820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-19 18:31:36 UTC
From: N6WK
Topic: 19725 Message: 19732

Mike,
No, But you might want to check and see what your line voltage is.
Sounds like it might be low.
Next I would check to be sure the diodes D8, D9,D10 and D11 on the
Rectifier unit.
How accurate is your test meter?

Gordon

mikefr24 wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, N6WK <n6wk@...> wrote:
> >
> > Mike,
> > Do you show 14 volts on pin3 of the AF1 connector to ground?
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> >
> >
> > mikefr24 wrote:
> > >
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> > >
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> > > twitches with a S9 signal) and also the radio has a bit of drift.
> > >
> > > Thanks,
> > >
> > > Mike
>
>
>
> I am getting 12.55V on pin#3 Is there a way to adjust that?
>
> Mike
>
>

19733. Precautions to prevent "fixers" of hybrid rigs (worthy discussion) NN4P

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-19 15:57:02 UTC
From: Brian G. Jett
Topic: 19733 Message: 19733

Good day! And a Happy New Year!

My name is Brian Jett and I wanted to get group input as well as some preventative measures for those of us who toy around with fixing Kenwood hybrid rigs. Any tube radio or other for that matter and the danger and pontential for hurting oneself by not using proper common sense steps. In short, I am scheduled to see an orthopedist due my carelessness in working on a TS-530SP. Top off and tubes exposed and heater on, I became hurried or simply wasn't thinking (obviously) and touched the cap on one of the 6146B new tubes I replaced. My Lord, what a jolt and the rig and mic literally were forced back (law of resistence or force) against the wall. I am surprised my wife didn't wake up as the shack is below our bedroom. While I am "painfully" aware of my stupidy, this I suspect happens more than we hear of and my ego mended well before my right arm which still hurts and strains now when holding a coffee cup for a period of time. The burn marks or where the voltage busted open the skin on my thumb and index finger (right hand) is still slightly visible after the blunder some eight weeks ago. Not sure what damage to my arm was incurred, but it flat hurts and isn't getting any better with time - conversely - worse.

Some are reading and laughing as it is totally silly and the visual likely of my shout "heard around the nation" with the rig, mic and this rube convulsing for a few seconds upon the "shock" of it all would open up comic review of more than overviewing precautions.

So, if one knows by personal experience what can happen to the human body from such currrent and some "common sense" help and steps to prevent "common sense" to be more overtly common b/f the next "fixer" blows out his or her joints or worse, it would be a worthy discussion.

Yours truly and truly plumb goofy,

73s thankfully not QRT permanently....
Brian "No Clue" Jett

NN4P
Vanity Call didn't help me at all when that volt bid for my full attention. (Smile) Can know at least.

/// God's best to you this year...

19734. MFJ 993B and using it with the Kenwood TS830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-19 16:55:27 UTC
From: peglegkd5gyg
Topic: 19734 Message: 19734

does anybody have any experience using the MFJ 993b auto tuner and the Kenwood ts-830. If so I have some operational questions about using this tuner with this radio.

Thanks
Chris
KD5GYG

feel free to email me direct if you wish

KD5GYG@...

19735. Re: [TS-520_820_530_830] How to allign the VFO knob.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-19 18:50:07 UTC
From: Daniel TOESCA
Topic: 19717 Message: 19735

Hi Mike,

This problem was reported some time ago - 2 or 3 months I guess.

The solution given by Dave is OK for the kHz dial in the lower window - it's the way you have to calibrate the kHz dial reading per the user's manual, but not for the 100 kHz dial in the upper window, and your picture show clearly the problem.

Search the files with ' dial ' and you probably will find it.

As I remember, the procedure is covered by the TS-820 service manual you can download for free at several places on the web.

It's a little bit tricky but not that difficult.

Good luck & 73's - Daniel, ON5PY

2009/1/18, mikefr24 <mikefr24@...>:
>
> Hey guys,
>
> I have had a TS-820S for a long time and recently dusted it off and
> fired it up. I noticed that the VFO knob does not match what the
> digital display says. I guess its not a huge deal but I would like it
> to be right. Before I open the radio and mess with it myself I
> thought I would ask and see if there is a standard way to align the
> knob.
>
> See the following link for a picture of my problem.
>
> http://www.freemansgarage.com/images/ts820s.JPG
>
> Thanks,
> Mike
>
>
>

[Non-text portions of this message have been removed]

19736. Re: [TS-520_820_530_830] How to allign the VFO knob.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-19 20:54:37 UTC
From: KE5GEO
Topic: 19717 Message: 19736

Here are some E-Mails, I got for a similar problem, which worked for me, once I figured it all out.

Re: [TS-520_820_530_830] Re: TS-820 DG-1 Display tube

Thank you SO much for the help! It took me a while to figure out that the mounting plate for the inner dial was on a collar with a set screw which could be adjusted so that the 5 on the inner dial could be placed at the One o'clock position. Once I noticed the set screw, it was just a matter of trial and error to get the final minor adjustments "just right" so everything lines up correctly, and is synched with the digital display.

Incidentally, the digital diplay "went out" again this morning, but I was able to just remove the display tubes (and their PC board mounts), clean the mounting screw holes and I then placed a star washer on the screws. I reassembled all of that and the digital display is working like it should, and now the vernier display is also working correctly!
Thanks again!
73 de KE5GEO

----- Original Message -----
From: w5rkl
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, August 03, 2008 5:49 PM
Subject: [TS-520_820_530_830] Re: TS-820 DG-1 Display tube

Before removing the escutcheon, make a mental note of the thin red vertical calibration line on the escutcheon's small clear dial window.

The inner dial contains the 1, 2, 3, 4, and 5, numbers that appear in the outer dials small window. For example if you tune the VFO to 7.000, the outer dial "zero zero" marker should be in line with the thin red calibration line on the escutcheon and nothing should be showing in the "zero zero" window. Tuning the VFO to 7.100, the outer dial's small window should now show "1".

The starting point for the inner dial is to place the inner dial on the VFO shaft with the number "5" at the "one o'clock" position and tighten the dial's set screw. Then place the outer dial on the VFO tuning shaft with the "zero zero" dial marker in line with the thin red calibration line. The outer dials small window should be blank, nothing showing in the window.

You more than likely will have to make adjustments to both dials to ensure this happens.

I applogize for the using the numeric "1" instead of writting out the word which caused confusion. In addition, I also stated "00" on the inner dial which I actually meant the outer dial. I failed to remove it in my response and I appologize for that.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "KE5GEO" <KE5GEO@...> wrote:
>
> If I'm reading this right, the "key" to getting the vernial dial diplay to agree/work right with the digital is to orient the inner dial so that the 5 on the wheel is at the 10 o'clock position. What position should the other number/frequency dials be set to? 00, 100, 200, 300 or what? When I got my 820S the inner dial did not agree with the frequency readout, so I removed the inner dial. Later the digital frquency dispaly went out, (no digits/wrong digits etc.) but I was able to cure that problem by removing the digital display, and cleaning the 4 screws/holes which held it in place, then reinstalling it. The digital works fine now, but I would like to get the vernier dial working properly again.
> ----- Original Message -----
> From: w5rkl
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, August 03, 2008 3:07 PM
> Subject: [TS-520_820_530_830] Re: TS-820 DG-1 Display tube
>
>
> "Snipped"
>
> The key to proper dial alignment on the 820 is the position of the
> inner dial on the VFO tuning shaft and the position of the inner
> dial's number "5" in relation to a clocks hour hand. A starting point
> is for number 5 on the inner dial to be at 1 o'clock. This is
> important for the proper sequencing of numbers to show up, 00, 1, 2,
> 3, 4, and 5, in the outer dial square windows. If the inner dial
> is not aligned properly on the VFO tuning shaft, the numbers will not
> display correctly in the outer dial's square windows or there will be
> no numbers showing in the outer dial's square windows at 100khz intervals.
>
> The main tuning knob and the calibration knob should not rub against
> one another and/or against the front panel's escutcheon. The inner and
> outer dials must also not rub against themselves or anything else such
> as wiring etc. Tuning should be as smooth as oil on glass throughout
> the tuning range of the 820's VFO. My 820 had similar problems as you
> are having when I first received it. After careful dial and knob
> alignment, I achieve tuning that is smooth as oil on glass with my
> 820. The VFO-820 has the same dial and knob alignment procedures and
> it too should tune as smooth as oil on glass when the dial and knob
> alignment is done properly.

>
> 73
> Mike
> W5RKL

Hope it works for you too.
73 de KE5GEO

----- Original Message -----
From: Daniel TOESCA
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, January 19, 2009 12:50 PM
Subject: Re: [TS-520_820_530_830] How to allign the VFO knob.

Hi Mike,

This problem was reported some time ago - 2 or 3 months I guess.

The solution given by Dave is OK for the kHz dial in the lower window - it's the way you have to calibrate the kHz dial reading per the user's manual, but not for the 100 kHz dial in the upper window, and your picture show clearly the problem.

Search the files with ' dial ' and you probably will find it.

As I remember, the procedure is covered by the TS-820 service manual you can download for free at several places on the web.

It's a little bit tricky but not that difficult.

Good luck & 73's - Daniel, ON5PY

2009/1/18, mikefr24 <mikefr24@...>:
>
> Hey guys,
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> fired it up. I noticed that the VFO knob does not match what the
> digital display says. I guess its not a huge deal but I would like it
> to be right. Before I open the radio and mess with it myself I
> thought I would ask and see if there is a standard way to align the
> knob.
>
> See the following link for a picture of my problem.
>
> http://www.freemansgarage.com/images/ts820s.JPG
>
> Thanks,
> Mike
>
>
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

19737. Couple of problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-19 19:47:19 UTC
From: rickoreair
Topic: 19737 Message: 19737

I recently started rehabing my old TS530 trying to fix one problem at a time. The receive audio was almost non existent, and I found a bad AF pot. I replaced the pot, and the audio is much better, but still not as good as it should be. With the RF and the AF pots fully open, the audio is just below what I would consider normal listening level. Any ideas what to check next?

2nd problem is there is no transmitter output. I have replaced the RF board, and the 6146 PC board. The RF board had a couple of burned components, and one of the top caps on one of the 6146's was burned. (lightning??) High voltage reads good when the meter switch is in the HV position, but ALC and IP don't read anything, as I try to tune as per the manual. Any other checks before I replace the 6146's??

Thanks for any help.

Rick WB4BSP

19738. KENWOOD MC MICROPHONE CONNECTOR

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-19 21:21:40 UTC
From: John Hetherington
Topic: 19708 Message: 19738

Thanks very much to everyone for the prompt replies, I should have mentioned I'm in Canada.

We have no CB, trucker or independent electronic stores anywhere close by so it looks like I'll have to wait for the Orlando HamCation next month as we have no Radio Shack stores left here either. They were replaced (sort of) by the Source but they don't carry them & can't or won't? order them. Mail order from the US is $16+ parts - way over the budget!!

I know it's a long way to travel but we have to do our part to support the Florida economy, LOL ;-)

73's

John

VE3IZM

[Non-text portions of this message have been removed]

19739. Re: [TS-520_820_530_830] KENWOOD MC MICROPHONE CONNECTOR

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-19 21:43:33 UTC
From: ve3wej gmail
Topic: 19708 Message: 19739

try laser electonics in AYR, ontario (outside of cambridge)

VE3WEJ
Dave Garber

10-X # 23465
echolink # 52852
irlp node 2202
email ve3wej@...
----- Original Message -----
From: John Hetherington
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, January 19, 2009 4:21 PM
Subject: [TS-520_820_530_830] KENWOOD MC MICROPHONE CONNECTOR

Thanks very much to everyone for the prompt replies, I should have mentioned I'm in Canada.

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I know it's a long way to travel but we have to do our part to support the Florida economy, LOL ;-)

73's

John

VE3IZM

[Non-text portions of this message have been removed]

19740. 4 pin mike connector for ve3izm

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-19 21:46:03 UTC
From: ve3wej gmail
Topic: 19740 Message: 19740

also try va3dvr, in st thomas....

if you know him

VE3WEJ
Dave Garber

10-X # 23465
echolink # 52852
irlp node 2202
email ve3wej@...

19741. Re: Adjusting the AF unit 9v and 3.3v TS-820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-19 22:03:45 UTC
From: mikefr24
Topic: 19725 Message: 19741

Thanks for the response. I found the Relay unit and cleaned the plugs
with deoxit. No luck with that. Next I tested the voltage on the
pins. Pin 14 seems to be a ground however pin 13 reads 4.76v.
Here is what I measured on all the pins on RL-1

14) 0v Ground?
13) 4.76v
12)12.8v
11)12.8v
10)12.7v
9)12.7v
8)12.8v
7)12.8v
6)30v
5)13.58v
4)2.25v
3)5.8v

I do not have any 2200uf caps laying around. I will have to order some.

Mike

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello Mike,
>
> Unfortunately, there is no way to adjust the 14 volts. The 14 volt
> supply is the basis for the 3.3VDC, 5VDC, and 9VDC. The 14 volt supply
> also powers other circuits and the relay. Naturally if the 14 volt
> supply is low due to component failure on the RELAY UNIT, then the
> 3.3VDC, 5VDC, and 9VDC sources will also be affected.
>
> I recommend cleaning the plugs and pins on the RELAY UNIT first. If
> that does not improve the voltage then I suspect one or both of the
> 2200ufd 25VDC radial lead capacitors on the RELAY UNIT may be failing,
> dragging down the 14 volt supply. The two capacitors in question are
> located on the RELAY UNIT board on the bottom of the 820. The RELAY
> UNIT is the only board with a plug in relay and two radial lead filter
> capacitors mounted on the board. The key here is to ensure the 3.3VDC
> and 9VDC on the AF AVR units is good plus the 5VDC on the RELAY UNIT's
> RL-1 plug pin 14 is good. The 5VDC on RL-1 plug pin 14 and 9VDC from
> the AF AVR unit powers the PLL ASSEMBLY UNIT's logic circuits. The
> 9VDC also powers the VFO and if both voltages are low the 820 will
> drift quite a bit.
>
> 73

> Mike
> W5RKL
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@>
> wrote:
> >
> > --- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@> wrote:
> > >
> > > Mike,
> > > Do you show 14 volts on pin3 of the AF1 connector to ground?
> > >
> > >
> > >
> > > mikefr24 wrote:
> > > >
> > > > I did a lot of reading on this forum and I found instructions
on how
> > > > to adjust the 9v and 3.3v on the AF Unit using VR1 and VR4. I
> > > > adjusted VR1 until the voltage was 3.3v (it was 2.5v). I am having
> > > > trouble getting the 9v. I am measuring only 5.8v and no matter how
> > > > much I adjust VR4, it will not change. Maybe I am not measuring in
> > > > the right spot? I am measuring voltage between the chassis and
pin1
> > > > on the AF1 plug.
> > > >
> > > > This all came about because my S meter is not very sensitive (it
> only
> > > > twitches with a S9 signal) and also the radio has a bit of drift.
> > > >
> > > > Thanks,
> > > >
> > > > Mike
> > > >
> > > >
> > > > Messages in this topic
> > > >
> > >
>
<http://groups.yahoo.com/group/TS-520_820_530_830/message/19725;_ylc=X3oDMTM2dTQ4ZmliBF9TA
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> >
> > > > (1)
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> >
>
<http://groups.yahoo.com/group/TS-520_820_530_830/post;_ylc=X3oDMTJxZjQwamlxBF9TAzk3MzU5Nz

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> > >
> >
> > I am getting 12.55V on pin#3 Is there a way to adjust that?
> >
> > Mike
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>

19742. Re: Adjusting the AF unit 9v and 3.3v TS-820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-19 22:45:27 UTC
From: w5rkl
Topic: 19725 Message: 19742

I'm sorry, I mistyped RL-1 pin 14 as the 5VDC. Pin 14 is ground. Pin 13 is the 5VDC.

The following are the RELAY UNIT's RL-1 plug identification labels and normal voltages.

If the AF AVR UNIT's AF1 pins 1 and 2 indicate less than 9VDC then the RELAY UNIT's RL-1 pins 1, 2, and 3 will show the same as AF AVR UNIT's AF1 pins 1 and 2.

RL-1 pin 4 is the AGC/ALC (AGL) line switched by relay connection RL-14 on the RELAY UNIT between receive and transmit. Voltage varies depending on incoming signal strength in receive and ALC voltage produced in transmit.

RL-1 pin 5 is from the RECTIFIER UNIT's "14" pin. It should be approximately 14VDC.

RL-1 pin 6 is ground. This pin is also connected to RL-1 pin 14. There should be zero voltage on this pin. I see you indicate "30V" on this pin in your 820. Are you sure?

RL-1 pins 7 thru 12 are 14VDC. This is the source 14VDC to the AF AVR Unit AF1 pin 3 as well as a few other boards. A lower voltage here will cause the 9VDC to be less as well as the 14VDC to the other boards.

RL-1 pin 13 is 5VDC. This voltage powers the PLL ASSEMBLY UNIT 5 volt logic circuits.

RL-1 pin 14 is ground, also connected to RL-1 pin 6.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@...> wrote:
>
> Thanks for the response. I found the Relay unit and cleaned the plugs
> with deoxit. No luck with that. Next I tested the voltage on the
> pins. Pin 14 seems to be a ground however pin 13 reads 4.76v.
> Here is what I measured on all the pins on RL-1

RL-1 plug pin 5 is the source 14VAC from the power transformer's 14VAC secondary windings.

>
> 14) 0v Ground?

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> 12)12.8v
> 11)12.8v
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> > the AF AVR unit powers the PLL ASSEMBLY UNIT's logic circuits. The
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> > 73
> > Mike
> > W5RKL
> >
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@>

> > wrote:
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<http://groups.yahoo.com/group/TS-520_820_530_830/message/19725;_ylc=X3oDMTM2dTQ4ZmliBF9TA
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> > >
> >
>
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bWUDMTIzMjMzNTc3MQ--?act=reply&messageNum=19725>
> > > >
> > >
> > > I am getting 12.55V on pin#3 Is there a way to adjust that?
> > >
> > > Mike
> > >
> >
>

19743. Re:520 Series Cabinet Top

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-19 23:37:09 UTC
From: Steve
Topic: 19707 Message: 19743

--- In TS-520_820_530_830@yahoogroups.com, "jsloss" <k7mks@...> wrote:
>
> I should have clarified my previous post. The cabinet top I need to replace is full of 1/4 to 3/8 inch holes by previous owner.

What were they thinking? "This old heavy radio will work great as a workbench!) ;)

Good luck 73
AI4NV

19744. Re: [TS-520_820_530_830] Re:520 Series Cabinet Top

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-20 00:30:32 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 19707 Message: 19744

On Mon, 2009-01-19 at 23:37 +0000, Steve wrote:
> --- In TS-520_820_530_830@yahoogroups.com, "jsloss" <k7mks@...> wrote:
> >
> > I should have clarified my previous post. The cabinet top I need to
> replace is full of 1/4 to 3/8 inch holes by previous owner.
>
>
> What were they thinking? "This old heavy radio will work great as a
> workbench!) ;)

0.22 to 0.38 holes? "Tune you b*****d, tune! <BANG BANG BANG>"

Gordon

19745. Shameless Advertisement

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-20 03:33:48 UTC
From: boat.anchor
Topic: 19745 Message: 19745

For those who are interested I have listed my AT-250 on eBay.
Item number 330302036900

For those desiring a complete Kenwood station one thing I have not seen discussed much is the DM-81 Dip Meter. I also listed a nice one.
Item number 330302038065

regards from Vancouver where the sea level temp was 33F today and the temp on top the local ski hills hit 80F.
Barry

19746. Re:520 Series Cabinet Top

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-20 03:45:36 UTC
From: boat.anchor
Topic: 19707 Message: 19746

Cheaper than replacing the fan.
regards
Barry

--- In TS-520_820_530_830@yahoogroups.com, "Steve" <wrench101@...>
wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "jsloss" <k7mks@> wrote:
> >
> > I should have clarified my previous post. The cabinet top I need
to
> replace is full of 1/4 to 3/8 inch holes by previous owner.
>
>
> What were they thinking? "This old heavy radio will work great as a
> workbench!) ;)
>
> Good luck 73
> AI4NV
>

19747. Re: Adjusting the AF unit 9v and 3.3v TS-820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-20 04:03:32 UTC
From: mikefr24
Topic: 19725 Message: 19747

I got it working! I took the AF unit and the RELAY unit out. I cleaned the ground area where the screws tighten really good and when I put them back in I was able to read all the correct voltages. They were off a bit so I adjusted them to 9v and 3.3v. Also the 30V on pin 6 was a misread on my part. It was 30uV. I did not notice the Volt scale changed on me. The S meter is alive again too.

My radio is kicking once again and I thank everyone who helped me out.

This is my only HF Radio so its gotta stay alive. I should just go buy a new one but since this one keeps on working I always talk myself out of it.

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
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> 13 is the 5VDC.
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> RELAY UNIT's RL-1 pins 1, 2, and 3 will show the same as AF AVR UNIT's
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> pin in your 820. Are you sure?
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> RL-1 pins 7 thru 12 are 14VDC. This is the source 14VDC to the AF AVR
> Unit AF1 pin 3 as well as a few other boards. A lower voltage here
> will cause the 9VDC to be less as well as the 14VDC to the other boards.
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> RL-1 pin 13 is 5VDC. This voltage powers the PLL ASSEMBLY UNIT 5 volt
> logic circuits.
>

> RL-1 pin 14 is ground, also connected to RL-1 pin 6.
>
>
>
> 73
> Mike
> W5RKL
>
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@>
> wrote:
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> > I do not have any 2200uf caps laying around. I will have to order
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> > > wrote:
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@> wrote:
> > > > >
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<http://groups.yahoo.com/group/TS-520_820_530_830/message/19725;_ylc=X3oDMTM2dTQ4ZmliBF9TA
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bWUDMTIzMjMzNTc3MQ--?act=reply&messageNum=19725>
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> > > >
> > > > Mike
> > > >
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> >
>

19748. Re: [TS-520_820_530_830] Re: Adjusting the AF unit 9v and 3.3v TS-820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-20 04:05:10 UTC
From: N6WK
Topic: 19725 Message: 19748

Good Fix Mike,
and Thank you for sharing the root cure.

73,
Gordon

mikefr24 wrote:
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>
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> cleaned the ground area where the screws tighten really good and when
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> > <http://groups.yahoo.com/group/TS-520_820_530_830/message/19725;_ylc=X3oDMTM2dTQ4ZmliBF9
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19749. Re: [TS-520_820_530_830] Re: Adjusting the AF unit 9v and 3.3v TS-820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-20 04:19:27 UTC
From: Bill & Becky Marvin
Topic: 19725 Message: 19749

Great Mike!! When I work on Kenwoods etc I first treat all jacks, connectors I can reach but most importantly work all board
screws a few times to start at ground zero. Fine group suggestions from all.

Enjoy

Bill KB9IV

----- Original Message -----
From: mikefr24
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, January 19, 2009 10:03 PM
Subject: [TS-520_820_530_830] Re: Adjusting the AF unit 9v and 3.3v TS-820

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> > > > > > trouble getting the 9v. I am measuring only 5.8v and no
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> > > > > > much I adjust VR4, it will not change. Maybe I am not
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> > > > > > the right spot? I am measuring voltage between the chassis and
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> > > > > > on the AF1 plug.
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> > > > > > This all came about because my S meter is not very
sensitive (it
> > > only
> > > > > > twitches with a S9 signal) and also the radio has a bit of
> drift.
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> > > > > > Thanks,
> > > > > >
> > > > > > Mike
> > > > > >
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<http://groups.yahoo.com/group/TS-520_820_530_830/post;_ylc=X3oDMTJxZjQwamlxBF9TAzk3MzU5Nz
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bWUDMTIzMjMzNTc3MQ--?act=reply&messageNum=19725>

> > > > >
> > > >
> > > > I am getting 12.55V on pin#3 Is there a way to adjust that?
> > > >
> > > > Mike
> > > > >
> > > >
> > >
>

[Non-text portions of this message have been removed]

19750. Re: Couple of problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-20 08:54:05 UTC
From: rickoreair
Topic: 19737 Message: 19750

--- In TS-520_820_530_830@yahoogroups.com, "rickoreair"
<rickoreair@...> wrote:
>
> I recently started rehabing my old TS530 trying to fix one problem
at a
> time. The receive audio was almost non existent, and I found a bad
AF
> pot. I replaced the pot, and the audio is much better, but still
not
> as good as it should be. With the RF and the AF pots fully open,
the
> audio is just below what I would consider normal listening level.
Any
> ideas what to check next?
>
> 2nd problem is there is no transmitter output. I have replaced the
RF
> board, and the 6146 PC board. The RF board had a couple of burned
> components, and one of the top caps on one of the 6146's was
burned.
> (lightning??) High voltage reads good when the meter switch is in
the
> HV position, but ALC and IP don't read anything, as I try to tune
as
> per the manual. Any other checks before I replace the 6146's??
>
> Thanks for any help.
>
> Rick WB4BSP
>
By the way, my experience level is that of a neophyte. I'm an
electrician, and can follow instructions, but am NOT an experienced
electronics tech, so thanks in advance for your help.

19751. Re: Adjusting the AF unit 9v and 3.3v TS-820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-20 12:19:34 UTC
From: w5rkl
Topic: 19725 Message: 19751

Congratulations Mike!! Thank you for sharing your fix with all of us.
The 820 is a great transceiver as are all of the Kenwood hybrids.
Again, congratulations Mike. Have fun and enjoy.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@...>
wrote:
>
>
> I got it working! I took the AF unit and the RELAY unit out. I
> cleaned the ground area where the screws tighten really good and when
> I put them back in I was able to read all the correct voltages. They
> were off a bit so I adjusted them to 9v and 3.3v. Also the 30V on pin
> 6 was a misread on my part. It was 30uV. I did not notice the Volt
> scale changed on me. The S meter is alive again too.
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> My radio is kicking once again and I thank everyone who helped me out.
>
> This is my only HF Radio so its gotta stay alive. I should just go
> buy a new one but since this one keeps on working I always talk myself
> out of it.
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> >
> >
> > I'm sorry, I mistyped RL-1 pin 14 as the 5VDC. Pin 14 is ground. Pin
> > 13 is the 5VDC.
> >
> > The following are the RELAY UNIT's RL-1 plug identification labels and
> > normal voltages.
> >
> > If the AF AVR UNIT's AF1 pins 1 and 2 indicate less than 9VDC then the
> > RELAY UNIT's RL-1 pins 1, 2, and 3 will show the same as AF AVR UNIT's
> > AF1 pins 1 and 2.
> >
> > RL-1 pin 4 is the AGC/ALC (AGL) line switched by relay connection
> > RL-14 on the RELAY UNIT between receive and transmit. Voltage varies
> > depending on incoming signal strength in receive and ALC voltage

> > produced in transmit.
> >
> > RL-1 pin 5 is from the RECTIFIER UNIT's "14" pin. It should be
> > approximately 14VDC.
> >
> > RL-1 pin 6 is ground. This pin is also connected to RL-1 pin 14. There
> > should be zero voltage on this pin. I see you indicate "30V" on this
> > pin in your 820. Are you sure?
> >
> > RL-1 pins 7 thru 12 are 14VDC. This is the source 14VDC to the AF AVR
> > Unit AF1 pin 3 as well as a few other boards. A lower voltage here
> > will cause the 9VDC to be less as well as the 14VDC to the other
boards.
> >
> > RL-1 pin 13 is 5VDC. This voltage powers the PLL ASSEMBLY UNIT 5 volt
> > logic circuits.
> >
> > RL-1 pin 14 is ground, also connected to RL-1 pin 6.
> >
> >
> >
> > 73
> > Mike
> > W5RKL
> >
> >
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@>
> > wrote:
> > >
> > > Thanks for the response. I found the Relay unit and cleaned the
plugs
> > > with deoxit. No luck with that. Next I tested the voltage on the
> > > pins. Pin 14 seems to be a ground however pin 13 reads 4.76v.
> > > Here is what I measured on all the pins on RL-1
> >
> > RL-1 plug pin 5 is the source 14VAC from the power transformer's 14VAC
> > secondary windings.
> >
> >
> > >
> > > 14) 0v Ground?
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> > > 11)12.8v
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> > > 7)12.8v
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> > > 4)2.25v
> > > 3)5.8v
> > >
> > > I do not have any 2200uf caps laying around. I will have to order
> > some.
> > >
> > > Mike
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> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > > >
> > > > Hello Mike,
> > > >
> > > > Unfortunately, there is no way to adjust the 14 volts. The 14 volt
> > > > supply is the basis for the 3.3VDC, 5VDC, and 9VDC. The 14 volt
> > supply
> > > > also powers other circuits and the relay. Naturally if the 14 volt
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> > > > 3.3VDC, 5VDC, and 9VDC sources will also be affected.
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> > > > I recommend cleaning the plugs and pins on the RELAY UNIT
> first. If
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> of the
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> > > > located on the RELAY UNIT board on the bottom of the 820. The
> RELAY
> > > > UNIT is the only board with a plug in relay and two radial lead
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> > > > capacitors mounted on the board. The key here is to ensure the
> > 3.3VDC
> > > > and 9VDC on the AF AVR units is good plus the 5VDC on the RELAY
> > UNIT's
> > > > RL-1 plug pin 14 is good. The 5VDC on RL-1 plug pin 14 and
> 9VDC from
> > > > the AF AVR unit powers the PLL ASSEMBLY UNIT's logic circuits. The
> > > > 9VDC also powers the VFO and if both voltages are low the 820 will
> > > > drift quite a bit.
> > > >
> > > > 73
> > > > Mike
> > > > W5RKL
> > > >

> > > >
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@>
> > > > wrote:
> > > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@> wrote:
> > > > > >
> > > > > > Mike,
> > > > > > Do you show 14 volts on pin3 of the AF1 connector to ground?
> > > > > >
> > > > > >
> > > > > >
> > > > > > mikefr24 wrote:
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> > > > > > I did a lot of reading on this forum and I found
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> > > on how
> > > > > > to adjust the 9v and 3.3v on the AF Unit using VR1 and
VR4. I
> > > > > > adjusted VR1 until the voltage was 3.3v (it was 2.5v). I am
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> > matter how
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> > > > > > on the AF1 plug.
> > > > > >
> > > > > > This all came about because my S meter is not very
> sensitive (it
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> > drift.
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> > > > > > Thanks,
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> > > > > > Mike
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> > > > >
> > >
>

19752. Re: Adjusting the AF unit 9v and 3.3v TS-820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-20 23:42:24 UTC
From: mikefr24
Topic: 19725 Message: 19752

I got lucky cleaning some dirty contacts. You guys told me where to start looking. I appreciate all the excellent advice on my problem.

I do like the 820. It's huge and heavy and the tubes are fun even though they are way before my time.

How many 12v lamps are there supposed to be in the S meter? I only see one in mine.

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Congratulations Mike!! Thank you for sharing your fix with all of us.
> The 820 is a great transceiver as are all of the Kenwood hybrids.
> Again, congratulations Mike. Have fun and enjoy.
>
> 73
> Mike
> W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@>
> wrote:
> > >
> > >
> > > I got it working! I took the AF unit and the RELAY unit out. I
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> > > 6 was a misread on my part. It was 30uV. I did not notice the Volt
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> > > My radio is kicking once again and I thank everyone who helped me out.
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> > >
> > >
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> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > > >
> > > >
> > > >
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> > > > Mike
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> > > > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
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> > > > >
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> > > > > > > > >
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> > >

>

19753. Re: Adjusting the AF unit 9v and 3.3v TS-820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-21 03:15:16 UTC
From: w5rkl
Topic: 19725 Message: 19753

Mike,

The meter has "2" lamps and the VFO has one, each bulb's voltage rating is 12 volts.

Radio Shack use to sell small 12 volt "Wheat" lamps in pairs. I'm not sure if they still do, you could check the parts drawers.

I replaced the lamps in my 820 with Radio Shack 12 volt Wheat lamps about 2 years ago. The meter lamps failed about a month ago and I used the last two bulbs I had, gotta get some spares.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@...> wrote:
>
> I got lucky cleaning some dirty contacts. You guys told me where to
> start looking. I appreciate all the excellent advice on my problem.
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> I do like the 820. It's huge and heavy and the tubes are fun even
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> > 73
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> > > >
> > > > I'm sorry, I mistyped RL-1 pin 14 as the 5VDC. Pin 14 is
ground. Pin
> > > > 13 is the 5VDC.
> > > >
> > > > The following are the RELAY UNIT's RL-1 plug identification
> labels and
> > > > normal voltages.
> > > >
> > > > If the AF AVR UNIT's AF1 pins 1 and 2 indicate less than 9VDC
> then the
> > > > RELAY UNIT's RL-1 pins 1, 2, and 3 will show the same as AF AVR
> UNIT's
> > > > AF1 pins 1 and 2.
> > > >
> > > > RL-1 pin 4 is the AGC/ALC (AGL) line switched by relay connection
> > > > RL-14 on the RELAY UNIT between receive and transmit. Voltage
varies
> > > > depending on incoming signal strength in receive and ALC voltage
> > > > produced in transmit.
> > > >
> > > > RL-1 pin 5 is from the RECTIFIER UNIT's "14" pin. It should be
> > > > approximately 14VDC.
> > > >
> > > > RL-1 pin 6 is ground. This pin is also connected to RL-1 pin 14.
> There
> > > > should be zero voltage on this pin. I see you indicate "30V"

on this
> > > > pin in your 820. Are you sure?
> > > >
> > > > RL-1 pins 7 thru 12 are 14VDC. This is the source 14VDC to the
> AF AVR
> > > > Unit AF1 pin 3 as well as a few other boards. A lower voltage here
> > > > will cause the 9VDC to be less as well as the 14VDC to the other
> > boards.
> > > >
> > > > RL-1 pin 13 is 5VDC. This voltage powers the PLL ASSEMBLY UNIT 5
> volt
> > > > logic circuits.
> > > >
> > > > RL-1 pin 14 is ground, also connected to RL-1 pin 6.
> > > >
> > > >
> > > >
> > > > 73
> > > > Mike
> > > > W5RKL
> > > >
> > > >
> > > >
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@>
> > > > wrote:
> > > > >
> > > > > Thanks for the response. I found the Relay unit and cleaned the
> > plugs
> > > > > with deoxit. No luck with that. Next I tested the voltage
on the
> > > > > pins. Pin 14 seems to be a ground however pin 13 reads 4.76v.
> > > > > Here is what I measured on all the pins on RL-1
> > > >
> > > > RL-1 plug pin 5 is the source 14VAC from the power transformer's
> 14VAC
> > > > secondary windings.
> > > >
> > > >
> > > > >
> > > > > 14) 0v Ground?
> > > > > 13) 4.76v
> > > > > 12)12.8v
> > > > > 11)12.8v
> > > > > 10)12.7v
> > > > > 9)12.7v
> > > > > 8)12.8v
> > > > > 7)12.8v
> > > > > 6)30v

> > > > > 5)13.58v
> > > > > 4)2.25v
> > > > > 3)5.8v
> > > > >
> > > > > I do not have any 2200uf caps laying around. I will have to
order
> > > > some.
> > > > >
> > > > > Mike
> > > > >
> > > > >
> > > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@>
wrote:
> > > > > >
> > > > > > Hello Mike,
> > > > > >
> > > > > > Unfortunately, there is no way to adjust the 14 volts. The
> 14 volt
> > > > > > supply is the basis for the 3.3VDC, 5VDC, and 9VDC. The 14
volt
> > > supply
> > > > > > also powers other circuits and the relay. Naturally if the
> 14 volt
> > > > > > supply is low due to component failure on the RELAY UNIT,
> then the
> > > > > > 3.3VDC, 5VDC, and 9VDC sources will also be affected.
> > > > > >
> > > > > > I recommend cleaning the plugs and pins on the RELAY UNIT
> > first. If
> > > > > > that does not improve the voltage then I suspect one or both
> > of the
> > > > > > 2200ufd 25VDC radial lead capacitors on the RELAY UNIT may be
> > > failing,
> > > > > > dragging down the 14 volt supply. The two capacitors in
> > question are
> > > > > > located on the RELAY UNIT board on the bottom of the 820. The
> > RELAY
> > > > > > UNIT is the only board with a plug in relay and two radial
lead
> > > filter
> > > > > > capacitors mounted on the board. The key here is to ensure the
> > > 3.3VDC
> > > > > > and 9VDC on the AF AVR units is good plus the 5VDC on the
RELAY
> > > UNIT's
> > > > > > RL-1 plug pin 14 is good. The 5VDC on RL-1 plug pin 14 and
> > 9VDC from
> > > > > > the AF AVR unit powers the PLL ASSEMBLY UNIT's logic
> circuits. The

> > > > > > 9VDC also powers the VFO and if both voltages are low the
> 820 will
> > > > > > drift quite a bit.
> > > > > >
> > > > > > 73
> > > > > > Mike
> > > > > > W5RKL
> > > > > >
> > > > > >
> > > > > >
> > > > > >
> > > > > > --- In TS-520_820_530_830@yahoogroups.com, "mikefr24"
> <mikefr24@>
> > > > > > wrote:
> > > > > > >
> > > > > > > --- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@>
wrote:
> > > > > > > >
> > > > > > > > Mike,
> > > > > > > > Do you show 14 volts on pin3 of the AF1 connector to
ground?
> > > > > > > >
> > > > > > > >
> > > > > > > >
> > > > > > > > mikefr24 wrote:
> > > > > > > >
> > > > > > > > I did a lot of reading on this forum and I found
> > instructions
> > > > > > on how
> > > > > > > > to adjust the 9v and 3.3v on the AF Unit using VR1 and
> > VR4. I
> > > > > > > > adjusted VR1 until the voltage was 3.3v (it was 2.5v).
> I am
> > > > having
> > > > > > > > trouble getting the 9v. I am measuring only 5.8v and no
> > > > matter how
> > > > > > > > much I adjust VR4, it will not change. Maybe I am not
> > > > measuring in
> > > > > > > > the right spot? I am measuring voltage between the
> > chassis and
> > > > > > pin1
> > > > > > > > on the AF1 plug.
> > > > > > > >
> > > > > > > > This all came about because my S meter is not very
> > > > sensitive (it
> > > > > > only
> > > > > > > > twitches with a S9 signal) and also the radio has a
bit of
> > > > drift.
> > > > > > > >

> > > > > > > > > Thanks,
> > > > > > > > > >
> > > > > > > > > > Mike
> > > > > > > > > >
> > > > > > > > > >
> > > > > > > > > > Messages in this topic
> > > > > > > > > >
> > > > > > > > >
> > > > > > > > >
> > > > > > > >
> > > > > > >
> > > > > >
> > > > > <http://groups.yahoo.com/group/TS-520_820_530_830/message/19725;_ylc=X3oDMTM2dTQ4ZmliBF9TA
zk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzE5NzI1BHNlYwNmdHIEc2xrA3Z
0cGMEc3RpbWUDMTIzMjMzNTc3MQR0cGNJZAMxOTcyNQ-->
> > > > > > > > >
> > > > > > > > > > > > > > > > > (1)
> > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > >
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> > > > > >
> > > > > <http://groups.yahoo.com/group/TS-520_820_530_830/post;_ylc=X3oDMTJxZjQwamlxBF9TAzk3MzU5Nz
E0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzE5NzI1BHNlYwNmdHIEc2xrA3JwbHkEc3Rp
bWUDMTIzMjMzNTc3MQ--?act=reply&messageNum=19725>
> > > > > > > > > >
> > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > > I am getting 12.55V on pin#3 Is there a way to adjust
that?
> > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > > Mike
> > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > >

19754. Re: [TS-520_820_530_830] How to allign the VFO knob.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-21 09:14:23 UTC
From: Daniel TOESCA
Topic: 19717 Message: 19754

Hi,

Most intermittent problems - even display ones, with only some segments lighted - are due to corrosion in the multipin connectors between units.

Removed them one by one, soak an old toothbrush with contact cleaner, do the pin side and the female side, applying some cleaner into these, and go to the next one.

The grounding fork on the VFO capacito shaft is also a common issue, there is a small removable cover on the right-hand side of the VFO looking at it from the front panel. Open this one removing four screws and spray the fork with contact cleaner, then turn the VC through its whole course several times, and try the set again. It should be OK.

In more severe cases use a very fine grade thin emery paper between the fork and the shoulder of the VFO axis.

That's all.

73's - Daniel, ON5PY

2009/1/19, KE5GEO <KE5GEO@...>:
>
> Here are some E-Mails, I got for a similar problem, which worked for me,
> once I figured it all out.
>
> Re: [TS-520_820_530_830] Re: TS-820 DG-1 Display tube
>
> Thank you SO much for the help! It took me a while to figure out that the
> mounting plate for the inner dial was on a collar with a set screw which
> could
> be adjusted so that the 5 on the inner dial could be placed at the One
> o'clock
> position. Once I noticed the set screw, it was just a matter of trial and
> error
> to get the final minor adjustments "just right" so everything lines up
> correctly, and is synched with the digital display.
>
> Incidentally, the digital diplay "went out" again this morning, but I was
> able
> to just remove the display tubes (and their PC board mounts), clean the
> mounting
> screw holes and I then placed a star washer on the screws. I reassembled
> all of
> that and the digital display is working like it should, and now the vernier
> display is also working correctly!

> Thanks again!
> 73 de KE5GEO
>
> ----- Original Message -----
> From: w5rkl
> To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> Sent: Sunday, August 03, 2008 5:49 PM
> Subject: [TS-520_820_530_830] Re: TS-820 DG-1 Display tube
>
> Before removing the escutcheon, make a mental note of the thin red
> vertical calibration line on the escutcheon's small clear dial window.
>
> The inner dial contains the 1, 2, 3, 4, and 5, numbers that appear in
> the outer dials small window. For example if you tune the VFO to
> 7.000, the outer dial "zero zero" marker should be in line with the
> thin red calibration line on the escutcheon and nothing should be
> showing in the "zero zero" window. Tuning the VFO to 7.100, the outer
> dial's small window should now show "1".
>
> The starting point for the inner dial is to place the inner dial on
> the VFO shaft with the number "5" at the "one o'clock" position and
> tighten the dial's set screw. Then place the outer dial on the VFO
> tuning shaft with the "zero zero" dial marker in line with the thin
> red calibration line. The outer dials small window should be blank,
> nothing showing in the window.
>
> You more than likely will have to make adjustments to both dials to
> ensure this happens.
>
> I applogize for the using the numeric "1" instead of writting out the
> word which caused confusion. In addition, I also stated "00" on the
> inner dial which I actually meant the outer dial. I failed to remove
> it in my response and I appologize for that.
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> "KE5GEO" <KE5GEO@...> wrote:
> >
> > If I'm reading this right, the "key" to getting the vernial dial
> diplay to agree/work right with the digital is to orient the inner
> dial so that the 5 on the wheel is at the 10 o'clock position. What
> position should the other number/frequency dials be set to? 00, 100,
> 200, 300 or what? When I got my 820S the inner dial did not agree
> with the frequency readout, so I removed the inner dial. Later the
> digital frquency dispaly went out, (no digits/wrong digits etc.) but I
> was able to cure that problem by removing the digital display, and
> cleaning the 4 screws/holes which held it in place, then reinstalling

> it. The digital works fine now, but I would like to get the vernier
> dial working properly again.
> > ----- Original Message -----
> > From: w5rkl
> > To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> > Sent: Sunday, August 03, 2008 3:07 PM
> > Subject: [TS-520_820_530_830] Re: TS-820 DG-1 Display tube
> >
> >
> > "Snipped"
> >
> > The key to proper dial alignment on the 820 is the position of the
> > inner dial on the VFO tuning shaft and the position of the inner
> > dial's number "5" in relation to a clocks hour hand. A starting point
> > is for number 5 on the inner dial to be at 1 o'clock. This is
> > important for the proper sequencing of numbers to show up, 00, 1, 2,
> > 3, 4, and 5, in the outer dial square windows. If the inner dial
> > is not aligned properly on the VFO tuning shaft, the numbers will not
> > display correctly in the outer dial's square windows or there will be
> > no numbers showing in the outer dial's square windows at 100khz
> intervals.
> >
> > The main tuning knob and the calibration knob should not rub against
> > one another and/or against the front panel's escutcheon. The inner and
> > outer dials must also not rub against themselves or anything else such
> > as wiring etc. Tuning should be as smooth as oil on glass throughout
> > the tuning range of the 820's VFO. My 820 had similar problems as you
> > are having when I first received it. After careful dial and knob
> > alignment, I achieve tuning that is smooth as oil on glass with my
> > 820. The VFO-820 has the same dial and knob alignment procedures and
> > it too should tune as smooth as oil on glass when the dial and knob
> > alignment is done properly.
> >
> > 73
> > Mike
> > W5RKL
>
> Hope it works for you too.
> 73 de KE5GEO
>
> ----- Original Message -----
> From: Daniel TOESCA
> To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> Sent: Monday, January 19, 2009 12:50 PM
> Subject: Re: [TS-520_820_530_830] How to allign the VFO knob.
>
> Hi Mike,
>
> This problem was reported some time ago - 2 or 3 months I guess.
>

> The solution given by Dave is OK for the kHz dial in the lower window -
> it's
> the way you have to calibrate the kHz dial reading per the user's manual,
> but not for the 100 kHz dial in the upper window, and your picture show
> clearly the problem.
>
> Search the files with ' dial ' and you probably will find it.
>
> As I remember, the procedure is covered by the TS-820 service manual you
> can
> download for free at several places on the web.
>
> It's a little bit tricky but not that difficult.
>
> Good luck & 73's - Daniel, ON5PY
>
> 2009/1/18, mikefr24 <mikefr24@... <mikefr24%40yahoo.com>>:
> >
> > Hey guys,
> >
> > I have had a TS-820S for a long time and recently dusted it off and
> > fired it up. I noticed that the VFO knob does not match what the
> > digital display says. I guess its not a huge deal but I would like it
> > to be right. Before I open the radio and mess with it myself I
> > thought I would ask and see if there is a standard way to align the
> > knob.
> >
> > See the following link for a picture of my problem.
> >
> > http://www.freemansgarage.com/images/ts820s.JPG
> >
> > Thanks,
> > Mike
> >
> >
> >
>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
>
>
>

[Non-text portions of this message have been removed]

19755. Re: [TS-520_820_530_830] KENWOOD MC MICROPHONE CONNECTOR

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-21 09:47:56 UTC
From: Adam Wade
Topic: 19708 Message: 19755

On Monday, January 19, 2009 1:21 PM [Zulu -7],
John Hetherington <jd.hetherington@...> wrote:

> We have no CB, trucker or independent electronic stores anywhere
> close by so it looks like I'll have to wait for the Orlando HamCation
> next month as we have no Radio Shack stores left here either. They
> were replaced (sort of) by the Source but they don't carry them &
> can't or won't? order them. Mail order from the US is $16+ parts -
> way over the budget!!

Some of the other available options are somewhat better quality castings
for
the shell than the ones from Radio Shack, but if you are in a jam, as soon
as my local Rat Shack restocks (I bought both the ones they had to make
cables for both my Kenwood and my new Ten-Tec) I will arrange to get you
some at my actual cost for purchase plus shipping, which should be well
below online prices plus all that shipping charge.

! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
! "I write down everything I want to remember. That way, instead !
! of spending a lot of time trying to remember what it is I wrote !
! down, I spend z time looking for the paper I wrote it down on." !
! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !

19756. Re: [TS-520_820_530_830] Re: Adjusting the AF unit 9v and 3.3v TS-820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-21 14:05:55 UTC
From: Steve Goldberg
Topic: 19725 Message: 19756

Try a hobby shop. I picked up some 18V bulbs for my 530s many years ago and they seem to last for ever and provide sufficient light.

W4IMF

----- Original Message -----
From: w5rkl
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, January 20, 2009 10:15 PM
Subject: [TS-520_820_530_830] Re: Adjusting the AF unit 9v and 3.3v TS-820

Mike,

The meter has "2" lamps and the VFO has one, each bulb's voltage
rating is 12 volts.

Radio Shack use to sell small 12 volt "Wheat" lamps in pairs. I'm not
sure if they still do, you could check the parts drawers.

I replaced the lamps in my 820 with Radio Shack 12 volt Wheat lamps
about 2 years ago. The meter lamps failed about a month ago and I used
the last two bulbs I had, gotta get some spares.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@...>
wrote:
>
> I got lucky cleaning some dirty contacts. You guys told me where to
> start looking. I appreciate all the excellent advice on my problem.
>
> I do like the 820. It's huge and heavy and the tubes are fun even
> though they are way before my time.
>
> How many 12v lamps are there supposed to be in the S meter? I only
> see one in mine.
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Congratulations Mike!! Thank you for sharing your fix with all of us.
> > The 820 is a great transceiver as are all of the Kenwood hybrids.

> > Again, congratulations Mike. Have fun and enjoy.
> >
> > 73
> > Mike
> > W5RKL
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@>
> > wrote:
> > >
> > >
> > > I got it working! I took the AF unit and the RELAY unit out. I
> > > cleaned the ground area where the screws tighten really good and
when
> > > I put them back in I was able to read all the correct voltages.
They
> > > were off a bit so I adjusted them to 9v and 3.3v. Also the 30V
on pin
> > > 6 was a misread on my part. It was 30uV. I did not notice the Volt
> > > scale changed on me. The S meter is alive again too.
> > >
> > > My radio is kicking once again and I thank everyone who helped
me out.
> > >
> > > This is my only HF Radio so its gotta stay alive. I should just go
> > > buy a new one but since this one keeps on working I always talk
myself
> > > out of it.
> > >
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > > >
> > > >
> > > >
> > > > I'm sorry, I mistyped RL-1 pin 14 as the 5VDC. Pin 14 is
ground. Pin
> > > > 13 is the 5VDC.
> > > >
> > > > The following are the RELAY UNIT's RL-1 plug identification
> labels and
> > > > normal voltages.
> > > >
> > > > If the AF AVR UNIT's AF1 pins 1 and 2 indicate less than 9VDC
> then the
> > > > RELAY UNIT's RL-1 pins 1, 2, and 3 will show the same as AF AVR
> UNIT's
> > > > AF1 pins 1 and 2.
> > > >

> > > > RL-1 pin 4 is the AGC/ALC (AGL) line switched by relay connection
> > > > RL-14 on the RELAY UNIT between receive and transmit. Voltage
varies
> > > > depending on incoming signal strength in receive and ALC voltage
> > > > produced in transmit.
> > > >
> > > > RL-1 pin 5 is from the RECTIFIER UNIT's "14" pin. It should be
> > > > approximately 14VDC.
> > > >
> > > > RL-1 pin 6 is ground. This pin is also connected to RL-1 pin 14.
> There
> > > > should be zero voltage on this pin. I see you indicate "30V"
on this
> > > > pin in your 820. Are you sure?
> > > >
> > > > RL-1 pins 7 thru 12 are 14VDC. This is the source 14VDC to the
> AF AVR
> > > > Unit AF1 pin 3 as well as a few other boards. A lower voltage here
> > > > will cause the 9VDC to be less as well as the 14VDC to the other
> > boards.
> > > >
> > > > RL-1 pin 13 is 5VDC. This voltage powers the PLL ASSEMBLY UNIT 5
> volt
> > > > logic circuits.
> > > >
> > > > RL-1 pin 14 is ground, also connected to RL-1 pin 6.
> > > >
> > > >
> > > >
> > > > 73
> > > > Mike
> > > > W5RKL
> > > >
> > > >
> > > >
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@>
> > > > wrote:
> > > > >
> > > > > Thanks for the response. I found the Relay unit and cleaned the
> > plugs
> > > > > with deoxit. No luck with that. Next I tested the voltage
on the
> > > > > pins. Pin 14 seems to be a ground however pin 13 reads 4.76v.
> > > > > Here is what I measured on all the pins on RL-1
> > > >
> > > > RL-1 plug pin 5 is the source 14VAC from the power transformer's
> 14VAC
> > > > secondary windings.

> > > >
> > > >
> > > > >
> > > > > 14) 0v Ground?
> > > > > 13) 4.76v
> > > > > 12)12.8v
> > > > > 11)12.8v
> > > > > 10)12.7v
> > > > > 9)12.7v
> > > > > 8)12.8v
> > > > > 7)12.8v
> > > > > 6)30v
> > > > > 5)13.58v
> > > > > 4)2.25v
> > > > > 3)5.8v
> > > > >
> > > > > I do not have any 2200uf caps laying around. I will have to
order
> > > > some.
> > > > >
> > > > > Mike
> > > > >
> > > > >
> > > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@>
wrote:
> > > > > >
> > > > > > Hello Mike,
> > > > > >
> > > > > > Unfortunately, there is no way to adjust the 14 volts. The
> 14 volt
> > > > > > supply is the basis for the 3.3VDC, 5VDC, and 9VDC. The 14
volt
> > > supply
> > > > > > also powers other circuits and the relay. Naturally if the
> 14 volt
> > > > > > supply is low due to component failure on the RELAY UNIT,
> then the
> > > > > > 3.3VDC, 5VDC, and 9VDC sources will also be affected.
> > > > > >
> > > > > > I recommend cleaning the plugs and pins on the RELAY UNIT
> > first. If
> > > > > > that does not improve the voltage then I suspect one or both
> > of the
> > > > > > 2200ufd 25VDC radial lead capacitors on the RELAY UNIT may be
> > > failing,
> > > > > > dragging down the 14 volt supply. The two capacitors in
> > question are
> > > > > > located on the RELAY UNIT board on the bottom of the 820. The
> > RELAY

> > > > > > UNIT is the only board with a plug in relay and two radial
lead
> > > filter
> > > > > > capacitors mounted on the board. The key here is to ensure the
> > > 3.3VDC
> > > > > > and 9VDC on the AF AVR units is good plus the 5VDC on the
RELAY
> > > UNIT's
> > > > > > RL-1 plug pin 14 is good. The 5VDC on RL-1 plug pin 14 and
> > 9VDC from
> > > > > > the AF AVR unit powers the PLL ASSEMBLY UNIT's logic
> circuits. The
> > > > > > 9VDC also powers the VFO and if both voltages are low the
> 820 will
> > > > > > drift quite a bit.
> > > > > >
> > > > > > 73
> > > > > > Mike
> > > > > > W5RKL
> > > > > >
> > > > > >
> > > > > >
> > > > > >
> > > > > > --- In TS-520_820_530_830@yahoogroups.com, "mikefr24"
> <mikefr24@>
> > > > > > wrote:
> > > > > >
> > > > > > > --- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@>
wrote:
> > > > > > >
> > > > > > > Mike,
> > > > > > > Do you show 14 volts on pin3 of the AF1 connector to
ground?
> > > > > > >
> > > > > > >
> > > > > > >
> > > > > > > mikefr24 wrote:
> > > > > > >
> > > > > > > I did a lot of reading on this forum and I found
> > instructions
> > > > > on how
> > > > > > > to adjust the 9v and 3.3v on the AF Unit using VR1 and
> > VR4. I
> > > > > > > adjusted VR1 until the voltage was 3.3v (it was 2.5v).
> I am
> > > > having
> > > > > > > trouble getting the 9v. I am measuring only 5.8v and no
> > > > matter how
> > > > > > > much I adjust VR4, it will not change. Maybe I am not
> > > > measuring in

> > > > > > > > > the right spot? I am measuring voltage between the
> > chassis and
> > > > > > pin1
> > > > > > > > > > on the AF1 plug.
> > > > > > > > > >
> > > > > > > > > > This all came about because my S meter is not very
> > > sensitive (it
> > > > > > only
> > > > > > > > > > twitches with a S9 signal) and also the radio has a
bit of
> > > > drift.
> > > > > > > > > >
> > > > > > > > > > Thanks,
> > > > > > > > > >
> > > > > > > > > > Mike
> > > > > > > > > >
> > > > > > > > > >
> > > > > > > > > > Messages in this topic
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>
<http://groups.yahoo.com/group/TS-520_820_530_830/message/19725;_ylc=X3oDMTM2dTQ4ZmliBF9TA
zk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzE5NzI1BHNlYwNmdHIEc2xrA3Z
0cGMEc3RpbWUDMTIzMjMzNTc3MQR0cGNJZAMxOTcyNQ-->
> > > > > > >
> > > > > > > > > > (1)
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<http://groups.yahoo.com/group/TS-520_820_530_830/post;_ylc=X3oDMTJxZjQwamlxBF9TAzk3MzU5Nz
E0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzE5NzI1BHNlYwNmdHIEc2xrA3JwbHkEc3Rp
bWUDMTIzMjMzNTc3MQ--?act=reply&messageNum=19725>
> > > > > > > >
> > > > > > > > > >
> > > > > > > > > > I am getting 12.55V on pin#3 Is there a way to adjust
that?
> > > > > > > > > >
> > > > > > > > > > Mike
> > > > > > > > > >
> > > > > > > > > >

> > > > >
> > > >
> > >
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>

Certified Virus Free
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.10/1906 - Release Date: 1/21/2009 7:07 AM

[Non-text portions of this message have been removed]

19757. I did it!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-21 23:17:41 UTC
From: Angelica
Topic: 19757 Message: 19757

I made my first contacts two nights ago on 7178. I also ragchewed on 3953 in Michigan.I was bound and determined to make an HF contact and I did.
Just thought I would share the good news.

Angie KD8HMS

19758. Re: [TS-520_820_530_830] I did it!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-21 23:24:28 UTC
From: John Becker
Topic: 19757 Message: 19758

For what it's worth Angie, I hang out on 7240 most
any evening starting about 8PM CST.

John, W0JAB
Louisiana Missouri

On 1/21/2009 5:17:41 PM, Angelica (arkch1p@...) wrote:
> I made my first contacts two nights ago on 7178. I also ragchewed on 3953
> in Michigan.I was bound and determined to make an HF contact and I did.
> Just thought I would share the good news.
>
> Angie KD8HMS

19759. Old Kenwodd Hybrids

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-21 23:45:08 UTC
From: Rich Jones
Topic: 19759 Message: 19759

Am I the only guy who buys and old Kenwood Hybred that never has any problem, they work like they are suppose to, put out full power, no glitz in the pots, the VFO is right on and all the lights work and no hum on transmit. Just curious, must be a lot of abused rigs for sale out there. Best good wishes and happy trails with your rigs. Rich K8UV

19760. Re: [TS-520_820_530_830] Old Kenwodd Hybrids

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-22 00:07:52 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 19759 Message: 19760

On Wed, 2009-01-21 at 23:45 +0000, Rich Jones wrote:
> Am I the only guy who buys and old Kenwood Hybred that never has any
> problem, they work like they are suppose to, put out full power, no
> glitz in the pots, the VFO is right on and all the lights work and no
> hum on transmit. Just curious, must be a lot of abused rigs for sale
> out there. Best good wishes and happy trails with your rigs. Rich K8UV

Mine was okay after I stuck new valves in, and replaced the crumbling
cathode resistors. The VFO scale is a little off, but I can live with
that - more than I can live with dismantling the front panel, anyway.

Everyone compliments the lovely audio from it, so I suppose it must not
have a hum on transmit.

Gordon

19761. Re: [TS-520_820_530_830] Old Kenwodd Hybrids

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-22 00:14:56 UTC
From: martin
Topic: 19759 Message: 19761

Hi Rich. Well, you seldom see the guys who get a good one post here...and considering the age of these radios, its not surprising that some have problems. I traded a computer for mine...total cost to me was $45.00 for my TS-530S, and MC-50 Mic. Mine had been used, but not abused. Its got some normal wear marks and a scratch or two. It needed a driver tube, and the switches cleaned. I also have replaced one of the plastic gears on the Drive control shaft, and the band-switch coupler in the final compartment. Even well maintained radios this old may need a little TLC. I also did the alignment as instructed in the manual. It has now worked like a champ for over a year with no issues at all, and I expect it to work for many more years without major problems.

I am sure that there are a lot of guys who got one of these radios with no problems. But the giuys who need a little help with something are the ones who post the most...the squeaky wheel you know...

Glad you got a good one!

TTYL

Rich Jones wrote:
> Am I the only guy who buys and old Kenwood Hybred that never has any
> problem, they work like they are suppose to, put out full power, no
> glitz in the pots, the VFO is right on and all the lights work and no
> hum on transmit. Just curious, must be a lot of abused rigs for sale
> out there. Best good wishes and happy trails with your rigs. Rich K8UV
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to: www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at
http://www.defectivebydesign.org/what_is_drm"

19762. DK-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-22 00:52:54 UTC
From: Gordon
Topic: 19762 Message: 19762

I have a friend that is looking for a DK-520 Adapter.
Anyone have one for sale?

Gordon
N6WK

19763. RE: [TS-520_820_530_830] Old Kenwodd Hybrids

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-22 01:42:27 UTC
From: Louis A Bellock
Topic: 19759 Message: 19763

Rich, you are not the only one out there. Over the course of 23 years as a ham I have had several Trio and Kenwood rigs. I must say that not one has ever had an issue, except the one R-599D I bought. These are the Kenwoods I own and use now on a daily basis:

TS-520, TS-820, JR-310/TX-310, TS-120, R-599D/T-599D

I have owned several TS-520/820 series rigs and none of them ever had an issue. I am a casual user 95% CW/5% Phone and don't contest. As you said, they reliably work as they should, have full+ power output and sensitive/selective as the devil.

When I purchased the R-599D, it had medium sensitivity and an almost non-reading S-Meter. 6 Transistors and 2 Diodes later on the IF board, rectified both problems.

I have been a member of this reflector for many years and do catalog some of the excellent repair suggestions, just in case one day something does fail.

One last thing; the beauty of these rigs, for me is that, due to their lack of maintenance; I can spend more time homebrewing at my bench.

73, Lou N2JPR

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Rich Jones
Sent: Wednesday, January 21, 2009 6:45 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Old Kenwodd Hybrids

Am I the only guy who buys and old Kenwood Hybred that never has any problem, they work like they are suppose to, put out full power, no glitz in the pots, the VFO is right on and all the lights work and no hum on transmit. Just curious, must be a lot of abused rigs for sale out there. Best good wishes and happy trails with your rigs. Rich K8UV

E-mail message checked by Spyware Doctor (6.0.0.386)
Database version: 5.11580
http://www.pctools.com/spyware-doctor-antivirus/
<http://www.pctools.com/en/spyware-doctor-antivirus/>

E-mail message checked by Spyware Doctor (6.0.0.386)
Database version: 5.11590
http://www.pctools.com/en/spyware-doctor-antivirus/

[Non-text portions of this message have been removed]

19764. Re: [TS-520_820_530_830] Old Kenwodd Hybrids

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-22 01:54:03 UTC
From: David Owens
Topic: 19759 Message: 19764

Hello Gordon,
Just wanted to reply about the ""Old Kenwood hybrids". I agree with you. I have to Ts-530s. Although I did a little work on them, they seem to work pretty darn well. They also drive my Heath Sb-200 a little better than my solid state 430s and the %$^&& 757. So enjoy and I will too. 73's Dave Kc5ee.

--- On Wed, 1/21/09, Gordon JC Pearce MM3YEQ <gordon@...t> wrote:

From: Gordon JC Pearce MM3YEQ <gordon@...>
Subject: Re: [TS-520_820_530_830] Old Kenwodd Hybrids
To: TS-520_820_530_830@...m
Date: Wednesday, January 21, 2009, 6:07 PM

On Wed, 2009-01-21 at 23:45 +0000, Rich Jones wrote:
> Am I the only guy who buys and old Kenwood Hybred that never has any
> problem, they work like they are suppose to, put out full power, no
> glitz in the pots, the VFO is right on and all the lights work and no
> hum on transmit. Just curious, must be a lot of abused rigs for sale
> out there. Best good wishes and happy trails with your rigs. Rich K8UV

Mine was okay after I stuck new valves in, and replaced the crumbling
cathode resistors. The VFO scale is a little off, but I can live with
that - more than I can live with dismantling the front panel, anyway.

Everyone compliments the lovely audio from it, so I suppose it must not
have a hum on transmit.

Gordon

[Non-text portions of this message have been removed]

19765. Re: [TS-520_820_530_830] Old Kenwodd Hybrids

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-22 02:05:29 UTC
From: ralph gee
Topic: 19759 Message: 19765

Hiya Gordon,

I agree. These are great old radios. I've owned my TS-520SE since new. I got this radio for a Christmas gift for passing my license back in 1979. the tubes are original and I still get full power plus alittle. I run the rig with the same mic, too (D-104 "Silver Eagle").
After all these years, the radio is still in line, although, I mostly use it on 40 & 80 meters for my usual rag chew sessions..HI
I run a FT-2000D for DX-ing. The radios flank either side of my station desk.
The TS-520SE will always hold a full time spot and dedicated antenna in my shack for years to come!
Best 73,
Ralph
K3FXR

From: David Owens <knocker308@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, January 21, 2009 8:54:03 PM
Subject: Re: [TS-520_820_530_830] Old Kenwodd Hybrids

Hello Gordon,
Just wanted to reply about the ""Old Kenwood hybrids". I agree with you. I have to Ts-530s. Although I did a little work on them, they seem to work pretty darn well. They also drive my Heath Sb-200 a little better than my solid state 430s and the %$^&& 757. So enjoy and I will too. 73's Dave Kc5ee.

--- On Wed, 1/21/09, Gordon JC Pearce MM3YEQ <gordon@gjcp. net> wrote:

From: Gordon JC Pearce MM3YEQ <gordon@gjcp. net>
Subject: Re: [TS-520_820_ 530_830] Old Kenwodd Hybrids
To: TS-520_820_530_ 830@yahoogroups. com
Date: Wednesday, January 21, 2009, 6:07 PM

On Wed, 2009-01-21 at 23:45 +0000, Rich Jones wrote:
> Am I the only guy who buys and old Kenwood Hybred that never has any
> problem, they work like they are suppose to, put out full power, no
> glitz in the pots, the VFO is right on and all the lights work and no
> hum on transmit. Just curious, must be a lot of abused rigs for sale
> out there. Best good wishes and happy trails with your rigs. Rich K8UV

Mine was okay after I stuck new valves in, and replaced the crumbling
cathode resistors. The VFO scale is a little off, but I can live with
that - more than I can live with dismantling the front panel, anyway.

Everyone compliments the lovely audio from it, so I suppose it must not
have a hum on transmit.

Gordon

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

19766. TS-520 Efficiency Vs. Tube Life

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-22 02:02:31 UTC
From: Richard Glassner
Topic: 19766 Message: 19766

I have just purchased a TS-520 from an estate sale and performed the transmitter tuning according to the Kenwood manual. All seems ok with several great QSOs made over the last few days. I have several questions that that are probably answered by a single response.

For "Novice Operation" the manual reads:

"...adjust the carrier level control to keep the plate input power below 75 watts (approximately 90 ma). Adjusting the carrier level yields much less power output because it reduces the efficiency of the tubes."

I operate CW only at 50 watts, 5 watts, or less than 1 watt with the various rigs that I have used. The TS-520 is currently set for 50 watts out as read on the external wattmeter.

Does reduced efficiency decrease the life of the tube? In other words, is operating at low power a problem for the tubes or should it actually increase the life of the tubes? Please explain any mechanisms of tube degradation, low power vs. higher power.

Thanks for the response,
Rich-- NØEAX
Jefferson City, Mo.

19767. Birdie, image, some damn thing...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-22 05:46:04 UTC
From: al_kozakiewicz
Topic: 19767 Message: 19767

TS-820S.

On 20m and 15m (I haven't checked 10m - why bother at this point in the solar cycle), I hear some kind of signal every 61 kHz. It kinda sounds like a buzzsaw in a sea shell.

I know I haven't given a whole lot of useful information, but I was wondering if anyone else experienced this with a Kenwood. Is it likely something with the receiver, or should I go looking for outside sources (computers, network equipment, wireless router, ???)? Is there something magic about 61 kHz that escapes me?

Al
AB2ZY

19768. Re: [TS-520_820_530_830] Birdie, image, some damn thing...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-22 06:41:50 UTC
From: martin
Topic: 19767 Message: 19768

Its probably not the radio. Do you hear the noise with the antenna disconnected? I would start looking for switching wal-wart power supplies. Some of them can be very noisy RF-wise. Serial computer modr\ems can also make quite a bit of moise as can routers and their switching power supplies. Lots of home electronics are never completely off...if the were, you could not turn on with a remote.

Good Luck!

al_kozakiewicz wrote:
> TS-820S.
>
> On 20m and 15m (I haven't checked 10m - why bother at this point in the
> solar cycle), I hear some kind of signal every 61 kHz. It kinda sounds
> like a buzzsaw in a sea shell.
>
> I know I haven't given a whole lot of useful information, but I was
> wondering if anyone else experienced this with a Kenwood. Is it likely
> something with the receiver, or should I go looking for outside sources
> (computers, network equipment, wireless router, ???)? Is there
> something magic about 61 kHz that escapes me?
>
> Al
> AB2ZY
>
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to: www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at
http://www.defectivebydesign.org/what_is_drm"

19769. Re: [TS-520_820_530_830] Birdie, image, some damn thing...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-22 09:13:19 UTC
From: ralph gee
Topic: 19767 Message: 19769

Hello,

I would point towards something other than the radio.... Have any touch lamps in the house?? Plasma TV? Any timers on the living room light? If you have any flouresent lights in the house, turn them all off and try it (possibly a bad ballast).
Any of these things can create havoc! My wife had this little darn touch lamp in her office and it drove me crazy!

Hope this helps!
Best 73,
Ralph
K3FXR

From: al_kozakiewicz <akozak@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, January 22, 2009 12:46:04 AM
Subject: [TS-520_820_530_830] Birdie, image, some damn thing...

TS-820S.

On 20m and 15m (I haven't checked 10m - why bother at this point in the solar cycle), I hear some kind of signal every 61 kHz. It kinda sounds like a buzzsaw in a sea shell.

I know I haven't given a whole lot of useful information, but I was wondering if anyone else experienced this with a Kenwood. Is it likely something with the receiver, or should I go looking for outside sources (computers, network equipment, wireless router, ???)? Is there something magic about 61 kHz that escapes me?

Al
AB2ZY

[Non-text portions of this message have been removed]

19770. RE: [TS-520_820_530_830] Old Kenwodd Hybrids

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-22 11:54:11 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 19759 Message: 19770

On Wed, 2009-01-21 at 20:42 -0500, Louis A Bellock wrote:
> Rich, you are not the only one out there. Over the course of 23 years as a
> ham I have had several Trio and Kenwood rigs. I must say that not one has
> ever had an issue, except the one R-599D I bought. These are the Kenwoods I
> own and use now on a daily basis:
>
>
>
> TS-520, TS-820, JR-310/TX-310, TS-120, R-599D/T-599D

Oooh. Always wanted to get a TX-310 to go with my dad's old JR-310.
That was lying around for a long time in storage after he went silent
key, and when I tested it turned out not to be working. I gave it to a
guy who repaired radios for the MoD, who returned it working even less,
and it sat in the loft for another few years. A couple of months ago I
pulled it out of storage again, determined that the VFO wasn't getting
the job done (measured at the trimmer cap, there was plenty of O, which
was about the right F and even V'ed when you turned the dial, but
nothing on the output). Despite the stern warnings to only use the
correct special Trio RF transistors in the VFO, I put a BC548 in to
replace the very dead output tranny, and after a quick realignment it
works brilliantly.

My dad used his with a Panda PR-120V transmitter, which I would love to
be able to track down again. I *think* I know who has it...

Gordon

19771. Re: [TS-520_820_530_830] TS-520 Efficiency Vs. Tube Life

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-22 12:12:48 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 19766 Message: 19771

On Thu, 2009-01-22 at 02:02 +0000, Richard Glassner wrote:

> I operate CW only at 50 watts, 5 watts, or less than 1 watt with the
> various rigs that I have used. The TS-520 is currently set for 50
> watts out as read on the external wattmeter.

You can do the ALC trick with a PP3 battery and a pot - apply a small negative bias to the ALC and you can finely control the power output down to milliwatts!

> Does reduced efficiency decrease the life of the tube? In other
> words, is operating at low power a problem for the tubes or should it
> actually increase the life of the tubes? Please explain any
> mechanisms of tube degradation, low power vs. higher power.

Running at low power should actually extend the life of the valves, possibly by quite a bit. From what I've read - the 6146 line of valves is nearly twice as old as me, so I can't claim any great authority next to some of the old-timers in here - they were built as transmitter PA valves, but are apparently similar to television line output valves (sweep tubes). Now, in a TV, the valves were run quite gently so they would have a long lifespan. Looking at an old copy of the RSGB handbook I see a design for a grounded-grid linear using a pair of PL36s, to give an output of around 60W. The book figure for continuous operation (like, oh, in a TV line output stage for instance) is around 10W, but in the relatively light duty cycle of an amateur radio transmitter you can push them a bit harder. The article says that you can get 100W from your two PL36s if you up the heater voltage and anode voltage, "at the expense of drastically shortened valve life" - no kidding! They would be cherry red!

What mostly happens as valves age is that the coating on the cathode deteriorates, and can no longer fire off as many electrons. Other things happen, like gas slowly leaking in and turning the valve into an inefficient discharge lamp (I changed a pair of EL34s in my guitar amp that glowed blue when you applied HT - pretty, but they sounded rubbish). As the cathode coating loses emission, the amount of current that the valve can pass falls - effectively its series resistance increases - until eventually it basically just has no gain at all.

What affects this process? Well, the temperature that the cathode runs at and the current through the valve are the main two. Not letting the cathode heat up fully doesn't help either - according to the 6146A data sheets it takes around 5-6 minutes to warm up fully, so give it time before you start pounding that key. Finish up your coffee first. The VFO will have warmed up and stopped drifting by then anyway, and you

wouldn't want a drifty signal, would you?

Gordon

19772. Re: TS-520 Efficiency Vs. Tube Life

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-22 13:07:11 UTC
From: w5rkl
Topic: 19766 Message: 19772

Hello Richard,

The answer to your question,

"...is operating at low power a problem for the tubes..."

the answer is "No".

First, ALWAYS tune your transmitter, whether it is a Kenwood hybrid or another make/model, into a DUMMY LOAD.

Tune up the 520 for full output power as described in the manual. During the tuning process, forget about the Novice Operation, simply follow the standard tuning up procedure as outlined in the 520's manual.

Once the 520 is properly tuned for maximum output, reduce the RF output by adjusting the CAR control to the output level you desire.

It is also important to understand that the CAR control has absolutely no control over the 520's output in sideband mode! RF output in sideband mode is controlled entirely by the MIC gain control and any ALC voltage produced in the final amplifier. Therefore, in sideband, adjusting the CAR control is useless, does nothing, and will not affect the 520's RF output! The CAR control ONLY functions and controls RF output in TUNE and CW modes!

Over driving, pushing the 520 for those last few extra watts output, "will" reduce the life span of not only the final tubes but the driver tube as well! Do not get caught up in the "AKTTR" (All Knobs To The Right) syndrome. If you do not always see ALC on the meter, do not become alarmed. There's nothing wrong with your 520. ALC is ONLY produced when grid current flows in the final tube. Grid current flows in the final tubes ONLY when the grids are driven POSITIVE by the RF driving signal. ALC is not always a bad thing. Normal peak ALC meter readings should be kept as much as possible to mid scale on the ALC meter scale by adjusting the MIC gain. The lower the ALC meter reading the "cleaner" your output signal will be. Grid current flowing in the 520's final amplifier produces distortion in the final amplifier's output signal.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Richard Glassner" <rglassner@...> wrote:
>

> I have just purchased a TS-520 from an estate sale and performed the
> transmitter tuning according to the Kenwood manual. All seems ok
> with several great QSOs made over the last few days. I have several
> questions that that are probably answered by a single response.
>
> For "Novice Operation" the manual reads:
>
> "...adjust the carrier level control to keep the plate input power
> below 75 watts (approximately 90 ma). Adjusting the carrier level
> yields much less power output because it reduces the efficiency of
> the tubes."
>
> I operate CW only at 50 watts, 5 watts, or less than 1 watt with the
> various rigs that I have used. The TS-520 is currently set for 50
> watts out as read on the external wattmeter.
>
> Does reduced efficiency decrease the life of the tube? In other
> words, is operating at low power a problem for the tubes or should it
> actually increase the life of the tubes? Please explain any
> mechanisms of tube degradation, low power vs. higher power.
>
> Thanks for the response,
> Rich-- NØEAX
> Jefferson City, Mo.
>

19773. Re: TS-520 Efficiency Vs. Tube Life

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-22 13:15:29 UTC
From: w5rkl
Topic: 19766 Message: 19773

I forgot to mention one additional thing that should never be done.

Never detune (tuned out of resonance) the driver and/or final amplifier stage(s) to reduce the final amplifier's output! This will have a negative affect on the life span of the tubes as well as the circuits themselves!

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello Richard,
>
> The answer to your question,
>
> "...is operating at low power a problem for the tubes..."
>
> the answer is "No".
>
> First, ALWAYS tune your transmitter, whether it is a Kenwood hybrid or
> another make/model, into a DUMMY LOAD.
>
> Tune up the 520 for full output power as described in the manual.
> During the tuning process, forget about the Novice Operation, simply
> follow the standard tuning up procedure as outlined in the 520's manual.
>
> Once the 520 is properly tuned for maximum output, reduce the RF
> output by adjusting the CAR control to the output level you desire.
>
> It is also important to understand that the CAR control has absolutely
> no control over the 520's output in sideband mode! RF output in
> sideband mode is controlled entirely by the MIC gain control and any
> ALC voltage produced in the final amplifier. Therefore, in sideband,
> adjusting the CAR control is useless, does nothing, and will not
> affect the 520's RF output! The CAR control ONLY functions and
> controls RF output in TUNE and CW modes!
>
> Over driving, pushing the 520 for those last few extra watts output,
> "will" reduce the life span of not only the final tubes but the driver
> tube as well! Do not get caught up in the "AKTTR" (All Knobs To The
> Right) syndrome. If you do not always see ALC on the meter, do not
> become alarmed. There's nothing wrong with your 520. ALC is ONLY
> produced when grid current flows in the final tube. Grid current flows
> in the final tubes ONLY when the grids are driven POSITIVE by the RF

> driving signal. ALC is not always a bad thing. Normal peak ALC meter
> readings should be kept as much as possible to mid scale on the ALC
> meter scale by adjusting the MIC gain. The lower the ALC meter reading
> the "cleaner" your output signal will be. Grid current flowing in the
> 520's final amplifier produces distortion in the final amplifier's
> output signal.
>
>
> 73
> Mike
> W5RKL
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Richard Glassner"
> <rglassner@> wrote:
> >
> > I have just purchased a TS-520 from an estate sale and performed the
> > transmitter tuning according to the Kenwood manual. All seems ok
> > with several great QSOs made over the last few days. I have several
> > questions that that are probably answered by a single response.
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> > For "Novice Operation" the manual reads:
> >
> > "...adjust the carrier level control to keep the plate input power
> > below 75 watts (approximately 90 ma). Adjusting the carrier level
> > yields much less power output because it reduces the efficiency of
> > the tubes."
> >
> > I operate CW only at 50 watts, 5 watts, or less than 1 watt with the
> > various rigs that I have used. The TS-520 is currently set for 50
> > watts out as read on the external wattmeter.
> >
> > Does reduced efficiency decrease the life of the tube? In other
> > words, is operating at low power a problem for the tubes or should it
> > actually increase the life of the tubes? Please explain any
> > mechanisms of tube degradation, low power vs. higher power.
> >
> > Thanks for the response,
> > Rich-- NØEAX
> > Jefferson City, Mo.
> >
>

19774. Re: [TS-520_820_530_830] Birdie, image, some damn thing...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-22 13:22:15 UTC
From: cparrish104@cfl.rr.com
Topic: 19767 Message: 19774

Hi Al,

Your interference could be an ECM (Electronically Commutated Motor) somewhere in your vicinity. There's one in my A/C system which generates inteference every 18kHz, and sounds like a buzz saw. I've been writing the manufacturer for several months trying to get them to do something about it.

73, Curt, K4TL

---- al_kozakiewicz <akozak@...> wrote:
> TS-820S.
>
> On 20m and 15m (I haven't checked 10m - why bother at this point in the
> solar cycle), I hear some kind of signal every 61 kHz. It kinda sounds
> like a buzzsaw in a sea shell.
>
> I know I haven't given a whole lot of useful information, but I was
> wondering if anyone else experienced this with a Kenwood. Is it likely
> something with the receiver, or should I go looking for outside sources
> (computers, network equipment, wireless router, ???)? Is there
> something magic about 61 kHz that escapes me?
>
> Al
> AB2ZY
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

19775. Re: I did it!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-22 15:03:51 UTC
From: Randy
Topic: 19757 Message: 19775

Angie KD8HMS

Since you're from Michigan, you might be interested in the Michigan Upper Peninsula Net. It's on 3921kHz every evening at 1700 ET, and also on Sunday at 1200 ET. Although it's officially a traffic net, most of the check-ins are just passing the time of day. You don't have to be from the U.P. to check in. In fact, most of the net members are from downstate. Some as far away as Detroit, Ann Arbor, etc. We even have check-ins from Wisconsin, Minnesota, Illinois and Ohio to mention a few. Listen in and if you like what you hear, please check in. Band conditions can affect local nets like this quite a bit, so if you don't hear us one night, by all means, try again another evening.

If you'd prefer to QSO outside a net, just reply to this message and let me know when you might be on the air on 75m. I'm a fairly new ham myself, so I know how exciting those first HF contacts can be. The only contact more exciting to me was my first CW contact. I was so nervous, I could hardly press the key. Great fun though.

Enjoy and as always - 73,

de Randy - K8HRO

19776. Re: Old Kenwodd Hybrids

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-22 15:24:20 UTC
From: james27613
Topic: 19759 Message: 19776

hi,

I got my used 520 estate radio along with the vfo, speaker and a Henry DFD/K nixie tube display (real retro) as a package from an ebay seller who was helping her friend get some cash. The radio was very clean, almost new looking inside and outside. I used Deoxit before I powered the radio up and it has original tubes. Works great.

Need a backup radio right? Found a 530 from a high volume ebay seller, says 20m not working, snapped it up since it was in SC and I am in NC $ 12 ups next day !

All it needed was a good cleaning on the bandswitch and 20 back, also did the WARC cut wire and wow, great radio.

I've learned more with these two radios along with following this forum then I ever would have with a modern radio.

I often wonder how many contacts the previous owners made and to what parts of the world.

73 james ke4drn

19777. Re: I did it!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-22 15:34:08 UTC
From: hobopelican
Topic: 19757 Message: 19777

Congrats! I'm pretty new myself and remember how excited I was when I made my first contact. Enjoy!

KD8GNC
(Tery)

--- In TS-520_820_530_830@yahoogroups.com, Angelica <arkch1p@...> wrote:
>
> I made my first contacts two nights ago on 7178. I also ragchewed on 3953 in Michigan.I was bound and determined to make an HF contact and I did.
> Just thought I would share the good news.
>
> Angie KD8HMS
>

19778. Re: TS-520 Efficiency Vs. Tube Life

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-22 16:50:26 UTC
From: al_kozakiewicz
Topic: 19766 Message: 19778

I agree with this. I established my modulation level experimentally by getting feedback from other hams during ragchew QSOs. Once set, you don't really need to change it. For my microphone, voice volume and mouth position, I found that I should set the control at 3 o'clock. I leave it there and never run any compression.

When I run RTTY (I use AFSK direct from the soundcard in my PC), I may need to fiddle with the control, but I simply return it to 3 o'clock when I go back to SSB. I never change it otherwise and never look at the ALC reading on the meter.

Al
AB2ZY

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello Richard,
>
> The answer to your question,
>
> "...is operating at low power a problem for the tubes..."
>
> the answer is "No".
>
> First, ALWAYS tune your transmitter, whether it is a Kenwood hybrid or
> another make/model, into a DUMMY LOAD.
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> Tune up the 520 for full output power as described in the manual.
> During the tuning process, forget about the Novice Operation, simply
> follow the standard tuning up procedure as outlined in the 520's manual.
>
> Once the 520 is properly tuned for maximum output, reduce the RF
> output by adjusting the CAR control to the output level you desire.
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> It is also important to understand that the CAR control has absolutely
> no control over the 520's output in sideband mode! RF output in
> sideband mode is controlled entirely by the MIC gain control and any
> ALC voltage produced in the final amplifier. Therefore, in sideband,
> adjusting the CAR control is useless, does nothing, and will not
> affect the 520's RF output! The CAR control ONLY functions and
> controls RF output in TUNE and CW modes!
>
> Over driving, pushing the 520 for those last few extra watts output,

> "will" reduce the life span of not only the final tubes but the
driver
> tube as well! Do not get caught up in the "AKTTR" (All Knobs To The
> Right) syndrome. If you do not always see ALC on the meter, do not
> become alarmed. There's nothing wrong with your 520. ALC is ONLY
> produced when grid current flows in the final tube. Grid current
flows
> in the final tubes ONLY when the grids are driven POSITIVE by the RF
> driving signal. ALC is not always a bad thing. Normal peak ALC meter
> readings should be kept as much as possible to mid scale on the ALC
> meter scale by adjusting the MIC gain. The lower the ALC meter
reading
> the "cleaner" your output signal will be. Grid current flowing in
the
> 520's final amplifier produces distortion in the final amplifier's
> output signal.
>
>
> 73
> Mike
> W5RKL
>
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Richard Glassner"
> <rglassner@> wrote:
> >
> > I have just purchased a TS-520 from an estate sale and performed
the
> > transmitter tuning according to the Kenwood manual. All seems ok
> > with several great QSOs made over the last few days. I have
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> > questions that that are probably answered by a single response.
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> > yields much less power output because it reduces the efficiency
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> > the tubes."
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> > various rigs that I have used. The TS-520 is currently set for
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should it
> > actually increase the life of the tubes? Please explain any
> > mechanisms of tube degradation, low power vs. higher power.
> >
> > Thanks for the response,
> > Rich-- NØEAX
> > Jefferson City, Mo.
> >
>

19779. Re: [TS-520_820_530_830] I did it!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-22 18:09:57 UTC
From: martin
Topic: 19757 Message: 19779

Hi Angie. Great to hear that! You may run into a few groups on 80M
that are not friendly to new hams. Just turn the VFO knob and forget
them if you find any! There are a lot of good folks out there. If you
can hear the Iowa net on 3970 Khz (5:30 PM CST) don't hesitate to check
in. You may even hear me there.

IF you would like, we can try to schedule a contact. Let me know.

You might try listening to 14.300 in the daytime. This is the Maritime
Mobile Service net. Anyone can check in, and get a signal and/or audio
report.

You might also check out www.eqsl.cc eqsl is a way to senf electronic
QSL cards. It is much more economical than sending real cards through
the post office. eqsl cards are not good for ARRL awards though.

Glad to know that you are on the air, and hope to talk to you sometime.

TTYL

Angelica wrote:
> I made my first contacts two nights ago on 7178. I also ragchewed on 3953 in Michigan.I
was bound and determined to make an HF contact and I did.
> Just thought I would share the good news.
>
> Angie KD8HMS
>
>
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to: www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at
http://www.defectivebydesign.org/what_is_drm"

19780. Re: [TS-520_820_530_830] Re: Old Kenwodd Hybrids

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-22 20:29:48 UTC
From: ve3wej gmail
Topic: 19759 Message: 19780

As long as you bid low expecting the worse, ebay is not so bad.BUT.....

VE3WEJ
Dave Garber

10-X # 23465
echolink # 52852
irlp node 2202
email ve3wej@...
----- Original Message -----
From: james27613
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, January 22, 2009 10:24 AM
Subject: [TS-520_820_530_830] Re: Old Kenwodd Hybrids

hi,

I got my used 520 estate radio along with the vfo, speaker and a Henry
DFD/K nixie tube display (real retro) as a package from an ebay seller
who was helping her friend get some cash. The radio was very clean,
almost new looking inside and outside. I used Deoxit before I
powered the radio up and it has original tubes. Works great.

Need a backup radio right? Found a 530 from a high volume
ebay seller, says 20m not working, snapped it up since it
was in SC and I am in NC $ 12 ups next day !

All it needed was a good cleaning on the bandswitch and 20 back,
also did the WARC cut wire and wow, great radio.

I've learned more with these two radios along with following
this forum then I ever would have with a modern radio.

I often wonder how many contacts the previous owners made
and to what parts of the world.

73 james ke4drn

[Non-text portions of this message have been removed]

19781. TS 820 AF-AVR Board (In Sheeps Clothing)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-23 01:23:54 UTC
From: Bill Marvin
Topic: 19781 Message: 19781

I've had my TS820 for about 5 yrs. Went to adjust the AVR Brd 9V and 3.3V.....the VR4 trimmer (500 ohm) has a broken leg and I'm not sure about VR1 50K ohm.

Radio Shack does not carry these vertical small trimpots. Would any one have any replacements new or used pots?

Thanks

Bill KB9IV

19782. Finally gone digital

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-23 04:31:47 UTC
From: carboncarolina78
Topic: 19782 Message: 19782

Am a very real novice at this point. I see I should not operate at full power, but only about 25 percent. Can someone explain the "proper" way to turn down power on the 830 and perhaps also on a TS-120. I have an idea, but would like verification with some step by step instructions in setting the rig up. Better safe than sorry.

Thanks,
Steve
W3DB

19783. Re: [TS-520_820_530_830] Finally gone digital

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-23 05:10:57 UTC
From: Phil Barnett
Topic: 19782 Message: 19783

carboncarolina78 wrote:
> Am a very real novice at this point. I see I should not operate at
> full power, but only about 25 percent. Can someone explain the
> "proper" way to turn down power on the 830 and perhaps also on a
> TS-120. I have an idea, but would like verification with some step by
> step instructions in setting the rig up. Better safe than sorry.
>
>
Don't turn the radio power down. That will increase ALC, which is a bad thing for digital modes and introduces distortion.

Leave the radio capable of full power, then turn down the signal coming from the computer. If you need a more fine grained control, put a pot across the signal coming from the computer and run one side and the wiper to the transmitter input.

You should have NO ALC when it's set up right.

19784. Re: Finally gone digital

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-23 06:22:11 UTC
From: al_kozakiewicz
Topic: 19782 Message: 19784

I decided to try RTTY for the first time on the morning of the ARRL RTTY Roundup. I already had the software (MTTY) and cables going to the phone patch interface of my rig (TS-820S) and had done some receiving, but had never tried transmitting, never mind a digital QSO.

At any rate, this <http://www.aa5au.com/rtty.html> page helped enormously, especially the section entitled Transmitting AFSK with MTTY. Adjust the ALC until you get the meter to move, and then back it off until the ALC reads zero.

I made about 150 QSO's during the contest, only operating about 3.5 hours. It was a fun way to learn.

Al

AB2ZY

--- In TS-520_820_530_830@yahoogroups.com <mailto:TS-520_820_530_830@yahoogroups.com> , Phil Barnett <philb@...> wrote:
>
> carboncarolina78 wrote:
> > Am a very real novice at this point. I see I should not operate at
> > full power, but only about 25 percent. Can someone explain the
> > "proper" way to turn down power on the 830 and perhaps also on a
> > TS-120. I have an idea, but would like verification with some step by
> > step instructions in setting the rig up. Better safe than sorry.
> >
> >
> Don't turn the radio power down. That will increase ALC, which is a bad
> thing for digital modes and introduces distortion.
>
> Leave the radio capable of full power, then turn down the signal coming
> from the computer. If you need a more fine grained control, put a pot
> across the signal coming from the computer and run one side and the
> wiper to the transmitter input.
>
> You should have NO ALC when it's set up right.
>

[Non-text portions of this message have been removed]

19785. Re: Finally gone digital

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-23 06:29:41 UTC
From: al_kozakiewicz
Topic: 19782 Message: 19785

By the way, the admonition to not run full power is probably
referring to using the internal FSK keyer, where I think you can use
the carrier level to set the output power.

I don't know that anyone really operates that way anymore. With AFSK
and the right software, it's a lot easier to tune and work several
contacts simultaneously without having to worry about the transceiver
frequency. Most decent software will dynamically adapt (within
reasonable limits) to the mark and shift.

Al
AB2ZY

--- In TS-520_820_530_830@yahoogroups.com, "al_kozakiewicz"
<akozak@...> wrote:
>
>
> I decided to try RTTY for the first time on the morning of the ARRL
RTTY
> Roundup. I already had the software (MTTY) and cables going to the
> phone patch interface of my rig (TS-820S) and had done some
receiving,
> but had never tried transmitting, never mind a digital QSO.
>
> At any rate, this <http://www.aa5au.com/rtty.html> page helped
> enormously, especially the section entitled Transmitting AFSK with
MTTY.
> Adjust the ALC until you get the meter to move, and then back it off
> until the ALC reads zero.
>
> I made about 150 QSO's during the contest, only operating about 3.5
> hours. It was a fun way to learn.
>
> Al
>
> AB2ZY
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830@yahoogroups.com> , Phil Barnett <philb@>
> wrote:
> >
> > carboncarolina78 wrote:
> > > Am a very real novice at this point. I see I should not operate
at
> > > full power, but only about 25 percent. Can someone explain the
> > > "proper" way to turn down power on the 830 and perhaps also on a

> > > TS-120. I have an idea, but would like verification with some
step
> by
> > > step instructions in setting the rig up. Better safe than sorry.
> > >
> > >
> > Don't turn the radio power down. That will increase ALC, which is
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> > thing for digital modes and introduces distortion.
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> > Leave the radio capable of full power, then turn down the signal
> coming
> > from the computer. If you need a more fine grained control, put a
pot
> > across the signal coming from the computer and run one side and
the
> > wiper to the transmitter input.
> >
> > You should have NO ALC when it's set up right.
> >
>
>
>
>
> [Non-text portions of this message have been removed]
>

19786. Re: TS 820 AF-AVR Board (In Sheeps Clothing)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-23 14:07:55 UTC
From: w5rkl
Topic: 19781 Message: 19786

Bill,

I found a few possible VR4 substitutes from Mouser Electronics. These are vertical adjust multi turn trim pots, each 500 ohms. The base pin orientation appears to be the same as the original pot, triangle.

www.mouser.com

Mouser part number is

81-PV37Y501C01B00

Price is $1.30

or

652-3299Y-1-501LF

Price is $2.65

url to Mouse's list of "trim pots" is

http://mouser.com/search/Refine.aspx?N=254352

Click on the trim pot multi turn link then select from the list the pot you are looking for.

I have used this type of vertical trim pot in Heathkit HW-100 and SB-100 series transceivers as replacements for the 200 ohm Carrier Null pots and they are very precise and work very well.

VR1 is a "2" legged pot. A "3" legged pot could be used as a replacement but the center (wiper) pin would have to be soldered to one of the outer legs or the center wiper and one outer leg be used leaving the other outer leg free.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Bill Marvin" <wmarvin@...> wrote:
>
> I've had my TS820 for about 5 yrs. Went to adjust the AVR Brd 9V and
> 3.3V...........the VR4 trimmer (500 ohm) has a broken leg and I'm not
> sure about VR1 50K ohm.
>
> Radio Shack does not carry these vertical small trimpots. Would any one
> have any replacements new or used pots?

>
> Thanks
>
> Bill KB9IV
>

19787. Re: [TS-520_820_530_830] Old Kenwodd Hybrids

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-23 15:35:21 UTC
From: Daniel TOESCA
Topic: 19759 Message: 19787

Hi Rich,

Sorry to say it, but I had quite a few band oscillator issues with the R-599
and TS-515 (european TS-511) and TS-520 sets.

Even with a JR-500 with impossible Xtal frequencies.

In contrast, never an issue with the Y...u FT-101 and FR-101 Xtals.

Why ???

Despite that, I still love those Trio / Kenwood oldies !

73's - Daniel, ON5PY

2009/1/22, Rich Jones <michjonezee@...>:
>
> Am I the only guy who buys and old Kenwood Hybred that never has any
> problem, they work like they are suppose to, put out full power, no
> glitz in the pots, the VFO is right on and all the lights work and no
> hum on transmit. Just curious, must be a lot of abused rigs for sale
> out there. Best good wishes and happy trails with your rigs. Rich K8UV
>
>
>

[Non-text portions of this message have been removed]

19788. Re: Finally gone digital

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-23 17:00:48 UTC
From: w5rkl
Topic: 19782 Message: 19788

"Don't turn the radio power down. That will increase ALC, which is a
bad thing for digital modes and introduces distortion."

I disagree with this. Reducing power output will not increase ALC. On
the contrary a reduction of RF driving power will reduce the level of ALC.

ALC is a "control voltage" that is used to control the gain of an
earlier stage. The ALC control voltage, "by itself", does not create
nor does it contribute to the level of amplifier distortion. The ALC
voltage does NOT increase when RF drive is "reduced".

ALC in a transmitter/transciever or fed back to a
transmitter/transceiver from a linear amplifier, operates the same as
AGC does in a receiver, controls the gain of an earlier stage.

ALC is NOT always a bad thing and is not limited to digital modes. If
a transmitter/transceiver ALC meter reading consistently is at or
exceeds the ALC meter scale then the operator is over driving the
input of the final amplifier and a reduction in the MIC gain in
sideband is required. ALC in TUNE mode is nothing more than a "tuning
aide", nothing more, and does not constitute a bad thing when peaking
the ALC during tune up.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Phil Barnett <philb@...> wrote:
>
> carboncarolina78 wrote:
> > Am a very real novice at this point. I see I should not operate at
> > full power, but only about 25 percent. Can someone explain the
> > "proper" way to turn down power on the 830 and perhaps also on a
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>
> Leave the radio capable of full power, then turn down the signal coming
> from the computer. If you need a more fine grained control, put a pot
> across the signal coming from the computer and run one side and the
> wiper to the transmitter input.
>
> You should have NO ALC when it's set up right.

>

19789. (no subject)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-23 21:01:11 UTC
From: Thomas Carney
Topic: 19789 Message: 19789

61 kHz is a common frequency for switching power supplies. Do you have any equipment on switching supplies???

As a rule, I keep linear supplies on my gear. Even the switching supplies in the fluorescent displays on my DVD player wreak havoc. When I do low signal work, I unplug anything with a fluorescent display in it.

73,

Tom WB9RXJ

[Non-text portions of this message have been removed]

19790. Re: Birdie, image, some damn thing...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-23 21:14:01 UTC
From: Aaron
Topic: 19767 Message: 19790

Well I have birdies all over the place and its from my DSL modem which is on the other side of the house.

First step is to unplug everything that is on the same circuit as the rig.

Next go to the breaker panel and start shutting down the power to sections of the house one breaker at a time. Check the rig for birdies every time you shut a breaker off. If it is in the house that will narrow it down fairly quick for you.

Aaron
KD4GSL

--- In TS-520_820_530_830@yahoogroups.com, "al_kozakiewicz" <akozak@...> wrote:
>
> TS-820S.
>
> On 20m and 15m (I haven't checked 10m - why bother at this point in the
> solar cycle), I hear some kind of signal every 61 kHz. It kinda sounds
> like a buzzsaw in a sea shell.
>
> I know I haven't given a whole lot of useful information, but I was
> wondering if anyone else experienced this with a Kenwood. Is it likely
> something with the receiver, or should I go looking for outside sources
> (computers, network equipment, wireless router, ???)? Is there
> something magic about 61 kHz that escapes me?
>
> Al
> AB2ZY
>

19791. Re: [TS-520_820_530_830] Re: Birdie, image, some damn thing...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-23 21:39:52 UTC
From: N6WK
Topic: 19767 Message: 19791

Hi Aaron, My old DSL modem used to do that too.
I cured it by purchasing SHIELDED CAT 6 cables for the Modem and all
of my Home networking.
No More interference from that stuff.

73,
Gordon
N6WK

Aaron wrote:
>
> Well I have birdies all over the place and its from my DSL modem which
> is on the other side of the house.
>
> First step is to unplug everything that is on the same circuit as the
> rig.
>
> Next go to the breaker panel and start shutting down the power to
> sections of the house one breaker at a time. Check the rig for birdies
> every time you shut a breaker off. If it is in the house that will
> narrow it down fairly quick for you.
>
> Aaron
> KD4GSL
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "al_kozakiewicz"
> <akozak@...> wrote:
> >
> > TS-820S.
> >
> > On 20m and 15m (I haven't checked 10m - why bother at this point in
> the
> > solar cycle), I hear some kind of signal every 61 kHz. It kinda
> sounds
> > like a buzzsaw in a sea shell.
> >
> > I know I haven't given a whole lot of useful information, but I was
> > wondering if anyone else experienced this with a Kenwood. Is it
> likely
> > something with the receiver, or should I go looking for outside
> sources
> > (computers, network equipment, wireless router, ???)? Is there
> > something magic about 61 kHz that escapes me?
> >

> > Al
> > AB2ZY
> >
>
>
> Messages in this topic
> <http://groups.yahoo.com/group/TS-520_820_530_830/message/19767;_ylc=X3oDMTM2c2ppa3VvBF9
TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzE5NzkwBHNlYwNmdHIEc2xrA
3Z0cGMEc3RpbWUDMTIzMjc0NTI0NAR0cGNJZAMxOTc2Nw-->
> (5)
> <http://groups.yahoo.com/group/TS-520_820_530_830/post;_ylc=X3oDMTJxaXM1cmMzBF9TAzk3MzU5
NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzE5NzkwBHNlYwNmdHIEc2xrA3JwbHkEc3
RpbWUDMTIzMjc0NTI0NA--?act=reply&messageNum=19790>

19792. Re: [TS-520_820_530_830] Re: Birdie, image, some damn thing...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-23 21:28:59 UTC
From: Bill & Becky Marvin
Topic: 19767 Message: 19792

I have found the DSL lines coming from the line-in to the source enclosure (Plastic Box Not Shielded) gives off a Chugging
pulse noise. Give me a call to hear it over the phone 507.833.7180 anytime.

Best 73

Bill KB9IV

----- Original Message -----
From: Aaron
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 23, 2009 3:14 PM
Subject: [TS-520_820_530_830] Re: Birdie, image, some damn thing...

Well I have birdies all over the place and its from my DSL modem which
is on the other side of the house.

First step is to unplug everything that is on the same circuit as the
rig.

Next go to the breaker panel and start shutting down the power to
sections of the house one breaker at a time. Check the rig for birdies every time you shut a breaker off. If it is in the house that will
narrow it down fairly quick for you.

Aaron
KD4GSL

--- In TS-520_820_530_830@yahoogroups.com, "al_kozakiewicz"
<akozak@...> wrote:
>
> TS-820S.
>
> On 20m and 15m (I haven't checked 10m - why bother at this point in
the
> solar cycle), I hear some kind of signal every 61 kHz. It kinda
sounds
> like a buzzsaw in a sea shell.
>
> I know I haven't given a whole lot of useful information, but I was
> wondering if anyone else experienced this with a Kenwood. Is it
likely
> something with the receiver, or should I go looking for outside
sources
> (computers, network equipment, wireless router, ???)? Is there
> something magic about 61 kHz that escapes me?
>

> Al
> AB2ZY
>

[Non-text portions of this message have been removed]

19793. TS530s sudden problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-23 21:41:10 UTC
From: megenr
Topic: 19793 Message: 19793

I have had my TS530s for 20 years, never had problem till last week. The rig has gone from 100 watts output and excellent audio, to how it is now, about 20 watts output on SSB, 50 watts on CW, and have gotten bad audio reports now, along with a bad raspy CW signal . This all happened overnight.

I changed the 12by7a driver, no change. I changed both 6146Bs with a pair of unknown condition from a hamfest. Also no change. I put the original tubes back in, no change.

Idle current 60ma. CW IP now 125ma, used to be 230ma. Same for SSB.

Nothing in final section looks burnt, but this was my first look inside, so I don't trust my own observations.

Since I dont trust the hamfest finals and driver, I thought I would put this out to you all before I take a gamble on buying all new tubes, at over $100. If that didnt fix the problem of my beloved rig, I am sure my wife would remind me of it the rest of my life. HELP

19794. Re: TS530s sudden problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-23 21:50:49 UTC
From: Gordon
Topic: 19793 Message: 19794

What does your HV read?

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "megenr" <megenr@...> wrote:
>
> I have had my TS530s for 20 years, never had problem till last week.
> The rig has gone from 100 watts output and excellent audio, to how it
> is now, about 20 watts output on SSB, 50 watts on CW, and have gotten
> bad audio reports now, along with a bad raspy CW signal . This all
> happened overnight.
>
> I changed the 12by7a driver, no change. I changed both 6146Bs with a
> pair of unknown condition from a hamfest. Also no change. I put the
> original tubes back in, no change.
>
> Idle current 60ma. CW IP now 125ma, used to be 230ma. Same for SSB.
>
> Nothing in final section looks burnt, but this was my first look
> inside, so I don't trust my own observations.
>
> Since I dont trust the hamfest finals and driver, I thought I would put
> this out to you all before I take a gamble on buying all new tubes, at
> over $100. If that didnt fix the problem of my beloved rig, I am sure
> my wife would remind me of it the rest of my life. HELP
>

19795. 9 pin remote VFO connector

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-23 22:13:40 UTC
From: ve3wej
Topic: 19578 Message: 19795

--- In TS-520_820_530_830@yahoogroups.com, David Lammers <ae4dl@...>
wrote:
>
> Thanks Dave but that is the female socket. I am looking for the male
connector which is the E05-0901-05 which is discontinued. 73's
>
>

finally had a chance to check this out, and shoot, you were right...
oh well

i need the male as well

19796. Re: [TS-520_820_530_830] I did it!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-23 23:30:18 UTC
From: richard
Topic: 19757 Message: 19796

```
On Wed, 21 Jan 2009 17:24:28 -0600
John Becker <jab@...> wrote:

> For what it's worth Angie, I hang out on 7240 most
> any evening starting about 8PM CST.
>
> John, W0JAB
> Louisiana Missouri
>
> On 1/21/2009 5:17:41 PM, Angelica (arkch1p@...) wrote:
> > I made my first contacts two nights ago on 7178. I also ragchewed
> > on 3953 in Michigan.I was bound and determined to make an HF
> > contact and I did. Just thought I would share the good news.
> >
> > Angie KD8HMS
>
If you hang around below 7200, you might just find a few European
stations as well.

--
Best wishes

Richard Bown

##########################################################################
Registered Linux User 36561
OS: Ubuntu 8.10, Intrepid, on AMD Dual Athlon 64 +4400: 8 GB RAM DDR2
Ham Call: G8JVM , QRA IO82SP, Interests Microwave
##########################################################################
```

19797. Re: [TS-520_820_530_830] I did it!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-24 00:32:27 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 19757 Message: 19797

On Fri, 2009-01-23 at 23:30 +0000, richard wrote:
> On Wed, 21 Jan 2009 17:24:28 -0600
> John Becker <jab@...> wrote:
>
> > For what it's worth Angie, I hang out on 7240 most
> > any evening starting about 8PM CST.
> >
> > John, W0JAB
> > Louisiana Missouri
> >
> > On 1/21/2009 5:17:41 PM, Angelica (arkch1p@...) wrote:
> > > I made my first contacts two nights ago on 7178. I also ragchewed
> > > on 3953 in Michigan.I was bound and determined to make an HF
> > > contact and I did. Just thought I would share the good news.
> > >
> > > Angie KD8HMS
> >
> If you hang around below 7200, you might just find a few European
> stations as well.

I'm mostly active on PSK31 on 40m, around 7037kHz. Feel free to give me a shout. Today, 20m was quite open to the US and Canada, so it might be worth giving that a go too!

Gordon

19798. Re: [TS-520_820_530_830] Re: Birdie, image, some damn thing...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-24 00:51:35 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 19767 Message: 19798

On Fri, 2009-01-23 at 21:14 +0000, Aaron wrote:
> Well I have birdies all over the place and its from my DSL modem which
> is on the other side of the house.
>
> First step is to unplug everything that is on the same circuit as the
> rig.
>
> Next go to the breaker panel and start shutting down the power to
> sections of the house one breaker at a time. Check the rig for birdies every time you shut a breaker off.

When you can't hear anything at all, you've pulled the breaker to the shack. It's an effective way of getting rid of QRM, but somewhat limiting in terms of actual operation.

Gordon

19799. Re: Finally gone digital

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-24 01:57:29 UTC
From: carboncarolina78
Topic: 19782 Message: 19799

Thanks Al and also the other who responded. The aa5au link was a lifesaver for setting up the MMTTY. I got it loaded and also loaded Digipan 2.0 tonight. I didn't transmit any yet, but will get back on the horse in the morning. Didn't see any RTTY signals, but did see several PSKs.

Thanks again,
73<
Steve W3DB

--- In TS-520_820_530_830@yahoogroups.com, "al_kozakiewicz" <akozak@...> wrote:
>
>
> I decided to try RTTY for the first time on the morning of the ARRL RTTY
> Roundup. I already had the software (MTTY) and cables going to the
> phone patch interface of my rig (TS-820S) and had done some receiving,
> but had never tried transmitting, never mind a digital QSO.
>
> At any rate, this <http://www.aa5au.com/rtty.html> page helped
> enormously, especially the section entitled Transmitting AFSK with MTTY.
> Adjust the ALC until you get the meter to move, and then back it off
> until the ALC reads zero.
>
> I made about 150 QSO's during the contest, only operating about 3.5
> hours. It was a fun way to learn.
>
> Al
>
> AB2ZY
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830@yahoogroups.com> , Phil Barnett <philb@>
> wrote:
> >
> > carboncarolina78 wrote:
> > > Am a very real novice at this point. I see I should not operate at
> > > full power, but only about 25 percent. Can someone explain the
> > > "proper" way to turn down power on the 830 and perhaps also on a
> > > TS-120. I have an idea, but would like verification with some step
> by
> > > step instructions in setting the rig up. Better safe than sorry.
> > >
> > >
> > Don't turn the radio power down. That will increase ALC, which is a

> bad
> > thing for digital modes and introduces distortion.
> >
> > Leave the radio capable of full power, then turn down the signal
> coming
> > from the computer. If you need a more fine grained control, put a pot
> > across the signal coming from the computer and run one side and the
> > wiper to the transmitter input.
> >
> > You should have NO ALC when it's set up right.
> >
>
>
>
>
> [Non-text portions of this message have been removed]
>

19800. Re: [TS-520_820_530_830] Re: TS530s sudden problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-24 01:41:29 UTC
From: R Megen
Topic: 19793 Message: 19800

Hi Gordon, my meter on front of rig shows 400 Volts. By the way, the receiver section appears not affected, still receiving excellent. Thanks, Ron Megen N4PEG

--- On Fri, 1/23/09, Gordon <n6wk@...> wrote:

From: Gordon <n6wk@...>
Subject: [TS-520_820_530_830] Re: TS530s sudden problem
To: TS-520_820_530_830@yahoogroups.com
Date: Friday, January 23, 2009, 4:50 PM

What does your HV read?

Gordon
N6WK

--- In TS-520_820_530_ 830@yahoogroups. com, "megenr" <megenr@...> wrote:
>
> I have had my TS530s for 20 years, never had problem till last week.
> The rig has gone from 100 watts output and excellent audio, to how it
> is now, about 20 watts output on SSB, 50 watts on CW, and have gotten
> bad audio reports now, along with a bad raspy CW signal . This all
> happened overnight.
>
> I changed the 12by7a driver, no change. I changed both 6146Bs with a
> pair of unknown condition from a hamfest. Also no change. I put the
> original tubes back in, no change.
>
> Idle current 60ma. CW IP now 125ma, used to be 230ma. Same for SSB.
>
> Nothing in final section looks burnt, but this was my first look
> inside, so I don't trust my own observations.
>
> Since I dont trust the hamfest finals and driver, I thought I would put
> this out to you all before I take a gamble on buying all new tubes, at
> over $100. If that didnt fix the problem of my beloved rig, I am sure
> my wife would remind me of it the rest of my life. HELP
>

[Non-text portions of this message have been removed]

19801. Re: TS530s sudden problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-24 02:06:21 UTC
From: Gordon
Topic: 19793 Message: 19801

Your HV Caps have gone Bad.
Replace them and your HV will be back up over 800 volts and the Radio
will come back to Life.
K4EAA sells HV Cap kits very reasonable.

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, R Megen <megenr@...> wrote:
>
> Hi Gordon, my meter on front of rig shows 400 Volts. By the way,
the receiver section appears not affected, still receiving excellent.
Thanks, Ron Megen N4PEG
>
> --- On Fri, 1/23/09, Gordon <n6wk@...> wrote:
>
> From: Gordon <n6wk@...>
> Subject: [TS-520_820_530_830] Re: TS530s sudden problem
> To: TS-520_820_530_830@yahoogroups.com
> Date: Friday, January 23, 2009, 4:50 PM
>
>
>
>
>
>
>
> What does your HV read?
>
> Gordon
> N6WK
>
> --- In TS-520_820_530_ 830@yahoogroups. com, "megenr" <megenr@> wrote:
> >
> > I have had my TS530s for 20 years, never had problem till last week.
> > The rig has gone from 100 watts output and excellent audio, to how it
> > is now, about 20 watts output on SSB, 50 watts on CW, and have gotten
> > bad audio reports now, along with a bad raspy CW signal . This all
> > happened overnight.
> >
> > I changed the 12by7a driver, no change. I changed both 6146Bs with a
> > pair of unknown condition from a hamfest. Also no change. I put the
> > original tubes back in, no change.
> >
> > Idle current 60ma. CW IP now 125ma, used to be 230ma. Same for SSB.
> >

> > Nothing in final section looks burnt, but this was my first look
> > inside, so I don't trust my own observations.
> >
> > Since I dont trust the hamfest finals and driver, I thought I
would put
> > this out to you all before I take a gamble on buying all new
tubes, at
> > over $100. If that didnt fix the problem of my beloved rig, I am sure
> > my wife would remind me of it the rest of my life. HELP
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> [Non-text portions of this message have been removed]
>

19802. Re: TS530s sudden problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-24 03:33:32 UTC
From: megenr
Topic: 19793 Message: 19802

Thanks Gordon for the quick reply, I am ordering the HV caps, thanks for the website! Thanks again for helping to get my old friend Ts530s back on the air. 73's Ron Megen N4PEG

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Your HV Caps have gone Bad.
> Replace them and your HV will be back up over 800 volts and the Radio
> will come back to Life.
> K4EAA sells HV Cap kits very reasonable.
>
> Gordon
> N6WK
>
> --- In TS-520_820_530_830@yahoogroups.com, R Megen megenr@ wrote:
> >
> > Hi Gordon, my meter on front of rig shows 400 Volts. By the way,
> the receiver section appears not affected, still receiving excellent.
> Thanks, Ron Megen N4PEG
> >
> > --- On Fri, 1/23/09, Gordon n6wk@ wrote:
> >
> > From: Gordon n6wk@
> > Subject: [TS-520_820_530_830] Re: TS530s sudden problem
> > To: TS-520_820_530_830@yahoogroups.com
> > Date: Friday, January 23, 2009, 4:50 PM
> >
> >
> >
> >
> >
> >
> >
> > What does your HV read?
> >
> > Gordon
> > N6WK
> >
> > --- In TS-520_820_530_ 830@yahoogroups. com, "megenr" <megenr@>
wrote:
> > >
> > > I have had my TS530s for 20 years, never had problem till last
week.
> > > The rig has gone from 100 watts output and excellent audio, to how
it
> > > is now, about 20 watts output on SSB, 50 watts on CW, and have

gotten
> > > bad audio reports now, along with a bad raspy CW signal . This all
> > > happened overnight.
> > >
> > > I changed the 12by7a driver, no change. I changed both 6146Bs with
a
> > > pair of unknown condition from a hamfest. Also no change. I put
the
> > > original tubes back in, no change.
> > >
> > > Idle current 60ma. CW IP now 125ma, used to be 230ma. Same for
SSB.
> > >
> > > Nothing in final section looks burnt, but this was my first look
> > > inside, so I don't trust my own observations.
> > >
> > > Since I dont trust the hamfest finals and driver, I thought I
> would put
> > > this out to you all before I take a gamble on buying all new
> tubes, at
> > > over $100. If that didnt fix the problem of my beloved rig, I am
sure
> > > my wife would remind me of it the rest of my life. HELP
> > >
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> > [Non-text portions of this message have been removed]
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>

[Non-text portions of this message have been removed]

19803. Re: [TS-520_820_530_830] Re: TS530s sudden problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-24 09:51:38 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 19793 Message: 19803

On Sat, 2009-01-24 at 02:06 +0000, Gordon wrote:
> Your HV Caps have gone Bad.
> Replace them and your HV will be back up over 800 volts and the Radio
> will come back to Life.
> K4EAA sells HV Cap kits very reasonable.

If it went suddenly, I'd check the HT rectifier diodes, too...

@Ron: if your HT PSU is healthy I'd expect to see about 900V or more with no anode current, dropping to around 800-850V with it running at full chat - at least, that seems to be where mine sits and that seems to agree with the manual ;-)

Just watch yourself in that power supply though - you may recall the mail to the list last week from a lucky person who *did* get a second chance when they got it wrong. I think as a group we've used that karma up now! Be safe, nearly 1kV at nearly quarter of an amp is easily enough to silence your key.

Gordon

19804. No power out

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-24 11:47:06 UTC
From: rickoreair
Topic: 19804 Message: 19804

I've tried tuning my 530, and get no output. The HV reads almost 900 volts, but there is no plate current when trying to tune. I've tried tuning in the ssb position as well as the tune position, but no Ip. I do not get an alc reading in the ssb position, but I do get ALC readings in the tune position. What should I check next?? Thanks
Rick WB4BSP

19805. Re: [TS-520_820_530_830] No power out

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-24 11:53:10 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 19804 Message: 19805

On Sat, 2009-01-24 at 11:47 +0000, rickoreair wrote:
> I've tried tuning my 530, and get no output. The HV reads almost 900
> volts, but there is no plate current when trying to tune. I've tried
> tuning in the ssb position as well as the tune position, but no Ip. I
> do not get an alc reading in the ssb position, but I do get ALC
> readings in the tune position. What should I check next?? Thanks
> Rick WB4BSP

You'd only get ALC readings if you were actually sending in some
modulation.

Have you followed the procedure in the manual for setting the idle
current? You should at least see 60mA or so with no modulation.

Note that I have a TS-520 not a TS-530, but I can't see that part being
very different.

Gordon

19806. Re: Finally gone digital

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-24 16:46:56 UTC
From: al_kozakiewicz
Topic: 19782 Message: 19806

Don't know if this matters much for you, but I just remembered that I finally ended up using a 40db (or something big like that) attenuation Radio Shack Special patch cord to connect the speaker out of my soundcard (which is built into a laptop) to the audio in of the phone patch. I found that the audio level was just too high to perform any kind of delicate adjustments otherwise. I run the computer with the output volume on full and the microphone level control around 12 o'clock with that much attenuation to get the right modulation.

If you're running a desktop PC with a line out level from the soundcard you probably won't need the attenuation, or at least not that much.

Al
AB2ZY

--- In TS-520_820_530_830@yahoogroups.com, "carboncarolina78" <setaf@...> wrote:
>
> Thanks Al and also the other who responded. The aa5au link was a
> lifesaver for setting up the MMTTY. I got it loaded and also loaded
> Digipan 2.0 tonight. I didn't transmit any yet, but will get back on
> the horse in the morning. Didn't see any RTTY signals, but did see
> several PSKs.
>
> Thanks again,
> 73<
> Steve W3DB
>
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "al_kozakiewicz"
> <akozak@> wrote:
> >
> >
> > I decided to try RTTY for the first time on the morning of the ARRL RTTY
> > Roundup. I already had the software (MTTY) and cables going to the
> > phone patch interface of my rig (TS-820S) and had done some receiving,
> > but had never tried transmitting, never mind a digital QSO.
> >

> > At any rate, this <http://www.aa5au.com/rtty.html> page helped
> > enormously, especially the section entitled Transmitting AFSK
with MTTY.
> > Adjust the ALC until you get the meter to move, and then back it
off
> > until the ALC reads zero.
> >
> > I made about 150 QSO's during the contest, only operating about
3.5
> > hours. It was a fun way to learn.
> >
> > Al
> >
> > AB2ZY
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830@yahoogroups.com> , Phil Barnett
<philb@>
> > wrote:
> > >
> > > carboncarolina78 wrote:
> > > > Am a very real novice at this point. I see I should not
operate at
> > > > full power, but only about 25 percent. Can someone explain the
> > > > "proper" way to turn down power on the 830 and perhaps also
on a
> > > > TS-120. I have an idea, but would like verification with some
step
> > by
> > > > step instructions in setting the rig up. Better safe than
sorry.
> > > >
> > > >
> > > Don't turn the radio power down. That will increase ALC, which
is a
> > bad
> > > thing for digital modes and introduces distortion.
> > >
> > > Leave the radio capable of full power, then turn down the signal
> > coming
> > > from the computer. If you need a more fine grained control, put
a pot
> > > across the signal coming from the computer and run one side and
the
> > > wiper to the transmitter input.
> > >
> > > You should have NO ALC when it's set up right.
> > >
> >
> >

> >
> >
> > [Non-text portions of this message have been removed]
> >
>

19807. Re: No power out

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-24 17:17:58 UTC
From: Gordon
Topic: 19804 Message: 19807

Rick,
make sure the SG switch is ON in the back of the radio.

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "rickoreair"
<rickoreair@...> wrote:
>
> I've tried tuning my 530, and get no output. The HV reads almost 900
> volts, but there is no plate current when trying to tune. I've tried
> tuning in the ssb position as well as the tune position, but no Ip. I
> do not get an alc reading in the ssb position, but I do get ALC
> readings in the tune position. What should I check next?? Thanks
> Rick WB4BSP
>

19808. Re: TS530s sudden problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-24 14:26:49 UTC
From: megenr
Topic: 19793 Message: 19808

Thanks Gordon, I will look to see the best way to discharge the
charge in the HV caps. That part worries me. 73 Ron Megen.

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce MM3YEQ
<gordon@...> wrote:
>
> On Sat, 2009-01-24 at 02:06 +0000, Gordon wrote:
> > Your HV Caps have gone Bad.
> > Replace them and your HV will be back up over 800 volts and the
Radio
> > will come back to Life.
> > K4EAA sells HV Cap kits very reasonable.
>
> If it went suddenly, I'd check the HT rectifier diodes, too...
>
> @Ron: if your HT PSU is healthy I'd expect to see about 900V or more
> with no anode current, dropping to around 800-850V with it running
at
> full chat - at least, that seems to be where mine sits and that
seems to
> agree with the manual ;-)
>
> Just watch yourself in that power supply though - you may recall the
> mail to the list last week from a lucky person who *did* get a
second
> chance when they got it wrong. I think as a group we've used that
karma
> up now! Be safe, nearly 1kV at nearly quarter of an amp is easily
> enough to silence your key.
>
> Gordon
>

19809. Re: [TS-520_820_530_830] Re: No power out

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-24 17:44:18 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 19804 Message: 19809

On Sat, 2009-01-24 at 17:17 +0000, Gordon wrote:
> Rick,
> make sure the SG switch is ON in the back of the radio.

Bah. Never thought of that one. I bet that's going to catch me out one day...

Other Gordon, MM3YEQ.

19810. Re: No power out

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-25 00:45:20 UTC
From: rickoreair
Topic: 19804 Message: 19810

-Thank you Gordon. Something as simple as the SG switch. I had followed the instructions over and over and over, but nothing until I turned ON the SG switch. Thanks a million, and I think the group should triple your salary. :) I've had a blast bringing my old 530 back to life, and this was a major hurdle overcome.

Thanks again. 73

Rick

-- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Rick,
> make sure the SG switch is ON in the back of the radio.
>
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "rickoreair"
> <rickoreair@> wrote:
> >
> > I've tried tuning my 530, and get no output. The HV reads almost
900
> > volts, but there is no plate current when trying to tune. I've
tried
> > tuning in the ssb position as well as the tune position, but no
Ip. I
> > do not get an alc reading in the ssb position, but I do get ALC
> > readings in the tune position. What should I check next?? Thanks
> > Rick WB4BSP
> >
>

19811. (no subject)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-25 02:23:16 UTC
From: Angelica
Topic: 19811 Message: 19811

Richard,

I can't hang below 7178 because I'm only a general. Hopefully I can hear from Europe between that and 7200. :)

73 Angie KD8HMS
>8a. Re: I did it!
Posted by: "richard" richard.bown@... g8jvm
Date: Fri Jan 23, 2009 3:30 pm ((PST))

If you hang around below 7200, you might just find a few European
stations as well.

--
Best wishes

Richard Bown

19812. RE: I did it!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-25 02:24:47 UTC
From: Angelica
Topic: 19757 Message: 19812

John,
Are there any particular days you're located there?
That's about 9p Eastern time.

73 Angie KD8HMS

>On Wed, 21 Jan 2009 17:24:28 -0600
John Becker <jab@...> wrote:

> For what it's worth Angie, I hang out on 7240 most
> any evening starting about 8PM CST.
>
> John, W0JAB
> Louisiana Missouri

19813. (no subject)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-25 02:28:14 UTC
From: Angelica
Topic: 19813 Message: 19813

Gordon,
I'm thinking about trying 20m pretty soon. As far as 40M, I am a general and can't get lower than 7175 (7178 I heard because of the 3khz leeway?).
Have fun on PSK31. :)
73 ANgie KDHMS

>8b. Re: I did it!
Posted by: "Gordon JC Pearce MM3YEQ" gordon@... gordonjcp
Date: Fri Jan 23, 2009 4:32 pm ((PST))

I'm mostly active on PSK31 on 40m, around 7037kHz. Feel free to give me a shout. Today, 20m was quite open to the US and Canada, so it might be worth giving that a go too!

Gordon

19814. RE: [TS-520_820_530_830] RE: I did it!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-25 03:30:09 UTC
From: Kevin King
Topic: 19757 Message: 19814

On 24.950 at 10:39 eastern time, we have many 8 calls coming into Georgia.

Give us a call ...

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Angelica
Sent: Saturday, January 24, 2009 9:25 PM
To: TS Kenwood
Cc: jab@...
Subject: [TS-520_820_530_830] RE: I did it!

John,
Are there any particular days you're located there?
That's about 9p Eastern time.

73 Angie KD8HMS

>On Wed, 21 Jan 2009 17:24:28 -0600
John Becker <jab@...> wrote:

> For what it's worth Angie, I hang out on 7240 most
> any evening starting about 8PM CST.
>
> John, W0JAB
> Louisiana Missouri

Yahoo! Groups Links

19815. Re: No power out

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-25 06:28:56 UTC
From: Gordon
Topic: 19804 Message: 19815

Rick,
You are NOT the first to be bitten by the OFF SG switch.
I am pleased it was something so simple though.
Have Fun.

73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "rickoreair"
<rickoreair@...> wrote:
>
> -Thank you Gordon. Something as simple as the SG switch. I had
> followed the instructions over and over and over, but nothing until I
> turned ON the SG switch. Thanks a million, and I think the group
> should triple your salary. :) I've had a blast bringing my old 530
> back to life, and this was a major hurdle overcome.
>
> Thanks again. 73
>
> Rick
>
>
>
>
> -- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Rick,
> > make sure the SG switch is ON in the back of the radio.
> >
> > 73,
> > Gordon
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "rickoreair"
> > <rickoreair@> wrote:
> > >
> > > I've tried tuning my 530, and get no output. The HV reads almost
> 900
> > > volts, but there is no plate current when trying to tune. I've
> tried
> > > tuning in the ssb position as well as the tune position, but no
> Ip. I
> > > do not get an alc reading in the ssb position, but I do get ALC
> > > readings in the tune position. What should I check next?? Thanks
> > > Rick WB4BSP

> > >
> >
>

19816. Trio TS-520D vs. Kenwood TS-520(S?)...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-25 07:10:16 UTC
From: Jason
Topic: 19816 Message: 19816

Hello all,
I have a Trio TS-520D, and I was wondering what the differences between this rig and the TS-520S might be. I searched the message archive, and found that this was discussed in a thread back in 2006. That thread concluded that the 520D was the Japanese version of the 520S. There was a mention of the 520D having only a 75 watt final, but no follow-up conversation regarding the actual output power.

Very recently I purchased an AT-200 tuner. This represents the first watt-meter of reasonable quality that I have been able to attach to this rig. I don't seem to be able to tune the rig up beyond 70 watts.

So my question is this... Is the 520D limited by its final to 75 watts max, or is the lower power due to the rig's age or (very possibly) operator's error? Is there someway for me to inspect the final and determine the configuration?

Thanks for reading...
Jason AE5KR

19817. Re: [TS-520_820_530_830] Trio TS-520D vs. Kenwood TS-520(S?)...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-25 14:40:25 UTC
From: ve3wej gmail
Topic: 19816 Message: 19817

what does the manual say (assuming you have one with it or found the pdf for it)....

VE3WEJ
Dave Garber

10-X # 23465
echolink # 52852
irlp node 2202
email ve3wej@...
----- Original Message -----
From: Jason
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, January 25, 2009 2:10 AM
Subject: [TS-520_820_530_830] Trio TS-520D vs. Kenwood TS-520(S?)...

Hello all,
I have a Trio TS-520D, and I was wondering what the differences between this rig and the TS-520S might be. I searched the message archive, and found that this was discussed in a thread back in 2006. That thread concluded that the 520D was the Japanese version of the 520S. There was a mention of the 520D having only a 75 watt final, but no follow-up conversation regarding the actual output power.

Very recently I purchased an AT-200 tuner. This represents the first watt-meter of reasonable quality that I have been able to attach to this rig. I don't seem to be able to tune the rig up beyond 70 watts.

So my question is this... Is the 520D limited by its final to 75 watts max, or is the lower power due to the rig's age or (very possibly) operator's error? Is there someway for me to inspect the final and determine the configuration?

Thanks for reading...
Jason AE5KR

[Non-text portions of this message have been removed]

19818. Re: Birdie, image, some damn thing...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-25 16:15:04 UTC
From: Rich Jones
Topic: 19767 Message: 19818

The interference could also come from a close by neighbor. I had a neighbor's furnace causing interference years ago. I help him fix it, that of course is up to you. Good luck

[Non-text portions of this message have been removed]

19819. Re: Trio TS-520D vs. Kenwood TS-520(S?)...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-25 17:12:33 UTC
From: boat.anchor
Topic: 19816 Message: 19819

I believe the Trio TS-520Dis thought to be a Japanese home market
rig.
Check and see if there is only one final tube in the rig.
regards
Barry
CF7GEM

--- In TS-520_820_530_830@yahoogroups.com, "ve3wej gmail"
<ve3wej@...> wrote:
>
> what does the manual say (assuming you have one with it or found
the pdf for it)....
>
>
> VE3WEJ
> Dave Garber
>
> 10-X # 23465
> echolink # 52852
> irlp node 2202
> email ve3wej@...
> ----- Original Message -----
> From: Jason
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, January 25, 2009 2:10 AM
> Subject: [TS-520_820_530_830] Trio TS-520D vs. Kenwood TS-520
(S?)...
>
>
> Hello all,
> I have a Trio TS-520D, and I was wondering what the differences
between
> this rig and the TS-520S might be. I searched the message
archive, and
> found that this was discussed in a thread back in 2006. That
thread
> concluded that the 520D was the Japanese version of the 520S.
There
> was a mention of the 520D having only a 75 watt final, but no
follow-up
> conversation regarding the actual output power.
>
> Very recently I purchased an AT-200 tuner. This represents the
first
> watt-meter of reasonable quality that I have been able to attach

to
> this rig. I don't seem to be able to tune the rig up beyond 70
watts.
>
> So my question is this... Is the 520D limited by its final to 75
watts
> max, or is the lower power due to the rig's age or (very
possibly)
> operator's error? Is there someway for me to inspect the final
and
> determine the configuration?
>
> Thanks for reading...
> Jason AE5KR
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

19820. Re: Trio TS-520D vs. Kenwood TS-520(S?)...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-25 13:54:33 UTC
From: Jason
Topic: 19816 Message: 19820

Well embarrassingly enough, the limitation was due to operator error. I can get 90 watts from the rig when properly tuned on 80 meters, but only about 70 watts on 10 meters. I last used this rig twenty years ago (I was 15), and thought I remembered the tuning process well enough to extract full power. oh well...

On a side note, this radio was purchased in Japan by the original owner, but there are no Japanese markings on the rig of any kind. Aside from the Trio branding, and the 'D' designator it looks just like a 520S. Are there any known differences?

Thanks,
Jason AE5KR

--- In TS-520_820_530_830@yahoogroups.com, "Jason" <jbeens@...> wrote:
> I don't seem to be able to tune the rig up beyond 70 watts.
>

19821. Re: Trio TS-520D vs. Kenwood TS-520(S?)...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-25 14:52:47 UTC
From: Jason
Topic: 19816 Message: 19821

When I bought the rig, the manual I received was a photocopy of the Kenwood TS-520S manual. I don't know if the original manual was lost, or if it was not written in english, but I have not found a manual specifically for hte TS-520D. When the rig was purchased, it had not occured to me to ask about a manual. I was 14 and didn't think books were all that important :)

Live and learn.
Jason Beens
AE5KR

--- In TS-520_820_530_830@yahoogroups.com, "ve3wej gmail" <ve3wej@...> wrote:
>
> what does the manual say (assuming you have one with it or found the pdf for it)....
>
>
> VE3WEJ
> Dave Garber
>
> 10-X # 23465
> echolink # 52852
> irlp node 2202
> email ve3wej@...
> ----- Original Message -----
> From: Jason
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, January 25, 2009 2:10 AM
> Subject: [TS-520_820_530_830] Trio TS-520D vs. Kenwood TS-520 (S?)...
>
>
> Hello all,
> I have a Trio TS-520D, and I was wondering what the differences between
> this rig and the TS-520S might be. I searched the message archive, and
> found that this was discussed in a thread back in 2006. That thread
> concluded that the 520D was the Japanese version of the 520S. There
> was a mention of the 520D having only a 75 watt final, but no follow-up
> conversation regarding the actual output power.

>
> Very recently I purchased an AT-200 tuner. This represents the
first
> watt-meter of reasonable quality that I have been able to attach
to
> this rig. I don't seem to be able to tune the rig up beyond 70
watts.
>
> So my question is this... Is the 520D limited by its final to 75
watts
> max, or is the lower power due to the rig's age or (very
possibly)
> operator's error? Is there someway for me to inspect the final
and
> determine the configuration?
>
> Thanks for reading...
> Jason AE5KR
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

19822. question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-25 14:56:23 UTC
From: fc4131@aol.com
Topic: 19822 Message: 19822

I kind a have the same thing. Have a ts520. Needle reads about 175 at it's lowest point. Cannot get down to 60. Receives fine. Checked the switch in back,hoping to solve my dilemma. The two final tubes glow nicely.
Any suggestions? KC0YSH
**********From Wall Street to Main Street and everywhere in between, stay up-to-date with the latest news. (http://aol.com?ncid=emlcntaolcom00000023)

[Non-text portions of this message have been removed]

19823. MC-10 wiring

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-25 17:02:35 UTC
From: zuccolo.rm
Topic: 19823 Message: 19823

Dear group,
I've just bought a nice TS-520. I need to check (and, if the case, modify) the correct wiring of the MC-10 microphone.
I think I have a clear idea about the pin meanings however I am almost clueless about the wires color code. I did a search on the web and I tried to find previous posts about this topic in this helpful group. Both searches were inconclusive. Can you help me?
Many thanks indeed

Andrea

KE7CVC

19824. Re: [TS-520_820_530_830] MC-10 wiring

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-25 17:55:57 UTC
From: Don Thomas
Topic: 19823 Message: 19824

This link has everything you need. Enjoy....

http://homepage.ntlworld.com/rg4wpw/date.html

Don T.

--- On Sun, 1/25/09, zuccolo.rm <zuccolo@...> wrote:

From: zuccolo.rm <zuccolo@...>
Subject: [TS-520_820_530_830] MC-10 wiring
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, January 25, 2009, 11:02 AM

Dear group,
I've just bought a nice TS-520. I need to check (and, if the case,
modify) the correct wiring of the MC-10 microphone.
I think I have a clear idea about the pin meanings however I am
almost clueless about the wires color code. I did a search on the web
and I tried to find previous posts about this topic in this helpful
group. Both searches were inconclusive. Can you help me?
Many thanks indeed

Andrea

KE7CVC

[Non-text portions of this message have been removed]

19825. Re: [TS-520_820_530_830] question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-25 17:56:22 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 19822 Message: 19825

On Sun, 2009-01-25 at 09:56 -0500, fc4131@... wrote:
> I kind a have the same thing. Have a ts520. Needle reads about 175 at it's
> lowest point. Cannot get down to 60. Receives fine. Checked the switch in
> back,hoping to solve my dilemma. The two final tubes glow nicely.
> Any suggestions? KC0YSH

Check the two cathode resistors. One of mine had crumbled and fallen
apart! The other wasn't far behind, and broke up as soon as I touched
it.

Gordon

19826. Kenwood TS-830S Tune Position is not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-25 18:32:30 UTC
From: k5box
Topic: 19826 Message: 19826

My TS-830S has no output when switched to the Tune Position . I know when it is in this position the screen voltage is reduced.Is there a common problem with a resistor changeing values in this circuit?I have the service manual down loaded but it's hard to look at the path.Thanks for any help in solving this problem.

19827. Re: TS530s sudden problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-25 18:29:34 UTC
From: Spencer
Topic: 19793 Message: 19827

Just a note to all regarding voltage, current and your heart...If my memory serves me correctly it only requires 90 volts at 5 millamperes to induce MAJOR heart malfunction. Please consider this guys and gals, before you perform troubleshooting with the covers off, and use the advised saftey procedures and equipment as advised!!!
73 and God Bless all!
Spencer W1RGO

: if your HT PSU is healthy I'd expect to see about 900V or more
> > with no anode current, dropping to around 800-850V with it running
> at
> > full chat - at least, that seems to be where mine sits and that
> seems to
> > agree with the manual ;-)
> >
> > Just watch yourself in that power supply though - you may recall the
> > mail to the list last week from a lucky person who *did* get a
> second
> > chance when they got it wrong. I think as a group we've used that
> karma
> > up now! Be safe, nearly 1kV at nearly quarter of an amp is easily
> > enough to silence your key.
> >
> > Gordon
> >
>

19828. Re: [TS-520_820_530_830] Kenwood TS-830S Tune Position is not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-25 18:35:36 UTC
From: N6WK
Topic: 19826 Message: 19828

Yes, There are two 56k resistors that open up on the Rectifier Unit.
They are R15 and R16.

73,
Gordon
N6WK

k5box wrote:
>
> My TS-830S has no output when switched to the Tune Position . I know
> when it is in this position the screen voltage is reduced.Is there a
> common problem with a resistor changeing values in this circuit?I have
> the service manual down loaded but it's hard to look at the
> path.Thanks for any help in solving this problem.
>
>

19829. Re: TS530s sudden problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-25 18:37:48 UTC
From: gpe743
Topic: 19793 Message: 19829

Another good safety precaution as taught in the military, always
keep one hand in your pocket while troubleshooting .

Jerry WB6DYB

--- In TS-520_820_530_830@yahoogroups.com, "Spencer" <sjoy639280@...>
wrote:
>
> Just a note to all regarding voltage, current and your heart...If
my
> memory serves me correctly it only requires 90 volts at 5
millamperes
> to induce MAJOR heart malfunction. Please consider this guys and
> gals, before you perform troubleshooting with the covers off, and
use
> the advised saftey procedures and equipment as advised!!!
> 73 and God Bless all!
> Spencer W1RGO
>
> : if your HT PSU is healthy I'd expect to see about 900V or more
> > > with no anode current, dropping to around 800-850V with it
> running
> > at
> > > full chat - at least, that seems to be where mine sits and that
> > seems to
> > > agree with the manual ;-)
> > >
> > > Just watch yourself in that power supply though - you may
recall
> the
> > > mail to the list last week from a lucky person who *did* get a
> > second
> > > chance when they got it wrong. I think as a group we've used
> that
> > karma
> > > up now! Be safe, nearly 1kV at nearly quarter of an amp is
easily
> > > enough to silence your key.
> > >
> > > Gordon
> > >
> >
>

19830. Re: Kenwood TS-830S Tune Position is not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-25 18:38:47 UTC
From: w5rkl
Topic: 19826 Message: 19830

The 830's TUNE position 56K resistors, 2 of them, are located on the
830's RECTIFIER UNIT. One or both of these resistors may have changed
values.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "k5box" <k5box@...> wrote:
>
> My TS-830S has no output when switched to the Tune Position . I know
> when it is in this position the screen voltage is reduced.Is there a
> common problem with a resistor changeing values in this circuit?I have
> the service manual down loaded but it's hard to look at the
> path.Thanks for any help in solving this problem.
>

19831. RE: [TS-520_820_530_830] Re: Kenwood TS-830S Tune Position is not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-25 18:42:57 UTC
From: MIKE BOX
Topic: 19826 Message: 19831

Boy was that a QUICK response to my problem Thanks to all [might be more comeing] for takeing the time to respond!!This is a GREAT group with a lot of know-how and been there "It's not the class of license a person holds, It's the class of the person that holds the license."
MIKE BOX [K5BOX]

To: TS-520_820_530_830@yahoogroups.comFrom: w5rkl@...: Sun, 25 Jan 2009 18:38:47 +0000Subject: [TS-520_820_530_830] Re: Kenwood TS-830S Tune Position is not working

The 830's TUNE position 56K resistors, 2 of them, are located on the830's RECTIFIER UNIT. One or both of these resistors may have changedvalues.73MikeW5RKL--- In TS-520_820_530_830@yahoogroups.com, "k5box" <k5box@...> wrote:>> My TS-830S has no output when switched to the Tune Position . I know > when it is in this position the screen voltage is reduced.Is there a > common problem with a resistor changeing values in this circuit?I have > the service manual down loaded but it's hard to look at the > path.Thanks for any help in solving this problem.>

_____
Windows Live?: E-mail. Chat. Share. Get more ways to connect.
http://windowslive.com/howitworks?ocid=TXT_TAGLM_WL_t2_allup_howitworks_012009

[Non-text portions of this message have been removed]

19832. Re: [TS-520_820_530_830] Re: TS530s sudden problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-25 18:49:12 UTC
From: N6WK
Topic: 19793 Message: 19832

Yes,
I agree and I do that Religiously!

Gordon
N6WK

gpe743 wrote:
>
> Another good safety precaution as taught in the military, always
> keep one hand in your pocket while troubleshooting .
>
> Jerry WB6DYB
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Spencer" <sjoy639280@...>
> wrote:
> >
> > Just a note to all regarding voltage, current and your heart...If
> my
> > memory serves me correctly it only requires 90 volts at 5
> millamperes
> > to induce MAJOR heart malfunction. Please consider this guys and
> > gals, before you perform troubleshooting with the covers off, and
> use
> > the advised saftey procedures and equipment as advised!!!
> > 73 and God Bless all!
> > Spencer W1RGO
> >
> > : if your HT PSU is healthy I'd expect to see about 900V or more
> > > > with no anode current, dropping to around 800-850V with it
> > running
> > > at
> > > > full chat - at least, that seems to be where mine sits and that
> > > seems to
> > > > agree with the manual ;-)
> > > >
> > > > Just watch yourself in that power supply though - you may
> recall
> > the
> > > > mail to the list last week from a lucky person who *did* get a
> > > second
> > > > chance when they got it wrong. I think as a group we've used
> > that
> > > karma
> > > > up now! Be safe, nearly 1kV at nearly quarter of an amp is

> easily
> > > > enough to silence your key.
> > > >
> > > > Gordon
> > > >
> > >
> >
>
>

--
E-Mail Disclaimer This communication and any documents, files, or previous e-mail messages attached to it constitute an electronic communication within the scope of the Electronic Communication Privacy Act, 18 USCA 2510.This communication may contain non-public, confidential, or legally privileged information intended for the sole use of the intended recipient(s). The unlawful interception, use or disclosure of such information is strictly prohibited under 18 USCA 2511. Any review, reliance, or distribution by others or forwarding without expressed permission is strictly prohibited. If you are not the intended recipient, please contact the sender and delete all copies.

19833. Rx Audio Distortion

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-25 19:33:44 UTC
From: m3snd
Topic: 19833 Message: 19833

Hello group can anyone shed some light on the slight rx peak audio distortion i am experiencing on my Trio TS 830?
The sound of distortion is apparent with the internal and external sp230 when connected.
This seems to have gradually happened,and is more noticable on strong signals S8 upwards.
The bandswich is okay and the distortion in present on all bands and modes.

Any ideas will be gratefully received.

Kind regards Kev M3SND

19834. Re: [TS-520_820_530_830] Rx Audio Distortion

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-25 19:48:03 UTC
From: Ken Winterling
Topic: 19833 Message: 19834

Kev,

Check the Noise Blanker. It may be turned on and set for a high level.
Strong signals can distort the receive audio under these conditions.

Ken, WA2LBI

On Sun, Jan 25, 2009 at 14:33, m3snd <m3snd@...> wrote:

> Hello group can anyone shed some light on the slight rx peak audio
> distortion i am experiencing on my Trio TS 830?
> The sound of distortion is apparent with the internal and external
> sp230 when connected.
> This seems to have gradually happened,and is more noticable on strong
> signals S8 upwards.
> The bandswich is okay and the distortion in present on all bands and
> modes.
>
> Any ideas will be gratefully received.
>
> Kind regards Kev M3SND
>

[Non-text portions of this message have been removed]

19835. Re: [TS-520_820_530_830] Rx Audio Distortion

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-25 19:49:03 UTC
From: N6WK
Topic: 19833 Message: 19835

Kev,
Check and clean ALL the connectors on the IF board, the AF board and
the PLL board for starters.
Also, Loosen and then re-tighten ALL the screws mounting each board.
Let us know the results.

73,
Gordon
N6WK

m3snd wrote:
>
> Hello group can anyone shed some light on the slight rx peak audio
> distortion i am experiencing on my Trio TS 830?
> The sound of distortion is apparent with the internal and external
> sp230 when connected.
> This seems to have gradually happened,and is more noticable on strong
> signals S8 upwards.
> The bandswich is okay and the distortion in present on all bands and
> modes.
>
> Any ideas will be gratefully received.
>
> Kind regards Kev M3SND
>
>
> Messages in this topic
> <http://groups.yahoo.com/group/TS-520_820_530_830/message/19833;_ylc=X3oDMTM2dWY4ZWFhBF9
TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzE5ODMzBHNlYwNmdHIEc2xrA
3Z0cGMEc3RpbWUDMTIzMjkxMjAyNwR0cGNJZAMxOTgzMw-->
> (1)
> <http://groups.yahoo.com/group/TS-520_820_530_830/post;_ylc=X3oDMTJxNmVhNjBxBF9TAzk3MzU5
NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzE5ODMzBHNlYwNmdHIEc2xrA3JwbHkEc3
RpbWUDMTIzMjkxMjAyNw--?act=reply&messageNum=19833>

19836. Re: [TS-520_820_530_830] Re: Trio TS-520D vs. Kenwood TS-520(S?)...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-25 21:05:03 UTC
From: richard
Topic: 19816 Message: 19836

On Sun, 25 Jan 2009 17:12:33 -0000
"boat.anchor" <boat.anchor@...> wrote:

>
> I believe the Trio TS-520Dis thought to be a Japanese home market
> rig.
> Check and see if there is only one final tube in the rig.
> regards
> Barry
> CF7GEM
>
> --- In TS-520_820_530_830@yahoogroups.com, "ve3wej gmail"
> <ve3wej@...> wrote:
> >
> > what does the manual say (assuming you have one with it or found
> the pdf for it)....
> >
> >
> > VE3WEJ
> > Dave Garber
> >
> > 10-X # 23465
> > echolink # 52852
> > irlp node 2202
> > email ve3wej@...
> > ----- Original Message -----
> > From: Jason
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Sunday, January 25, 2009 2:10 AM
> > Subject: [TS-520_820_530_830] Trio TS-520D vs. Kenwood TS-520
> (S?)...
> >
> >
> >
> > Hello all,
> > I have a Trio TS-520D, and I was wondering what the differences
> between
> > this rig and the TS-520S might be. I searched the message
> archive, and
> > found that this was discussed in a thread back in 2006. That
> thread
> > concluded that the 520D was the Japanese version of the 520S.
> There
> > was a mention of the 520D having only a 75 watt final, but no
> follow-up

> > conversation regarding the actual output power.
> >
> > Very recently I purchased an AT-200 tuner. This represents the
> first
> > watt-meter of reasonable quality that I have been able to attach
> to
> > this rig. I don't seem to be able to tune the rig up beyond 70
> watts.
> >
> > So my question is this... Is the 520D limited by its final to 75
> watts
> > max, or is the lower power due to the rig's age or (very
> possibly)
> > operator's error? Is there someway for me to inspect the final
> and
> > determine the configuration?
> >
> > Thanks for reading...
> > Jason AE5KR
> >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
As far as I know, the name Kenwood was used by a company supplying
white goods in Europe in the 1970's onwards, it was in the late 80's
that the Trio name was dropped in favour of Kenwood, There was no
difference apart from the name.

--
Best wishes

Richard Bown

##
Registered Linux User 36561
OS: Ubuntu 8.10, Intrepid, on AMD Dual Athlon 64 +4400: 8 GB RAM DDR2
Ham Call: G8JVM , QRA IO82SP, Interests Microwave
##

19837. Re: Trio TS-520D vs. Kenwood TS-520(S?)...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-25 21:07:03 UTC
From: freddhardeng
Topic: 19816 Message: 19837

A35KR de NX3G/

HI Jason.

You should get familiar with K4EAA's web pages. There you will find a myriad of information about our hybrids to include some history. On this page, http://www.k4eaa.com/faq.htm you will find this paragraph:

One of my friends has a 520D. What the heck is THAT?

I think I have one of those also - Buried in my stash of Kenwood radios . . . The 520D was a non-export, Japanese market radio. Obviously, a number have made it to the U.S. over the years. The only caution here is to make sure it's wired for 120VAC operation, because the factory defaulted to 100VAC for use in Japan.

So there you have it Jason. You DO have it modified to accept 120v, right?

- Larry - NX3G

19838. Looking for dead 520 or 830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-26 04:42:43 UTC
From: Gordon
Topic: 19838 Message: 19838

I am looking for a winter project of a dead 530 or 830 for sale.
Anyone have one to sell?

Thanks,
Gordon
N6WK

19839. Cleaning Shack.....Covers from TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-26 05:07:17 UTC
From: Gordon
Topic: 19839 Message: 19839

I have the case covers from a TS-830S that are in good Physical
Condition (No Dents) but definitely need painting due to some rust.
I am asking $20.00 plus shipping for them. For $12.00 more, I will
include a can of Spray paint that is the Original Kenwood Color.

Thanks,
Gordon
N6WK

19840. Lamps.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-26 16:31:52 UTC
From: latetomemphis
Topic: 19840 Message: 19840

Hi, I want to put lamps in my VFO-520 and my AT-200 to light them up. I see in my Kenwood TS-820 repair manual that it calls for a "Kenwood Pilot Lamp" part nos# (B31-0241-05).

I haven't had my radio apart, but see in the manual that they are using two of these lamps on either side of the meter, and imagine that the proper way for me to do this would be to use two lamps on my other two meters as well.

1: Here is what I would like to know. What is the generic reference to these lamps, so that I don't have to get special parts (and so I can have them before anything comes apart)?

2: Has anyone done this, and is there anything I should look out for (can't imagine anything, but I'll ask just in case)?

3: And finally, I'm planning on connecting these auxilary lamps to the same lines as the lamps powering the meter in the radio, does anyone forsee a problem with this?

Thanks in advance!

Jeff KB3QMT

19841. 12by7 for TS-830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-26 16:52:30 UTC
From: archer5949
Topic: 19841 Message: 19841

Looking for 12by7 in Minnesota if possible. Otherwiwse who could I order from.

73,
KN0A

19842. Re: [TS-520_820_530_830] 12by7 for TS-830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-26 16:56:13 UTC
From: James
Topic: 19841 Message: 19842

Try R&L
Sent via BlackBerry from T-Mobile

-----Original Message-----
From: "archer5949" <kn0a@...>

Date: Mon, 26 Jan 2009 16:52:30
To: <TS-520_820_530_830@yahoogroups.com>
Subject: [TS-520_820_530_830] 12by7 for TS-830

Looking for 12by7 in Minnesota if possible. Otherwiwse who could I
order from.

73,
KN0A

[Non-text portions of this message have been removed]

19843. Re: [TS-520_820_530_830] 12by7 for TS-830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-26 17:32:09 UTC
From: george dumond
Topic: 19841 Message: 19843

You can order nos 12by7 from Ken Kemski k4eaa at K4EAA.com I think they are abt 12.00
    73 George k0gwd

--- On Mon, 1/26/09, archer5949 <kn0a@...> wrote:

From: archer5949 <kn0a@...>
Subject: [TS-520_820_530_830] 12by7 for TS-830
To: TS-520_820_530_830@yahoogroups.com
Date: Monday, January 26, 2009, 10:52 AM

Looking for 12by7 in Minnesota if possible. Otherwiwse who could I
order from.

73,
KN0A

[Non-text portions of this message have been removed]

19844. Re: [TS-520_820_530_830] 12by7 for TS-830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-26 19:35:10 UTC
From: Ron Pearson
Topic: 19841 Message: 19844

Try Ebay. I bought 4 nos 12BY7's for $9.00 Ron/W5RCP

100% CW, 100% of the Time
Fists#6259 & cc#1775, ARS#1799, FP#1047, NAQCC#483, SKCC#2922,
QRP-ARCI#13328, Houston QRP Club, HQRP Fists#11025, KCARC/Abilene, Zombie#839

From: archer5949 <kn0a@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, January 26, 2009 10:52:30 AM
Subject: [TS-520_820_530_830] 12by7 for TS-830

Looking for 12by7 in Minnesota if possible. Otherwiwse who could I
order from.

73,
KN0A

Yahoo! Groups Links

[Non-text portions of this message have been removed]

19845. How do you know the Voltage of Mica Caps??

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-26 20:39:59 UTC
From: Ron
Topic: 19845 Message: 19845

I'm in the process of changing some mica caps in my Tempo One. I have a box of assorted caps that may have what I need, but I don't know how to find what their voltage is?? I have a cap checker that will give me farad value, but nothing to show the voltage rating. I need three 100pF 1000V mica caps???
Thanks
Ron/W5RCP

19846. Re: [TS-520_820_530_830] Rx Audio Distortion

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-26 21:05:32 UTC
From: probe
Topic: 19833 Message: 19846

Some users have replaced the 1N60 diodes on the IF board (D20, D21, D22, D23) with Schottky diodes such as HP HSCH 1001 or 1N6263. This requires removal of the IF board. While there, you can also replace the corresponding TX diodes with the identical Schottkys to improve TX audio (D29, D30, D31, D32). There is a web site (google search) that details the procedure.
Steve B WZ7E

----- Original Message -----
From: m3snd
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, January 25, 2009 11:33 AM
Subject: [TS-520_820_530_830] Rx Audio Distortion

Hello group can anyone shed some light on the slight rx peak audio distortion i am experiencing on my Trio TS 830?
The sound of distortion is apparent with the internal and external sp230 when connected.
This seems to have gradually happened,and is more noticable on strong signals S8 upwards.
The bandswich is okay and the distortion in present on all bands and modes.

Any ideas will be gratefully received.

Kind regards Kev M3SND

[Non-text portions of this message have been removed]

19847. Re: Lamps.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-26 21:08:11 UTC
From: Michael
Topic: 19840 Message: 19847

If you use the newer "flashlight" type leds instead of lamps you will
get a longer life span. That is what I use whenever a lamp fails.

--- In TS-520_820_530_830@yahoogroups.com, "latetomemphis"
<latetomemphis@...> wrote:
>
> Hi, I want to put lamps in my VFO-520 and my AT-200 to light them
> up. I see in my Kenwood TS-820 repair manual that it calls for
> a "Kenwood Pilot Lamp" part nos# (B31-0241-05).
>
> I haven't had my radio apart, but see in the manual that they are
> using two of these lamps on either side of the meter, and imagine
> that the proper way for me to do this would be to use two lamps on my
> other two meters as well.
>
> 1: Here is what I would like to know. What is the generic reference
> to these lamps, so that I don't have to get special parts (and so I
> can have them before anything comes apart)?
>
> 2: Has anyone done this, and is there anything I should look out for
> (can't imagine anything, but I'll ask just in case)?
>
> 3: And finally, I'm planning on connecting these auxilary lamps to
> the same lines as the lamps powering the meter in the radio, does
> anyone forsee a problem with this?
>
> Thanks in advance!
>
> Jeff KB3QMT
>

19848. 6146B, 6146W, and the hybrids questions

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-26 21:52:03 UTC
From: Jeramy Ross
Topic: 19848 Message: 19848

Ok. I realize this has all been hashed out in the past in both the Kenwood hybrid circles and the wider glowbug world; however, after searching the web for info. over the past couple of months, I still have un-answered questions.

First question: 6146W tubes of post '65 vintage are generally supposed to be 6146B tubes that passed the vibration, shock, and fatigue spec. as required (vibration, shock, and fatigue spec. as specified in the 6146W data sheet from RCA). Given that, I find conflicting reports of the 'W' not being compatible, different brands better than the other etc. An example is RFparts web site listing one 6146W as great for all, and at the same time saying that the RCA 6146W that the offer is not recomended. Is it simply that the RCAs are of the vintage where they are actually 6146/6146As? Or is there some other reason. I see the RCA 'W' tubes everywhere for pretty reasonable prices, and it would be great to be able to use them in the hybrids.

Next question, Chinese 6146B? Seems there are more varied opinions on Chinese tubes than there are tubes coming out of China, but no clear direction on if these are of decent quallity, work well in hybrids, etc. Any experience with the various brands out there? Again, availible for reasonable prices and are in current production so it would be great to be able to use these in the hybrids, but I am leary due to the stories of not being able to keep them neutralized, their inability to handle the plate voltages that the hybrids throw at them and so on.

Thanks in advance for your words of wisdom,
Jeramy / W5XTL

Sent from my BlackBerry® wireless device from U.S. Cellular

19849. Re: [TS-520_820_530_830] Lamps.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-26 22:31:03 UTC
From: Lou Blasco
Topic: 19840 Message: 19849

Hi Jeff,

The VFO520 should have a pair of lamps installed already, they're probably blown. I've replaced the lamps in my TS520 and VFO520 with 12V 100mA lamps that have 6 inch wire leads on them. The Kenwood replacement lamps have 12 inch leads from memory. If you can only find the lamps with short leads you have to splice them in where convenient. I also added a 3 ohm 5 watt resistor in series with the lamps. This reduces the brightness just a little but I hope will increase their life significantly. I prefer the glow of a lamp to that of the LED's but you could also use LED's as suggested by others.

I don't think the extra load of the lamps in the AT200 (If you do install them) will have any effect on the radio.

Lou - VK3ALB

At 03:31 27/01/2009, you wrote:
>Hi, I want to put lamps in my VFO-520 and my AT-200 to light them
>up. I see in my Kenwood TS-820 repair manual that it calls for
>a "Kenwood Pilot Lamp" part nos# (B31-0241-05).
>
>I haven't had my radio apart, but see in the manual that they are
>using two of these lamps on either side of the meter, and imagine
>that the proper way for me to do this would be to use two lamps on my
>other two meters as well.
>
>1: Here is what I would like to know. What is the generic reference
>to these lamps, so that I don't have to get special parts (and so I
>can have them before anything comes apart)?
>
>2: Has anyone done this, and is there anything I should look out for
>(can't imagine anything, but I'll ask just in case)?
>
>3: And finally, I'm planning on connecting these auxilary lamps to
>the same lines as the lamps powering the meter in the radio, does
>anyone forsee a problem with this?
>
>Thanks in advance!
>
>Jeff KB3QMT

19850. Re: [TS-520_820_530_830] Lamps.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-26 22:52:25 UTC
From: Mike-K5VSE
Topic: 19840 Message: 19850

There is a fellow on eBay with a store that sells the replacement lamps with the leads already attached. He is the one selling the cables for the amp/ALC control for various hybrid rigs. Just do a search under the "HAM" category. I told a friend about it, and he bought one of the cables and is very happy with it. I've never bought anything, so can't personally verify any of his products.

73,
Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2009
"In God We Trust"

[Non-text portions of this message have been removed]

19851. RE: [TS-520_820_530_830] Lamps.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-27 00:14:02 UTC
From: Rick Klinge
Topic: 19840 Message: 19851

Ken also has some hard to find parts too.

http://www.k4eaa.com/parts.htm

hth,

Rick

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Mike-K5VSE
Sent: Monday, January 26, 2009 4:52 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Lamps.

There is a fellow on eBay with a store that sells the replacement lamps with

the leads already attached. He is the one selling the cables for the amp/ALC

control for various hybrid rigs. Just do a search under the "HAM" category.
I told a friend about it, and he bought one of the cables and is very happy
with it. I've never bought anything, so can't personally verify any of his
products.

73,
Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2009
"In God We Trust"

[Non-text portions of this message have been removed]

19852. RE: [TS-520_820_530_830] 6146B, 6146W, and the hybrids questions

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-27 00:28:43 UTC
From: Rick Klinge
Topic: 19848 Message: 19852

Jeramy,

From what I understand the 6146W tubes of that era are the same as the 6146 and 6146A while the 6146B has about 25% more dissipation. The S2001A, I think, is the same as the Japanese/Matsusita 6146B.

I recently removed my S2001A's and put in a matched pair of 6146W's from RFParts and they neutralized just fine. I think it's worth mentioning that, any tube you choose, shouldn't be supplied with more than 800v.

Rick

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jeramy Ross
Sent: Monday, January 26, 2009 3:52 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] 6146B, 6146W, and the hybrids questions

Ok. I realize this has all been hashed out in the past in both the Kenwood hybrid circles and the wider glowbug world; however, after searching the web for info. over the past couple of months, I still have un-answered questions.

First question: 6146W tubes of post '65 vintage are generally supposed to be 6146B tubes that passed the vibration, shock, and fatigue spec. as required (vibration, shock, and fatigue spec. as specified in the 6146W data sheet from RCA). Given that, I find conflicting reports of the 'W' not being compatible, different brands better than the other etc. An example is RFparts web site listing one 6146W as great for all, and at the same time saying that the RCA 6146W that the offer is not recomended. Is it simply that the RCAs are of the vintage where they are actually 6146/6146As? Or is there some other reason. I see the RCA 'W' tubes everywhere for pretty reasonable prices, and it would be great to be able to use them in the hybrids.

Next question, Chinese 6146B? Seems there are more varied opinions on Chinese tubes than there are tubes coming out of China, but no clear direction on if these are of decent quallity, work well in hybrids, etc. Any experience with the various brands out there? Again, availible for reasonable prices and are in current production so it would be great to be able to use these in the hybrids, but I am leary due to the stories of not being able to keep them neutralized, their inability to handle the plate voltages that the hybrids throw at them and so on.

Thanks in advance for your words of wisdom,
Jeramy / W5XTL

19853. TS 830 No output on SSB transmit HELP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-27 04:59:58 UTC
From: TIM RIERDEN
Topic: 19853 Message: 19853

Hi: I'm a new general and have a curious problem. The TS 830 tunes up perfectly, and shows full power on CW. When placed on SSB upper or lower, there is no output. I've listened to the monitor, nothing. I've checked it with two meters beside the one on the radio, zilch. What should I do?

Tim W7TSR

19854. Re: [TS-520_820_530_830] TS 830 No output on SSB transmit HELP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-27 05:25:22 UTC
From: N6WK
Topic: 19853 Message: 19854

Bad or mis-wired microphone perhaps?
Mic Gain too low?

Gordon
N6WK

TIM RIERDEN wrote:
>
> Hi: I'm a new general and have a curious problem. The TS 830 tunes up
> perfectly, and shows full power on CW. When placed on SSB upper or
> lower, there is no output. I've listened to the monitor, nothing. I've
> checked it with two meters beside the one on the radio, zilch. What
> should I do?
>
> Tim W7TSR
>
>
>
> <http://groups.yahoo.com/group/TS-520_820_530_830/message/19853;_ylc=X3oDMTM2YjY5MTVpBF9
TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzE5ODUzBHNlYwNmdHIEc2xrA
3Z0cGMEc3RpbWUDMTIzMzAzMzY2MQR0cGNJZAMxOTg1Mw-->

19855. Re: [TS-520_820_530_830] TS 830 No output on SSB transmit HELP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-27 09:12:55 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 19853 Message: 19855

On Tue, 2009-01-27 at 04:59 +0000, TIM RIERDEN wrote:
> Hi: I'm a new general and have a curious problem. The TS 830 tunes up
> perfectly, and shows full power on CW. When placed on SSB upper or
> lower, there is no output. I've listened to the monitor, nothing. I've
> checked it with two meters beside the one on the radio, zilch. What
> should I do?

With the mike gain up a bit, you should see some movement on the RF meter when you talk into the mike. With it all the way up, it should show some ALC. I found that with my Kenwood TH-F7E actually tuned to the TX output and sitting right on top of my TS520 with no output valves (which is how I got it) I could barely pick up anything from it. It's surprisingly well-screened! If it's not showing at least a watt or two of output, you won't hear it.

It's possible that the mike is broken or wired wrongly. With the set transmitting into a dummy load, buzz the mike input pin on the front panel connector with your finger and see if the meter moves.

Gordon

19856. Kenwood TS-140S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-27 16:14:30 UTC
From: Don Thomas
Topic: 19856 Message: 19856

Having problem with RF output decreasing on 10 and 12 meters. Higher the frequency, the lower it drops. On 10 meters its bout 10 watts. Have isolated the problem to Q81 and associated components on the Signal Unit. Appears like some of the components are on the bottom side of the PCB as I don't see them on the top side. Does anyone have a Signal Unit board laying around that can take a good picture of the bottom side in the area of Q81? Q81 is located in rear near the notch out on the corner. Would like to know what it looks like before pulling mine apart. Looks like electrolic capacitor C295 was touched on side with soldering iron in the past and Q81 has been replaced with a different transistor that has bout the same specs. Wondering bout R264 and C294 values as their also not on top of the board. They are in the feedback loop on Q81 collector to base. Thanks....

Don T. // K5ZRQ

19857. Re: 12by7 for TS-830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-27 16:36:52 UTC
From: james27613
Topic: 19841 Message: 19857

Hi,

12BY7A driver and 6146W finals new old stock
JAN GE Brand USA made at surplus sales of nebraska
plus other tube specials

http://www.surplussales.com/tubes-sock-acc/TubeSpecials.html

be sure to save your old driver tube, it may work fine
in another radio unless is has failed.

73 james ke4drn

19858. Re: 6146B, 6146W, and the hybrids questions

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-27 18:14:34 UTC
From: Brian Hall
Topic: 19848 Message: 19858

The 6146W is the military "ruggedized" version of the 6146A/B. Early versions matched the 6146A spec, and later versions (post 1965) were manufactured to the newer 6146B specs. As it relates to these rigs, the two types are NOT interchangeable. Use 6146B or post-65 6146Ws only. I've never used the Chinese tubes, so I can't comment on them, but I've never seen a price advantage that would make me want to use them over 6146W's

I've re-tubed 7 hybrid rigs so-far (I restore them for newly licensed hams needing their first HF rig). I've always used 6146W's with a post-65 mfr date.

I use JAN (which stands for Joint Army/Navy BTW) 6146W tubes made by GE. There are a couple vendors on eBay that sell them. They come in a plain white box with the mfr date on the box.

FWIW-I have three hybrid rigs of my own (520S, 820S, and 830S). Two of them still have full-output from their original S2001 Matsushita tubes. The other I bought used about 10 yrs ago, re-tubed it with 6146W's and they're still going strong. I don't understand why so many of these rigs I've seen suffer from low output...I can only assume that the previous operator was not properly tuning his rig. I have replaced the driver 12BY7A several times on each of these rigs however.

73,
Brian AC7NA

19859. Re: [TS-520_820_530_830] Re: 6146B, 6146W, and the hybrids questions

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-27 19:22:26 UTC
From: w9oj@iquest.net
Topic: 19848 Message: 19859

http://www.members.tripod.com/NRWILLIAMSON/t6146.txt

http://k9sth.com/uploads/The_6146_Family_of_Tubes_1.pdf

73 de Mike W9OJ

19860. Re: 6146B, 6146W, and the hybrids questions

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-27 20:17:41 UTC
From: w5rkl
Topic: 19848 Message: 19860

Yep, that's true of all finals with 6146s. There have been some instances, as Glen Zook's documents state, where 6146B have worked in final designed around 6146 or 6146A but those are rare.

Just because the final produces good output on 80, 40, and 20 meters is not an indication the 6146B is working "properly" in the final stage.

All too often hams simply pull the old aging 6146s out and plug new 6146Bs without checking the final amplifier's neutralization. This is poor operating practice and can lead to problems that could have been easily prevented by taking the time to check the final amplifier's neutralization and, if necessary, adjust the final's neutralization.

Just because a final designed around the 6146 or 6146A produces high output power is not an indication the 6146Bs are operating properly. A properly neutralized final, if everything else is working properly, will produce full output at the same point that maximum plate current "dip" occurs. If de-tuning the PLATE control either side or resonance causes the final amplifier's output to increase 30 watts or more the final needs to be neutralized. Failure to neutralize the finals can lead to not only the problem Glen mentions in his document but higher tube envelope heat due to increased plate current when tuned for maximum output instead of maximum plate current "dip". This results in shortened tube life and added stress on the power supply components as well.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "" <w9oj@...> wrote:
>
> http://www.members.tripod.com/NRWILLIAMSON/t6146.txt
>
> http://k9sth.com/uploads/The_6146_Family_of_Tubes_1.pdf
>
>
> 73 de Mike W9OJ
>

19861. Re: [TS-520_820_530_830] TS 830 No output on SSB transmit HELP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-27 21:21:24 UTC
From: ve3wej gmail
Topic: 19853 Message: 19861

you will have no output, unless you talk into it.. carrier is supressed.... on sideband...

VE3WEJ
Dave Garber

10-X # 23465
echolink # 52852
irlp node 2202
email ve3wej@...
----- Original Message -----
From: TIM RIERDEN
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, January 26, 2009 11:59 PM
Subject: [TS-520_820_530_830] TS 830 No output on SSB transmit HELP

Hi: I'm a new general and have a curious problem. The TS 830 tunes up perfectly, and shows full power on CW. When placed on SSB upper or lower, there is no output. I've listened to the monitor, nothing. I've checked it with two meters beside the one on the radio, zilch. What should I do?

Tim W7TSR

[Non-text portions of this message have been removed]

19862. RE: [TS-520_820_530_830] TS 830 No output on SSB transmit HELP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-28 02:50:22 UTC
From: Kevin King
Topic: 19853 Message: 19862

Turn the microphone "on" if using the sm50 or 60. :) kind of like the sg switch. Or the mike gain is not turned up. Or the mike you have is not properly wired.

-Kevin

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of TIM RIERDEN
Sent: Tuesday, January 27, 2009 12:00 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS 830 No output on SSB transmit HELP

Hi: I'm a new general and have a curious problem. The TS 830 tunes up perfectly, and shows full power on CW. When placed on SSB upper or lower, there is no output. I've listened to the monitor, nothing. I've checked it with two meters beside the one on the radio, zilch. What should I do?

Tim W7TSR

Yahoo! Groups Links

19863. Re: [TS-520_820_530_830] TS 830 No output on SSB transmit HELP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-28 03:05:52 UTC
From: N6WK
Topic: 19853 Message: 19863

I just remembered a known Issue.
Sometimes the Processor switch gets dirty and since all Audio goes
through that switch, it will NOT allow any Audio to pass.
Try switching the Processor switch in and out a few times and then see
what happens.

73,
Gordon

Kevin King wrote:
>
> Turn the microphone "on" if using the sm50 or 60. :) kind of like the sg
> switch. Or the mike gain is not turned up. Or the mike you have is not
> properly wired.
>
> -Kevin
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> [mailto:TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of TIM RIERDEN
> Sent: Tuesday, January 27, 2009 12:00 AM
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Subject: [TS-520_820_530_830] TS 830 No output on SSB transmit HELP
>
> Hi: I'm a new general and have a curious problem. The TS 830 tunes up
> perfectly, and shows full power on CW. When placed on SSB upper or
> lower, there is no output. I've listened to the monitor, nothing. I've
> checked it with two meters beside the one on the radio, zilch. What
> should I do?
>
> Tim W7TSR
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>

19864. Re: TS 830 No output on SSB transmit HELP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-28 04:50:53 UTC
From: TIM RIERDEN
Topic: 19853 Message: 19864

--- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@...> wrote:
You know it would be something simple like that. I will try it right away and let you know. I did re-soldier the the original mic plug at the radio. Just to be certain I picked up another MC 50 on eBay, still nothing.

Thanx, 73 Tim, W7TSR

>
> I just remembered a known Issue.
> Sometimes the Processor switch gets dirty and since all Audio goes
> through that switch, it will NOT allow any Audio to pass.
> Try switching the Processor switch in and out a few times and then see
> what happens.
>
> 73,
> Gordon
>
>
> Kevin King wrote:
> >
> > Turn the microphone "on" if using the sm50 or 60. :) kind of like the sg
> > switch. Or the mike gain is not turned up. Or the mike you have is not
> > properly wired.
> >
> > -Kevin
> >
> > -----Original Message-----
> > From: TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>
> > [mailto:TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of TIM RIERDEN
> > Sent: Tuesday, January 27, 2009 12:00 AM
> > To: TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>
> > Subject: [TS-520_820_530_830] TS 830 No output on SSB transmit HELP
> >
> > Hi: I'm a new general and have a curious problem. The TS 830 tunes up
> > perfectly, and shows full power on CW. When placed on SSB upper or

> > lower, there is no output. I've listened to the monitor, nothing.
I've
> > checked it with two meters beside the one on the radio, zilch.
What
> > should I do?
> >
> > Tim W7TSR
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
>

19865. Re: TS 830 No output on SSB transmit HELP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-28 04:53:50 UTC
From: TIM RIERDEN
Topic: 19853 Message: 19865

```
--- In TS-520_820_530_830@yahoogroups.com, "ve3wej gmail"
Thanx, I'm new, but not that new ;^) No output with audio signal,
sometimes loud, cursing audio signal, being applied to mic.

73 Tim, W7TSR

<ve3wej@...> wrote:
>
> you will have no output, unless you talk into it.. carrier is
supressed.... on sideband...
>
>
> VE3WEJ
> Dave Garber
>
> 10-X # 23465
> echolink # 52852
> irlp node 2202
> email ve3wej@...
> ----- Original Message -----
> From: TIM RIERDEN
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, January 26, 2009 11:59 PM
> Subject: [TS-520_820_530_830] TS 830 No output on SSB transmit
HELP
>
>
> Hi: I'm a new general and have a curious problem. The TS 830
tunes up
> perfectly, and shows full power on CW. When placed on SSB upper
or
> lower, there is no output. I've listened to the monitor, nothing.
I've
> checked it with two meters beside the one on the radio, zilch.
What
> should I do?
>
> Tim W7TSR
>
>
>
>
>
> [Non-text portions of this message have been removed]
>
```

19866. Re: TS 830 No output on SSB transmit HELP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-28 04:56:05 UTC
From: TIM RIERDEN
Topic: 19853 Message: 19866

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce MM3YEQ

Good advice I'll try it tomorrow and let you know.

Thanx, 73 Tim, W7tsr

<gordon@...> wrote:
>
> On Tue, 2009-01-27 at 04:59 +0000, TIM RIERDEN wrote:
> > Hi: I'm a new general and have a curious problem. The TS 830
tunes up
> > perfectly, and shows full power on CW. When placed on SSB upper
or
> > lower, there is no output. I've listened to the monitor, nothing.
I've
> > checked it with two meters beside the one on the radio, zilch.
What
> > should I do?
>
> With the mike gain up a bit, you should see some movement on the RF
> meter when you talk into the mike. With it all the way up, it
should
> show some ALC. I found that with my Kenwood TH-F7E actually tuned
to
> the TX output and sitting right on top of my TS520 with no output
valves
> (which is how I got it) I could barely pick up anything from it.
It's
> surprisingly well-screened! If it's not showing at least a watt or
two
> of output, you won't hear it.
>
> It's possible that the mike is broken or wired wrongly. With the
set
> transmitting into a dummy load, buzz the mike input pin on the front
> panel connector with your finger and see if the meter moves.
>
> Gordon
>

19867. Re: TS 830 No output on SSB transmit HELP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-28 04:58:16 UTC
From: TIM RIERDEN
Topic: 19853 Message: 19867

--- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@...> wrote:
>

Re-connected the mic plug and tried all conceivable settings with
gain. Also tried a different MC50 just to be sure.

Thanx, 73, Tim W7TSR

> Bad or mis-wired microphone perhaps?
> Mic Gain too low?
>
> Gordon
> N6WK
>
>
>
> TIM RIERDEN wrote:
> >
> > Hi: I'm a new general and have a curious problem. The TS 830
tunes up
> > perfectly, and shows full power on CW. When placed on SSB upper or
> > lower, there is no output. I've listened to the monitor, nothing.
I've
> > checked it with two meters beside the one on the radio, zilch.
What
> > should I do?
> >
> > Tim W7TSR
> >
> >
> >
> > <http://groups.yahoo.com/group/TS-
520_820_530_830/message/19853;_ylc=X3oDMTM2YjY5MTVpBF9TAzk3MzU5NzE0BGd
ycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzE5ODUzBHNlYwNmdHIEc
2xrA3Z0cGMEc3RpbWUDMTIzMzAzMzY2MQR0cGNJZAMxOTg1Mw-->
>

19868. Re: TS 830 No output on SSB transmit HELP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-28 05:11:28 UTC
From: TIM RIERDEN
Topic: 19853 Message: 19868

--- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@...> wrote:
>

Tried playing with the PROC button with great anticipation. Rats! No good. My next move is to open it up and take look see. Any ideas on things I should be looking for?

Tim, W7TSR

> I just remembered a known Issue.
> Sometimes the Processor switch gets dirty and since all Audio goes
> through that switch, it will NOT allow any Audio to pass.
> Try switching the Processor switch in and out a few times and then see
> what happens.
>
> 73,
> Gordon
>
>
> Kevin King wrote:
> >
> > Turn the microphone "on" if using the sm50 or 60. :) kind of like the sg
> > switch. Or the mike gain is not turned up. Or the mike you have is not
> > properly wired.
> >
> > -Kevin
> >
> > -----Original Message-----
> > From: TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>
> > [mailto:TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of TIM RIERDEN
> > Sent: Tuesday, January 27, 2009 12:00 AM
> > To: TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>
> > Subject: [TS-520_820_530_830] TS 830 No output on SSB transmit HELP
> >
> > Hi: I'm a new general and have a curious problem. The TS 830 tunes up
> > perfectly, and shows full power on CW. When placed on SSB upper or
> > lower, there is no output. I've listened to the monitor, nothing.

I've
> > checked it with two meters beside the one on the radio, zilch.
What
> > should I do?
> >
> > Tim W7TSR
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
>

19869. RE: [TS-520_820_530_830] Re: TS 830 No output on SSB transmit HELP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-28 05:33:42 UTC
From: Aaron Lamb
Topic: 19853 Message: 19869

You know if it's a MC50 try unplugging the 5 pin plugs coming out of the mic and the base and flip them over. I would check the one on the base first, they are not keyed plugs so you can easy plug them in upside down. I am assuming that this mic hasn't been confirmed that it worked before this post?

Aaron

KD4GSL

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of TIM RIERDEN
Sent: Tuesday, January 27, 2009 11:58 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS 830 No output on SSB transmit HELP

--- In TS-520_820_530_830@yahoogroups.com <mailto:TS-520_820_530_830%40yahoogroups.com> , N6WK <n6wk@...> wrote:
>

Re-connected the mic plug and tried all conceivable settings with gain. Also tried a different MC50 just to be sure.

Thanx, 73, Tim W7TSR

> Bad or mis-wired microphone perhaps?
> Mic Gain too low?
>
> Gordon
> N6WK
>
>
>
> TIM RIERDEN wrote:
> >
> > Hi: I'm a new general and have a curious problem. The TS 830 tunes up
> > perfectly, and shows full power on CW. When placed on SSB upper or
> > lower, there is no output. I've listened to the monitor, nothing. I've
> > checked it with two meters beside the one on the radio, zilch. What
> > should I do?
> >
> > Tim W7TSR

> >
> >
> >
> > <http://groups.yahoo.com/group/TS-520_820_530_830/message/19853;_ylc=X3oDMTM2YjY5MTVpBF9TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzE5ODUzBHNlYwNmdHIEc2xrA3Z0cGMEc3RpbWUDMTIzMzAzMzY2MQR0cGNJZAMxOTg1Mw-->
>

[Non-text portions of this message have been removed]

19870. Re: [TS-520_820_530_830] Re: TS 830 No output on SSB transmit HELP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-28 06:34:57 UTC
From: martin
Topic: 19853 Message: 19870

Hi Guys. There is a dot on the base jack and a dot on plug. On the base, they should be aligned. The plug on the mic is reversible to select high or low impudence. Make sure the micas are wired correctly.

TTYL

Aaron Lamb wrote:
> You know if it's a MC50 try unplugging the 5 pin plugs coming out of the mic
> and the base and flip them over. I would check the one on the base first,
> they are not keyed plugs so you can easy plug them in upside down. I am
> assuming that this mic hasn't been confirmed that it worked before this
> post?
>
>
>
> Aaron
>
> KD4GSL
>
>
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of TIM RIERDEN
> Sent: Tuesday, January 27, 2009 11:58 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: TS 830 No output on SSB transmit HELP
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com> , N6WK <n6wk@...> wrote:
>
> Re-connected the mic plug and tried all conceivable settings with
> gain. Also tried a different MC50 just to be sure.
>
> Thanx, 73, Tim W7TSR
>
>> Bad or mis-wired microphone perhaps?
>> Mic Gain too low?
>>
>> Gordon
>> N6WK
>>
>>

>>
>> TIM RIERDEN wrote:
>>> Hi: I'm a new general and have a curious problem. The TS 830
> tunes up
>>> perfectly, and shows full power on CW. When placed on SSB upper or
>>> lower, there is no output. I've listened to the monitor, nothing.
> I've
>>> checked it with two meters beside the one on the radio, zilch.
> What
>>> should I do?
>>>
>>> Tim W7TSR
>>>
>>>
>>>
>>> <http://groups.yahoo.com/group/TS-
> 520_820_530_830/message/19853;_ylc=X3oDMTM2YjY5MTVpBF9TAzk3MzU5NzE0BGd
> ycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzE5ODUzBHNlYwNmdHIEc
> 2xrA3Z0cGMEc3RpbWUDMTIzMzAzMzY2MQR0cGNJZAMxOTg1Mw-->
>
>
>
>
>
> [Non-text portions of this message have been removed]
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to: www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at
http://www.defectivebydesign.org/what_is_drm"

19871. Re: [TS-520_820_530_830] Re: TS 830 No output on SSB transmit HELP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-28 07:51:46 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 19853 Message: 19871

On Wed, 2009-01-28 at 00:34 -0600, martin wrote:

> select high or low impudence.

"Impedance", unless the MC-50 does really clever stuff that the MC-10 doesnt ;-)

Gordon

19872. Re: [TS-520_820_530_830] Re: TS 830 No output on SSB transmit HELP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-28 08:14:22 UTC
From: richard.bown@blueyonder.co.uk
Topic: 19853 Message: 19872

Gordon JC Pearce MM3YEQ wrote:
>
>
> On Wed, 2009-01-28 at 00:34 -0600, martin wrote:
>
> > select high or low impudence.
>
> "Impedance", unless the MC-50 does really clever stuff that the MC-10
> doesnt ;-)
>
> Gordon
>
>
OH dear, the novice spouts again.

If you have a high impedance microphone and the terminating load
impedance is low, you will have a reduced output level, it will also
have some effect on the frequency responce.
You can use a low impedance microphone into a high impedance terminated
load. There will again be some effect omn the frequency response due to
the mismatch.

--
Best wishes

Richard Bown

##
Registered Linux User 36561
OS: Ubuntu 8.10, Intrepid, on AMD Dual Athlon 64 +4400: 8 GB RAM DDR2
Ham Call: G8JVM , QRA IO82SP, Interests Microwave
##

19873. Re: [TS-520_820_530_830] Re: TS 830 No output on SSB transmit HELP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-28 09:46:22 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 19853 Message: 19873

On Wed, 2009-01-28 at 08:14 +0000, richard.bown@... wrote:
> Gordon JC Pearce MM3YEQ wrote:
> >
> >
> > On Wed, 2009-01-28 at 00:34 -0600, martin wrote:
> >
> > > > select high or low impudence.
> >
> > "Impedance", unless the MC-50 does really clever stuff that the MC-10
> > doesnt ;-)
> >
> > Gordon
> >
> >
> OH dear, the novice spouts again.

Ah, you're one of the 2m CBers that keys up over MM3 callsigns?

> If you have a high impedance microphone and the terminating load
> impedance is low, you will have a reduced output level, it will also
> have some effect on the frequency responce.
> You can use a low impedance microphone into a high impedance terminated
> load. There will again be some effect omn the frequency response due to
> the mismatch.

Yes. I should maybe point out that 25 years of designing radio and
audio equipment has given me a little bit of insight into the importance
of impedance.

Now, read the message I quoted again:

> > > select high or low impudence.

Did you read that?

Read it again, carefully - I can see your reading comprehension skills
clearly aren't the best - did you get it yet? No? Oh well.

In future, I suggest you have a long, careful read of posts before you
start talking.

Gordon

19874. Re: [TS-520_820_530_830] Re: TS 830 No output on SSB transmit HELP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-28 10:14:11 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 19853 Message: 19874

On Wed, 2009-01-28 at 05:11 +0000, TIM RIERDEN wrote:
> --- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@...> wrote:
> >
>
> Tried playing with the PROC button with great anticipation. Rats! No
> good. My next move is to open it up and take look see. Any ideas on
> things I should be looking for?

Depends what kind of test equipment you have available. If you've got a 'scope or a signal tracer, see if you can find your audio at pin 13 IF4 on the IF board. Does it reappear at TP2 on the IF board? If it doesn't, then something is amiss in the audio amp. You can grab the circuit diagrams off the 'net, if you don't already have them.

If the audio signal isn't present at TP2, check if it's present at the mike gain pot. The service manual has got a "level diagram", where the stages are represented with a symbolic rather than schematic diagram with all the voltages and signal levels marked on it. This may give you an idea of where to start looking closely.

It's worth noting that there are various muting and AGC signals present on the mode switch (well, otherwise how would it switch mode?). On my TS-520, crackly rough CW turned out to be a manky contact on one of the wafers. Even touching the knob brought it up, briefly. Hosing both the band switch and mode switch with contact cleaner and then applying a small amount of contact lubricant has solved that problem.

Gordon

19875. Re: Rx Audio Distortion

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-28 10:53:52 UTC
From: w5rkl
Topic: 19833 Message: 19875

Check the "AGC" switch setting. If it is turned "OFF" then any strong signal will sound distorted.

Unless one is sure one or more of the diodes have failed, I do not recommend changing the diodes.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "probe" <probeusr@...> wrote:
>
> Some users have replaced the 1N60 diodes on the IF board (D20, D21, D22, D23) with Schottky diodes such as HP HSCH 1001 or 1N6263. This requires removal of the IF board. While there, you can also replace the corresponding TX diodes with the identical Schottkys to improve TX audio (D29, D30, D31, D32). There is a web site (google search) that details the procedure.
> Steve B WZ7E
>
> ----- Original Message -----
> From: m3snd
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, January 25, 2009 11:33 AM
> Subject: [TS-520_820_530_830] Rx Audio Distortion
>
>
> Hello group can anyone shed some light on the slight rx peak audio
> distortion i am experiencing on my Trio TS 830?
> The sound of distortion is apparent with the internal and external
> sp230 when connected.
> This seems to have gradually happened,and is more noticable on strong
> signals S8 upwards.
> The bandswich is okay and the distortion in present on all bands and
> modes.
>
> Any ideas will be gratefully received.
>
> Kind regards Kev M3SND
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

19876. Re: [TS-520_820_530_830] Re: TS 830 No output on SSB transmit HELP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-28 12:36:12 UTC
From: richard.bown@blueyonder.co.uk
Topic: 19853 Message: 19876

Gordon JC Pearce MM3YEQ wrote:
>
>
> On Wed, 2009-01-28 at 08:14 +0000, richard.bown@...
> <mailto:richard.bown%40blueyonder.co.uk> wrote:
> > Gordon JC Pearce MM3YEQ wrote:
> > >
> > >
> > > On Wed, 2009-01-28 at 00:34 -0600, martin wrote:
> > >
> > > > select high or low impudence.
> > >
> > > "Impedance", unless the MC-50 does really clever stuff that the MC-10
> > > doesnt ;-)
> > >
> > > Gordon
> > >
> > >
> > OH dear, the novice spouts again.
>
> Ah, you're one of the 2m CBers that keys up over MM3 callsigns?
>
> > If you have a high impedance microphone and the terminating load
> > impedance is low, you will have a reduced output level, it will also
> > have some effect on the frequency responce.
> > You can use a low impedance microphone into a high impedance terminated
> > load. There will again be some effect omn the frequency response due to
> > the mismatch.
>
> Yes. I should maybe point out that 25 years of designing radio and
> audio equipment has given me a little bit of insight into the importance
> of impedance.
>
> Now, read the message I quoted again:
>
> > > > select high or low impudence.
>
> Did you read that?
>
> Read it again, carefully - I can see your reading comprehension skills
> clearly aren't the best - did you get it yet? No? Oh well.
>
> In future, I suggest you have a long, careful read of posts before you
> start talking.

>
> Gordon
>

Typical of a Novice callsign, got off the back of a packet of cornflakes.
If you want to start a flame war , take it off list.
It not the first time youhave started a flame war on other lists.

--
Best wishes

Richard Bown

##
Registered Linux User 36561
OS: Ubuntu 8.10, Intrepid, on AMD Dual Athlon 64 +4400: 8 GB RAM DDR2
Ham Call: G8JVM , QRA IO82SP, Interests Microwave
##

19877. Re: [TS-520_820_530_830] Re: TS 830 No output on SSB transmit HELP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-28 12:44:54 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 19853 Message: 19877

On Wed, 2009-01-28 at 12:36 +0000, richard.bown@... wrote:

>
> Typical of a Novice callsign, got off the back of a packet of cornflakes.
> If you want to start a flame war , take it off list.
> It not the first time youhave started a flame war on other lists.

I'm sure you can back that up with some evidence.

Gordon JC Pearce

19878. Re: TS 830 No output on SSB transmit HELP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-28 13:06:35 UTC
From: w5rkl
Topic: 19853 Message: 19878

If you two gentlemen must bicker/argue amongst one another please do
it privately off forum. Thank you.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce MM3YEQ
<gordon@...> wrote:
>
> On Wed, 2009-01-28 at 12:36 +0000, richard.bown@... wrote:
>
> >
> > Typical of a Novice callsign, got off the back of a packet of
cornflakes.
> > If you want to start a flame war , take it off list.
> > It not the first time youhave started a flame war on other lists.
>
> I'm sure you can back that up with some evidence.
>
> Gordon JC Pearce
>

19879. Re: [TS-520_820_530_830] Re: TS 830 No output on SSB transmit HELP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-28 13:09:06 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 19853 Message: 19879

On Wed, 2009-01-28 at 13:06 +0000, w5rkl wrote:
> If you two gentlemen must bicker/argue amongst one another please do
> it privately off forum. Thank you.

I'd actually rather drop it, but every time I post then G8JVM (hang on, isn't G8 a B-class licence? I can't remember now) makes some disparaging remark.

What a great way to encourage people into the hobby.

Richard, please feel free to discuss it privately in a civilised manner with me, or if you like I can pop over and we can chat about it over a pint.

Gordon

19880. Re: [TS-520_820_530_830] Re: TS 830 No output on SSB transmit HELP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-28 15:51:04 UTC
From: martin
Topic: 19853 Message: 19880

Hi Gordon. Just my bad typing!;^)). If Mr brown is referring to me as
a novice, I invite him to look up my callsign. I am an Extra who has
not bothered to change my callsign and have been licensed since 1990.

While I am not as knowledgeable as some of the folks here, all it takes
is to read the MC-50 manual, which is available on the net in PDF format.

TTYL Gordon.

Gordon JC Pearce MM3YEQ wrote:
> On Wed, 2009-01-28 at 00:34 -0600, martin wrote:
>
>> select high or low impudence.
>
> "Impedance", unless the MC-50 does really clever stuff that the MC-10
> doesnt ;-)
>
> Gordon
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to: www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at
http://www.defectivebydesign.org/what_is_drm"

19881. Re: [TS-520_820_530_830] Re: TS 830 No output on SSB transmit HELP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-28 16:21:27 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 19853 Message: 19881

On Wed, 2009-01-28 at 09:51 -0600, martin wrote:
> Hi Gordon. Just my bad typing!;^)). If Mr brown is referring to me as
> a novice, I invite him to look up my callsign. I am an Extra who has
> not bothered to change my callsign and have been licensed since 1990.
>
> While I am not as knowledgeable as some of the folks here, all it takes
> is to read the MC-50 manual, which is available on the net in PDF format.

I think he's referring to me, actually. "MM3" denotes a Foundation licence in Scotland. Since the Foundation licence is pretty trivially easy to pass, some people equate that with youth and inexperience. I really find it quite hard to care about other people's opinions. I know my way around the inside and outside of my TS-520, and it gets used every day. I wonder how many others on the list can say that?

Yes, I *have* only had my licence for about four-and-a-half months, but in that time I have used my TS-520 on 80m, 40m and 20m, with SSB, PSK and RTTY contacts on all three bands, SSTV on 20, Feldhell on 40 and probably one or two others (I haven't got my logbook handy to check). I wonder how many G8s have experimented with as many different modes?

I've pretty much stopped using VHF, because of the "repeater CBers" that start up with all the F---s and C---s when they hear an MM3/MM6 (and in some cases 2M0/2M1) callsign. People who ought to know better! We don't have a lot of that at the moment, mostly because the worst offenders have been slapped by the mighty hand of Ofcom. Still, it's a shame they feel the need to do that.

This is all off-topic for the list, anyway. Below, it's a bit more on-topic ;-)

> TTYL Gordon.
>
> Gordon JC Pearce MM3YEQ wrote:
> > On Wed, 2009-01-28 at 00:34 -0600, martin wrote:
> >
> >> select high or low impudence.
> >
> > "Impedance", unless the MC-50 does really clever stuff that the MC-10
> > doesnt ;-)

This bit was a kind of a joke, you see. The original poster typoed it as "impudence", and I found the idea of an "impudence selector" utterly hilarious. Evidently this passed some of the more humourless members of the list by.

Gordon

19882. Re: [TS-520_820_530_830] Re: TS 830 No output on SSB transmit HELP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-28 17:36:41 UTC
From: N6WK
Topic: 19853 Message: 19882

Guys,
Please keep it nice.
We are all here to help each other.
Thanks,
Gordon
N6WK
Moderator

Gordon JC Pearce MM3YEQ wrote:
>
> On Wed, 2009-01-28 at 08:14 +0000, richard.bown@...
> <mailto:richard.bown%40blueyonder.co.uk> wrote:
> > Gordon JC Pearce MM3YEQ wrote:
> > >
> > >
> > > On Wed, 2009-01-28 at 00:34 -0600, martin wrote:
> > >
> > > > select high or low impudence.
> > >
> > > "Impedance", unless the MC-50 does really clever stuff that the MC-10
> > > doesnt ;-)
> > >
> > > Gordon
> > >
> > >
> > OH dear, the novice spouts again.
>
> Ah, you're one of the 2m CBers that keys up over MM3 callsigns?
>
> > If you have a high impedance microphone and the terminating load
> > impedance is low, you will have a reduced output level, it will also
> > have some effect on the frequency responce.
> > You can use a low impedance microphone into a high impedance terminated
> > load. There will again be some effect omn the frequency response due to
> > the mismatch.
>
> Yes. I should maybe point out that 25 years of designing radio and
> audio equipment has given me a little bit of insight into the importance
> of impedance.
>
> Now, read the message I quoted again:
>
> > > > select high or low impudence.
>

> Did you read that?
>
> Read it again, carefully - I can see your reading comprehension skills
> clearly aren't the best - did you get it yet? No? Oh well.
>
> In future, I suggest you have a long, careful read of posts before you
> start talking.
>
> Gordon
>
>

19883. TS 830 impedance

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-28 19:08:54 UTC
From: peglegkd5gyg
Topic: 19853 Message: 19883

now yall have peaked my interest and i have a question about the mc-50.

what is the difference between low and high impedamce?

what effect will this have using either or?

was not aware you can change it on mc-50?

manual i looked at on line did not say much, could some one explain
further?

73
kd5gyg

> >
> >> select high or low impudence.
> >
> > "Impedance", unless the MC-50 does really clever stuff that the MC-10
> > doesnt ;-)
> >
> > Gordon
> >
> >
>
> --
> CUL8R
>
> KBOHAE kb0hae@... Martin Campbell
>
> A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
> "Protect your digital freedom and privacy, eliminate DRM, learn more at
> http://www.defectivebydesign.org/what_is_drm"
>

19884. Re: [TS-520_820_530_830] TS 830 impedance

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-28 20:01:35 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 19853 Message: 19884

On Wed, 2009-01-28 at 19:08 +0000, peglegkd5gyg wrote:
> now yall have peaked my interest and i have a question about the mc-50.
>
> what is the difference between low and high impedamce?

Usually dynamic mike capsules are low impedance, because they have a small coil of wire attached to the diaphragm. This coil needs to be light, otherwise the microphone wouldn't be very sensitive. So, there aren't many turns on the coil. Now, audio amplifiers typically have a fairly high input impedance, so microphones often have a small matching transformer tucked away inside. Depending on what you plan on using the microphone for, it might be set up for around 600 ohms impedance, or several tens of kilo-ohms. For the TS-520 (and presumably other similar transceivers), it needs to be about 50k impedance.

> what effect will this have using either or?

The most obvious one is that using a low impedance microphone will give you very low audio levels and poor sound quality.

> was not aware you can change it on mc-50?

The plug is reversible. Inside the mike there is a matching transformer with a tap at 600 ohms and a tap at 50k ohms. I haven't got an MC-50 kicking about to look at, but from memory the plug is similar to the 4-pin mike plug but with five pins arranged in a square with the earth pin in the middle. The PTT wires are across one diagonal pair (so it doesn't matter which way round the plug is for them), with high impedance on one pin and low on the other. The actual lead to the radio has the mike connection between one of the corner pins and the centre, so that with the plug one way up the audio comes from the high impedance end of the winding, and with the plug the other way it comes from the low impedance tap. Clever stuff.

> manual i looked at on line did not say much, could some one explain
> further?

Hope this clears it up a bit.

Gordon

19885. Re: [TS-520_820_530_830] Re: TS 830 No output on SSB transmit HELP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-28 17:52:42 UTC
From: richard
Topic: 19853 Message: 19885

On Wed, 28 Jan 2009 09:51:04 -0600
martin <kb0hae@...> wrote:

> Hi Gordon. Just my bad typing!;^)). If Mr brown is referring to me
> as a novice, I invite him to look up my callsign. I am an Extra who
> has not bothered to change my callsign and have been licensed since
> 1990.
>
> While I am not as knowledgeable as some of the folks here, all it
> takes is to read the MC-50 manual, which is available on the net in
> PDF format.
>
> TTYL Gordon.
>
> Gordon JC Pearce MM3YEQ wrote:
> > On Wed, 2009-01-28 at 00:34 -0600, martin wrote:
> >
> >> select high or low impudence.
> >
> > "Impedance", unless the MC-50 does really clever stuff that the
> > MC-10 doesnt ;-)
> >
> > Gordon
> >
> >
>
Martin, I was not referring to you.
I did say to take it off list, but alas ignored.
Typos , spelling mistakes, bad grammar are very common on lists where English is not the prime language for all users. I ignore them, its proven that a word can be recognised as long as its nearly phonetically correct, carry on with the typos.
As for licences, I've held mine for 34 years, I never bothered to take the morse test as I have very little interest in HF, I'm QRV all bands from top band thru 10 GHz and building for 24 GHz. I have no restrictions on power so I never bothered to move from the old UK B licence to the old UK A licence. Now of course its irrelevant as there is only one full licence.
I expect the tubes in my TS 530 are likely to last a very long time, I only go on HF when I have nothing else to do.

--
Best wishes

Richard Bown

##
Registered Linux User 36561
OS: Ubuntu 8.10, Intrepid, on AMD Dual Athlon 64 +4400: 8 GB RAM DDR2
Ham Call: G8JVM , QRA IO82SP, Interests Microwave
##

19886. Re: Lamps.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-28 22:32:40 UTC
From: latetomemphis
Topic: 19840 Message: 19886

I haven't pulled the VFO-520 apart and was unaware of lamps in it.
Must be blown. All I was aware of was the two red LEDs for VFO and
RIT.

If there's enough power, perhaps I'd be better off taking the power
from the VFO-520 since I will have it open anyway?

Jeff KB3QMT

--- In TS-520_820_530_830@yahoogroups.com, Lou Blasco <radio@...>
wrote:
>
> Hi Jeff,
>
> The VFO520 should have a pair of lamps installed already, they're
> probably blown. I've replaced the lamps in my TS520 and VFO520 with
> 12V 100mA lamps that have 6 inch wire leads on them. The Kenwood
> replacement lamps have 12 inch leads from memory. If you can only
> find the lamps with short leads you have to splice them in where
> convenient. I also added a 3 ohm 5 watt resistor in series with the
> lamps. This reduces the brightness just a little but I hope will
> increase their life significantly. I prefer the glow of a lamp to
> that of the LED's but you could also use LED's as suggested by
others.
>
> I don't think the extra load of the lamps in the AT200 (If you do
> install them) will have any effect on the radio.
>
> Lou - VK3ALB
>
> At 03:31 27/01/2009, you wrote:
> >Hi, I want to put lamps in my VFO-520 and my AT-200 to light them
> >up. I see in my Kenwood TS-820 repair manual that it calls for
> >a "Kenwood Pilot Lamp" part nos# (B31-0241-05).
> >
> >I haven't had my radio apart, but see in the manual that they are
> >using two of these lamps on either side of the meter, and imagine
> >that the proper way for me to do this would be to use two lamps on
my
> >other two meters as well.
> >
> >1: Here is what I would like to know. What is the generic
reference
> >to these lamps, so that I don't have to get special parts (and so I
> >can have them before anything comes apart)?
> >

> >2: Has anyone done this, and is there anything I should look out
for
> >(can't imagine anything, but I'll ask just in case)?
> >
> >3: And finally, I'm planning on connecting these auxilary lamps to
> >the same lines as the lamps powering the meter in the radio, does
> >anyone forsee a problem with this?
> >
> >Thanks in advance!
> >
> >Jeff KB3QMT
>

19887. TS-820 twinkle display now off

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-28 23:11:19 UTC
From: hank.knowles
Topic: 19887 Message: 19887

Hello folks I purchased this TS-820 recently and have a need for someone to minimally repair the blank frequency display does anyone know of anyone near NC or surrounding states that offers this service?

It's been a good many years since I have been on the low bands but retirement is coming soon and I want to be ready!

73's
W4VOT
Hank

19888. Re: [TS-520_820_530_830] Re: Lamps.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-28 23:17:15 UTC
From: John A
Topic: 19840 Message: 19888

I've run into the same issue with my TS-700. The bulbs behind the VFO dial and the fixed channel knob are burnt out, and the service manual only gives Kenwood's part # which is no help in getting replacements. Since getting to these bulbs involves quite a bit of disassembly, I'd really like to have the new ones on hand before I go to all the trouble of taking the radio apart. Would rather not have to do the job twice.

John

On Jan 28, 2009, at 5:32 PM, latetomemphis wrote:

> I haven't pulled the VFO-520 apart and was unaware of lamps in it.
> Must be blown. All I was aware of was the two red LEDs for VFO and
> RIT.
>
> If there's enough power, perhaps I'd be better off taking the power
> from the VFO-520 since I will have it open anyway?
>
> Jeff KB3QMT
>
>
> --- In TS-520_820_530_830@yahoogroups.com, Lou Blasco <radio@...>
> wrote:
>>
>> Hi Jeff,
>>
>> The VFO520 should have a pair of lamps installed already, they're
>> probably blown. I've replaced the lamps in my TS520 and VFO520 with
>> 12V 100mA lamps that have 6 inch wire leads on them. The Kenwood
>> replacement lamps have 12 inch leads from memory. If you can only
>> find the lamps with short leads you have to splice them in where
>> convenient. I also added a 3 ohm 5 watt resistor in series with the
>> lamps. This reduces the brightness just a little but I hope will
>> increase their life significantly. I prefer the glow of a lamp to
>> that of the LED's but you could also use LED's as suggested by
> others.
>>
>> I don't think the extra load of the lamps in the AT200 (If you do
>> install them) will have any effect on the radio.
>>
>> Lou - VK3ALB
>>
>> At 03:31 27/01/2009, you wrote:
>>> Hi, I want to put lamps in my VFO-520 and my AT-200 to light them
>>> up. I see in my Kenwood TS-820 repair manual that it calls for

>>> a "Kenwood Pilot Lamp" part nos# (B31-0241-05).
>>>
>>> I haven't had my radio apart, but see in the manual that they are
>>> using two of these lamps on either side of the meter, and imagine
>>> that the proper way for me to do this would be to use two lamps on
> my
>>> other two meters as well.
>>>
>>> 1: Here is what I would like to know. What is the generic
> reference
>>> to these lamps, so that I don't have to get special parts (and so I
>>> can have them before anything comes apart)?
>>>
>>> 2: Has anyone done this, and is there anything I should look out
> for
>>> (can't imagine anything, but I'll ask just in case)?
>>>
>>> 3: And finally, I'm planning on connecting these auxilary lamps to
>>> the same lines as the lamps powering the meter in the radio, does
>>> anyone forsee a problem with this?
>>>
>>> Thanks in advance!
>>>
>>> Jeff KB3QMT

19889. Re: Lamps.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 00:10:20 UTC
From: Michael
Topic: 19840 Message: 19889

John,

Every time I have a lamp to replace, I do not use incandescent bulbs.
Especially when they are difficult to get at like you are describing.
Replacing these with high power leds is not very difficult. You just
need the correct current limiting resistor to your dc supply.

The obvious advantage of doing this is never having to do it again.
The leds last a very long time. Of course you need to run them within
their current specs to get this long life.

I have been buying my high power leds from All Electronics.
http://www.allelectronics.com/

I almost always use the white leds but, I have even used some high
power red leds behind meters to make them look nice.

If you need any particular advice about doing this, just ask.

Michael

--- In TS-520_820_530_830@yahoogroups.com, John A <john@...> wrote:
>
> I've run into the same issue with my TS-700. The bulbs behind the VFO
> dial and the fixed channel knob are burnt out, and the service manual
> only gives Kenwood's part # which is no help in getting replacements.
> Since getting to these bulbs involves quite a bit of disassembly, I'd
> really like to have the new ones on hand before I go to all the
> trouble of taking the radio apart. Would rather not have to do the
> job twice.
>
> John
>
> On Jan 28, 2009, at 5:32 PM, latetomemphis wrote:
>
> > I haven't pulled the VFO-520 apart and was unaware of lamps in it.
> > Must be blown. All I was aware of was the two red LEDs for VFO and
> > RIT.
> >
> > If there's enough power, perhaps I'd be better off taking the power
> > from the VFO-520 since I will have it open anyway?
> >
> > Jeff KB3QMT
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, Lou Blasco <radio@>
> > wrote:

> >>
> >> Hi Jeff,
> >>
> >> The VFO520 should have a pair of lamps installed already, they're
> >> probably blown. I've replaced the lamps in my TS520 and VFO520 with
> >> 12V 100mA lamps that have 6 inch wire leads on them. The Kenwood
> >> replacement lamps have 12 inch leads from memory. If you can only
> >> find the lamps with short leads you have to splice them in where
> >> convenient. I also added a 3 ohm 5 watt resistor in series with the
> >> lamps. This reduces the brightness just a little but I hope will
> >> increase their life significantly. I prefer the glow of a lamp to
> >> that of the LED's but you could also use LED's as suggested by
> > others.
> >>
> >> I don't think the extra load of the lamps in the AT200 (If you do
> >> install them) will have any effect on the radio.
> >>
> >> Lou - VK3ALB
> >>
> >> At 03:31 27/01/2009, you wrote:
> >>> Hi, I want to put lamps in my VFO-520 and my AT-200 to light them
> >>> up. I see in my Kenwood TS-820 repair manual that it calls for
> >>> a "Kenwood Pilot Lamp" part nos# (B31-0241-05).
> >>>
> >>> I haven't had my radio apart, but see in the manual that they are
> >>> using two of these lamps on either side of the meter, and imagine
> >>> that the proper way for me to do this would be to use two lamps on
> > my
> >>> other two meters as well.
> >>>
> >>> 1: Here is what I would like to know. What is the generic
> > reference
> >>> to these lamps, so that I don't have to get special parts (and so I
> >>> can have them before anything comes apart)?
> >>>
> >>> 2: Has anyone done this, and is there anything I should look out
> > for
> >>> (can't imagine anything, but I'll ask just in case)?
> >>>
> >>> 3: And finally, I'm planning on connecting these auxilary lamps to
> >>> the same lines as the lamps powering the meter in the radio, does
> >>> anyone forsee a problem with this?
> >>>
> >>> Thanks in advance!
> >>>
> >>> Jeff KB3QMT
>

19890. Re: [TS-520_820_530_830] Re: Lamps.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 00:15:57 UTC
From: N6WK
Topic: 19840 Message: 19890

Michael,
Please post the Info on doing the LED mod.
I think many would be interested in what you are doing.
If you can list Part numbers and values, it would also be a big plus.
Thanks,
Gordon
N6WK

Michael wrote:
>
> John,
>
> Every time I have a lamp to replace, I do not use incandescent bulbs.
> Especially when they are difficult to get at like you are describing.
> Replacing these with high power leds is not very difficult. You just
> need the correct current limiting resistor to your dc supply.
>
> The obvious advantage of doing this is never having to do it again.
> The leds last a very long time. Of course you need to run them within
> their current specs to get this long life.
>
> I have been buying my high power leds from All Electronics.
> http://www.allelectronics.com/ <http://www.allelectronics.com/>
>
> I almost always use the white leds but, I have even used some high
> power red leds behind meters to make them look nice.
>
> If you need any particular advice about doing this, just ask.
>
> Michael
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, John A <john@...> wrote:
> >
> > I've run into the same issue with my TS-700. The bulbs behind the VFO
> > dial and the fixed channel knob are burnt out, and the service manual
> > only gives Kenwood's part # which is no help in getting replacements.
> > Since getting to these bulbs involves quite a bit of disassembly, I'd
> > really like to have the new ones on hand before I go to all the
> > trouble of taking the radio apart. Would rather not have to do the
> > job twice.
> >
> > John
> >
> > On Jan 28, 2009, at 5:32 PM, latetomemphis wrote:

> >
> > > I haven't pulled the VFO-520 apart and was unaware of lamps in it.
> > > Must be blown. All I was aware of was the two red LEDs for VFO and
> > > RIT.
> > >
> > > If there's enough power, perhaps I'd be better off taking the power
> > > from the VFO-520 since I will have it open anyway?
> > >
> > > Jeff KB3QMT
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, Lou Blasco <radio@>
> > > wrote:
> > >>
> > >> Hi Jeff,
> > >>
> > >> The VFO520 should have a pair of lamps installed already, they're
> > >> probably blown. I've replaced the lamps in my TS520 and VFO520 with
> > >> 12V 100mA lamps that have 6 inch wire leads on them. The Kenwood
> > >> replacement lamps have 12 inch leads from memory. If you can only
> > >> find the lamps with short leads you have to splice them in where
> > >> convenient. I also added a 3 ohm 5 watt resistor in series with the
> > >> lamps. This reduces the brightness just a little but I hope will
> > >> increase their life significantly. I prefer the glow of a lamp to
> > >> that of the LED's but you could also use LED's as suggested by
> > > others.
> > >>
> > >> I don't think the extra load of the lamps in the AT200 (If you do
> > >> install them) will have any effect on the radio.
> > >>
> > >> Lou - VK3ALB
> > >>
> > >> At 03:31 27/01/2009, you wrote:
> > >>> Hi, I want to put lamps in my VFO-520 and my AT-200 to light them
> > >>> up. I see in my Kenwood TS-820 repair manual that it calls for
> > >>> a "Kenwood Pilot Lamp" part nos# (B31-0241-05).
> > >>>
> > >>> I haven't had my radio apart, but see in the manual that they are
> > >>> using two of these lamps on either side of the meter, and imagine
> > >>> that the proper way for me to do this would be to use two lamps on
> > > my
> > >>> other two meters as well.
> > >>>
> > >>> 1: Here is what I would like to know. What is the generic
> > > reference
> > >>> to these lamps, so that I don't have to get special parts (and so I
> > >>> can have them before anything comes apart)?
> > >>>
> > >>> 2: Has anyone done this, and is there anything I should look out

> > > for
> > >>> (can't imagine anything, but I'll ask just in case)?
> > >>>
> > >>> 3: And finally, I'm planning on connecting these auxilary lamps to
> > >>> the same lines as the lamps powering the meter in the radio, does
> > >>> anyone forsee a problem with this?
> > >>>
> > >>> Thanks in advance!
> > >>>
> > >>> Jeff KB3QMT
> >
>
>

19891. vfo-230

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 01:03:16 UTC
From: David Owens
Topic: 11720 Message: 19891

Hello members,
 Hope everyone is enjoying their Kenwoods. I have a Ts530s and vfo-230. My vfo-230 starting intermittingly blinking and one or two digits coming on and off . A slight tap on top would bring it back and then go blank. Unplugging power it would return and eventually do the same thing. I have tightend all circuit board screws and very carefully cleaned the two relay contacts but now it will not show any display at all. Is it possible the cable between radio and vfo is bad? If anybody has any help for this I would appreciate it. I really have never used the external vfo, but now I am trying to get into Dxing and it is a must to have. I hate not to have it working. Any help guys. Thanks Dave Kc5ee

[Non-text portions of this message have been removed]

19892. Re: [TS-520_820_530_830] Re: Lamps.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 00:57:20 UTC
From: ve3wej gmail
Topic: 19840 Message: 19892

I have the 820 vfo, and it is wired to the 12.6v AC connection on the 9 pin din. I replaced it with 14 volt 40 ma bulbs, and had no problems

VE3WEJ
Dave Garber

10-X # 23465
echolink # 52852
irlp node 2202
email ve3wej@...
----- Original Message -----
From: latetomemphis
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, January 28, 2009 5:32 PM
Subject: [TS-520_820_530_830] Re: Lamps.

I haven't pulled the VFO-520 apart and was unaware of lamps in it. Must be blown. All I was aware of was the two red LEDs for VFO and RIT.

If there's enough power, perhaps I'd be better off taking the power from the VFO-520 since I will have it open anyway?

Jeff KB3QMT

--- In TS-520_820_530_830@yahoogroups.com, Lou Blasco <radio@...> wrote:
>
> Hi Jeff,
>
> The VFO520 should have a pair of lamps installed already, they're
> probably blown. I've replaced the lamps in my TS520 and VFO520 with
> 12V 100mA lamps that have 6 inch wire leads on them. The Kenwood
> replacement lamps have 12 inch leads from memory. If you can only
> find the lamps with short leads you have to splice them in where
> convenient. I also added a 3 ohm 5 watt resistor in series with the
> lamps. This reduces the brightness just a little but I hope will
> increase their life significantly. I prefer the glow of a lamp to
> that of the LED's but you could also use LED's as suggested by others.
>
> I don't think the extra load of the lamps in the AT200 (If you do
> install them) will have any effect on the radio.
>
> Lou - VK3ALB
>

> At 03:31 27/01/2009, you wrote:
> >Hi, I want to put lamps in my VFO-520 and my AT-200 to light them
> >up. I see in my Kenwood TS-820 repair manual that it calls for
> >a "Kenwood Pilot Lamp" part nos# (B31-0241-05).
> >
> >I haven't had my radio apart, but see in the manual that they are
> >using two of these lamps on either side of the meter, and imagine
> >that the proper way for me to do this would be to use two lamps on
my
> >other two meters as well.
> >
> >1: Here is what I would like to know. What is the generic
reference
> >to these lamps, so that I don't have to get special parts (and so I
> >can have them before anything comes apart)?
> >
> >2: Has anyone done this, and is there anything I should look out
for
> >(can't imagine anything, but I'll ask just in case)?
> >
> >3: And finally, I'm planning on connecting these auxilary lamps to
> >the same lines as the lamps powering the meter in the radio, does
> >anyone forsee a problem with this?
> >
> >Thanks in advance!
> >
> >Jeff KB3QMT
>

[Non-text portions of this message have been removed]

19893. Re: [TS-520_820_530_830] Re: Lamps.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 01:25:41 UTC
From: Peter A Markavage
Topic: 19840 Message: 19893

I buy all those small Kenwood (other mfr's from the 70's also used them too) type lamps at Parts Express. They have a wide variety of 6, 8, and 12 volts lamps with leads.
http://www.parts-express.com/wizards/searchResults.cfm?srchExt=CAT&srchCat=288&CFID=4977519&CFTOKEN=76412495
Watch for a possible link wrap to the second line.

Pete, wa2cwa

On Wed, 28 Jan 2009 18:17:15 -0500 John A <john@...> writes:
> I've run into the same issue with my TS-700. The bulbs behind the VFO
>
> dial and the fixed channel knob are burnt out, and the service
> manual
> only gives Kenwood's part # which is no help in getting
> replacements.
> Since getting to these bulbs involves quite a bit of disassembly,
> I'd
> really like to have the new ones on hand before I go to all the
> trouble of taking the radio apart. Would rather not have to do the
>
> job twice.
>
> John
>
> On Jan 28, 2009, at 5:32 PM, latetomemphis wrote:
>
> > I haven't pulled the VFO-520 apart and was unaware of lamps in
> it.
> > Must be blown. All I was aware of was the two red LEDs for VFO
> and
> > RIT.
> >
> > If there's enough power, perhaps I'd be better off taking the
> power
> > from the VFO-520 since I will have it open anyway?
> >
> > Jeff KB3QMT
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, Lou Blasco <radio@...>
> > wrote:
> >>
> >> Hi Jeff,
> >>

> >> The VFO520 should have a pair of lamps installed already,
> they're
> >> probably blown. I've replaced the lamps in my TS520 and VFO520
> with
> >> 12V 100mA lamps that have 6 inch wire leads on them. The Kenwood
> >> replacement lamps have 12 inch leads from memory. If you can
> only
> >> find the lamps with short leads you have to splice them in where
> >> convenient. I also added a 3 ohm 5 watt resistor in series with
> the
> >> lamps. This reduces the brightness just a little but I hope will
> >> increase their life significantly. I prefer the glow of a lamp
> to
> >> that of the LED's but you could also use LED's as suggested by
> > others.
> >>
> >> I don't think the extra load of the lamps in the AT200 (If you
> do
> >> install them) will have any effect on the radio.
> >>
> >> Lou - VK3ALB

19894. RE: [TS-520_820_530_830] Re: TS 830 No output on SSB transmit HELP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 01:43:08 UTC
From: Kevin King
Topic: 19853 Message: 19894

Sounds like time to start with a meter or better and O scope and follow the
mike audio till it stops.

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of TIM RIERDEN
Sent: Wednesday, January 28, 2009 12:11 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS 830 No output on SSB transmit HELP

--- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@...> wrote:
>

Tried playing with the PROC button with great anticipation. Rats! No
good. My next move is to open it up and take look see. Any ideas on
things I should be looking for?

Tim, W7TSR

> I just remembered a known Issue.
> Sometimes the Processor switch gets dirty and since all Audio goes
> through that switch, it will NOT allow any Audio to pass.
> Try switching the Processor switch in and out a few times and then
see
> what happens.
>
> 73,
> Gordon
>
>
> Kevin King wrote:
> >
> > Turn the microphone "on" if using the sm50 or 60. :) kind of like
the sg
> > switch. Or the mike gain is not turned up. Or the mike you have
is not
> > properly wired.
> >
> > -Kevin
> >
> > -----Original Message-----
> > From: TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>
> > [mailto:TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of TIM

RIERDEN
> > Sent: Tuesday, January 27, 2009 12:00 AM
> > To: TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>
> > Subject: [TS-520_820_530_830] TS 830 No output on SSB transmit
HELP
> >
> > Hi: I'm a new general and have a curious problem. The TS 830
tunes up
> > perfectly, and shows full power on CW. When placed on SSB upper or
> > lower, there is no output. I've listened to the monitor, nothing.
I've
> > checked it with two meters beside the one on the radio, zilch.
What
> > should I do?
> >
> > Tim W7TSR
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
>

Yahoo! Groups Links

19895. RE: [TS-520_820_530_830] Re: TS 830 No output on SSB transmit HELP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 01:46:48 UTC
From: Kevin King
Topic: 19853 Message: 19895

Whether it is on High or low impedance or with the plug reversed on the base, audio will pass to the radio and output some power.

I do agree a known good mike is needed first. One could always hook the output of an audio generator to the mike input to test. Sound cards do a good job of this if you do not have test equipment.

-Kevin

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Gordon JC Pearce
MM3YEQ
Sent: Wednesday, January 28, 2009 2:52 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: TS 830 No output on SSB transmit HELP

On Wed, 2009-01-28 at 00:34 -0600, martin wrote:

> select high or low impudence.

"Impedance", unless the MC-50 does really clever stuff that the MC-10 doesnt ;-)

Gordon

Yahoo! Groups Links

19896. Re: [TS-520_820_530_830] TS-820 twinkle display now off

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 04:39:30 UTC
From: Dennis Windle
Topic: 19887 Message: 19896

Hank
Is it a TS820 or a TS-820S you got off Ebay ? You may already know this but the TS-820 did not come standard with the Digital Display but is was available as an add-on option. The TS-820S included the Digital Display. The typical problem with the Display is intermittent operation and cleaning the mounting screws and PC board where the screws mount it sometimes resolves the problem.

D.Windle

----- Original Message -----
From: hank.knowles
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, January 28, 2009 6:11 PM
Subject: [TS-520_820_530_830] TS-820 twinkle display now off

Hello folks I purchased this TS-820 recently and have a need for
someone to minimally repair the blank frequency display does anyone
know of anyone near NC or surrounding states that offers this service?

It's been a good many years since I have been on the low bands but
retirement is coming soon and I want to be ready!

73's
W4VOT
Hank

[Non-text portions of this message have been removed]

19897. Kenwood 820S 3.3VDC Adjust Point?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 05:29:59 UTC
From: Bill Marvin
Topic: 19897 Message: 19897

Hi Group Where is the proper Testpoint on the AF-AVR Brd to read the 3.3 VDC level??

Thanks

Bill KBB9IV

19898. LED backfeed?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 11:06:03 UTC
From: rickoreair
Topic: 19898 Message: 19898

Not an operational issue, but rather one of curiosity that I'd like to fix. This group has really helped get a doa TS-530SP radio back going, and is a very valuable resource, and is very much appreciated.

I have two led's that when the switch that they indicate is off, are on very dim. They operate full brightness when their respective switch is on. The LED's are for the RF ATT switch, and the XIT switch. Not a big issue, but I'd like to know why.

I don't know where to begin checking. Thanks in advance for any advice.

Rick WB4BSP

19899. Re: Kenwood 820S 3.3VDC Adjust Point?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 15:37:35 UTC
From: w5rkl
Topic: 19897 Message: 19899

The 820's AF AVR board has two plugs closest to the front panel labeled AF1 and AF2. With the front panel facing you and the 820 upside down, AF1 is the plug on the left and plug AF2 is on the right. Pin numbering is from right to left on each plug, 1 thru 6. AF1 pin 1 and 2 are the 9VDC connections and AF2 pin 6 is the 3.3 VDC connection. VR4, located in the middle of the AF AVR board adjust the 9VDC and VR1, located between plugs AF1 and AF2, adjusts the 3.3VDC. Voltage measurements are between plug pins and chassis ground.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Bill Marvin" <wmarvin@...> wrote:
>
> Hi Group Where is the proper Testpoint on the AF-AVR Brd to read the
> 3.3 VDC level??
>
> Thanks
>
> Bill KBB9IV
>

19900. Re: TS-820 twinkle display now off

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 16:14:42 UTC
From: w5rkl
Topic: 19887 Message: 19900

Remove the top cover from your 820, being careful not to break the speaker wires. If there is an open space to the left of the VFO your 820 does not contain the optional digital display. The open space to the left of the VFO is reserved for the digital display counter assembly. The digital display tube that is part of the optional digital display is mounted behind the front panel directly above the 100Khz dial and the 5VDC regulator is mounted on vertical supports just to the right rear of the IF board. The IF board is the board mounted along the left side of the 820.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Dennis Windle" <denniswindle@...> wrote:
>
> Hank
> Is it a TS820 or a TS-820S you got off Ebay ? You may already know this but the TS-820 did not come standard with the Digital Display but is was available as an add-on option. The TS-820S included the Digital Display. The typical problem with the Display is intermittent operation and cleaning the mounting screws and PC board where the screws mount it sometimes resolves the problem.
>
> D.Windle
>
> ----- Original Message -----
> From: hank.knowles
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, January 28, 2009 6:11 PM
> Subject: [TS-520_820_530_830] TS-820 twinkle display now off
>
>
> Hello folks I purchased this TS-820 recently and have a need for
> someone to minimally repair the blank frequency display does anyone
> know of anyone near NC or surrounding states that offers this service?
>
> It's been a good many years since I have been on the low bands but
> retirement is coming soon and I want to be ready!
>
> 73's
> W4VOT
> Hank
>

>
>
>
>
> [Non-text portions of this message have been removed]
>

19901. Re: Lamps.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 16:18:09 UTC
From: Michael
Topic: 19840 Message: 19901

Gordon,

This is the LED I use. LED-75 from All Electronics. It costs 1.20 each. They are very bright.
http://www.allelectronics.com/make-a-store/item/LED-75/ULTRABRIGHT-WHITE-LED-T-1-3/4/-/1.html

If you were going to run this from 12 volts dc you would need to put a 680 ohm resistor in series with it. That would keep you well below the 20 ma maximum for this device. If you have another voltage just use ohms law to adjust the current. The forward voltage drop is about 3.8 volts.

Mounting is up to your own ingenuity. I have always found that part very simple.

This led has a rather narrow beam out of it contrary to the claim by All Electronics. I simply put the lens against my bench grinder and make two 90 degree surfaces where the original lens was. I then polish these surfaces by rubbing on a piece of wood or using my polishing wheel which is faster. This polishing does not need to be perfect.

Mounting this behind a meter distributes the light across the face. The edge of the 90 degree angle should be vertical.

I have also done this using only a 12 volts ac supply using a simple silicon diode rectifier and filter capacitor to get dc.

I do this extra work over just installing another incandescent bulb so I don't need to do it again. Some of these bulbs are difficult to get at.

If someone has found a super bright led that has a very wide viewing angle I would love to hear where I can get some.

BTW I even managed to mount a pair of these in my Kenwood SW-2000 swr power meter. The originals bulbs were grain of wheat bulbs and I had to get creative to get these leds to fit.

--- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@...> wrote:
>
> Michael,
> Please post the Info on doing the LED mod.
> I think many would be interested in what you are doing.
> If you can list Part numbers and values, it would also be a big plus.
> Thanks,
> Gordon
> N6WK

>
>
>
> Michael wrote:
> >
> > John,
> >
> > Every time I have a lamp to replace, I do not use incandescent bulbs.
> > Especially when they are difficult to get at like you are describing.
> > Replacing these with high power leds is not very difficult. You just
> > need the correct current limiting resistor to your dc supply.
> >
> > The obvious advantage of doing this is never having to do it again.
> > The leds last a very long time. Of course you need to run them within
> > their current specs to get this long life.
> >
> > I have been buying my high power leds from All Electronics.
> > http://www.allelectronics.com/ <http://www.allelectronics.com/>
> >
> > I almost always use the white leds but, I have even used some high
> > power red leds behind meters to make them look nice.
> >
> > If you need any particular advice about doing this, just ask.
> >
> > Michael
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, John A <john@> wrote:
> > >
> > > I've run into the same issue with my TS-700. The bulbs behind
the VFO
> > > dial and the fixed channel knob are burnt out, and the service
manual
> > > only gives Kenwood's part # which is no help in getting
replacements.
> > > Since getting to these bulbs involves quite a bit of
disassembly, I'd
> > > really like to have the new ones on hand before I go to all the
> > > trouble of taking the radio apart. Would rather not have to do the
> > > job twice.
> > >
> > > John
> > >
> > > On Jan 28, 2009, at 5:32 PM, latetomemphis wrote:
> > >
> > > > I haven't pulled the VFO-520 apart and was unaware of lamps in it.
> > > > Must be blown. All I was aware of was the two red LEDs for VFO and
> > > > RIT.
> > > >
> > > > If there's enough power, perhaps I'd be better off taking the

power
> > > > from the VFO-520 since I will have it open anyway?
> > > >
> > > > Jeff KB3QMT
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, Lou Blasco <radio@>
> > > > wrote:
> > > >>
> > > >> Hi Jeff,
> > > >>
> > > >> The VFO520 should have a pair of lamps installed already, they're
> > > >> probably blown. I've replaced the lamps in my TS520 and
VFO520 with
> > > >> 12V 100mA lamps that have 6 inch wire leads on them. The Kenwood
> > > >> replacement lamps have 12 inch leads from memory. If you can only
> > > >> find the lamps with short leads you have to splice them in where
> > > >> convenient. I also added a 3 ohm 5 watt resistor in series
with the
> > > >> lamps. This reduces the brightness just a little but I hope will
> > > >> increase their life significantly. I prefer the glow of a lamp to
> > > >> that of the LED's but you could also use LED's as suggested by
> > > > others.
> > > >>
> > > >> I don't think the extra load of the lamps in the AT200 (If you do
> > > >> install them) will have any effect on the radio.
> > > >>
> > > >> Lou - VK3ALB
> > > >>
> > > >> At 03:31 27/01/2009, you wrote:
> > > >>> Hi, I want to put lamps in my VFO-520 and my AT-200 to light
them
> > > >>> up. I see in my Kenwood TS-820 repair manual that it calls for
> > > >>> a "Kenwood Pilot Lamp" part nos# (B31-0241-05).
> > > >>>
> > > >>> I haven't had my radio apart, but see in the manual that
they are
> > > >>> using two of these lamps on either side of the meter, and
imagine
> > > >>> that the proper way for me to do this would be to use two
lamps on
> > > > my
> > > >>> other two meters as well.
> > > >>>
> > > >>> 1: Here is what I would like to know. What is the generic
> > > > reference
> > > >>> to these lamps, so that I don't have to get special parts
(and so I
> > > >>> can have them before anything comes apart)?

> > > >>>
> > > >>> 2: Has anyone done this, and is there anything I should look out
> > > > for
> > > >>> (can't imagine anything, but I'll ask just in case)?
> > > >>>
> > > >>> 3: And finally, I'm planning on connecting these auxilary
lamps to
> > > >>> the same lines as the lamps powering the meter in the radio,
does
> > > >>> anyone forsee a problem with this?
> > > >>>
> > > >>> Thanks in advance!
> > > >>>
> > > >>> Jeff KB3QMT
> > >
> >
> >
>

19902. Re: [TS-520_820_530_830] 6146B, 6146W, and the hybrids questions

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 13:08:31 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 19848 Message: 19902

On Mon, 2009-01-26 at 21:52 +0000, Jeramy Ross wrote:
> Ok. I realize this has all been hashed out in the past in both the
> Kenwood hybrid circles and the wider glowbug world;

Just to return to this for a moment - the original manual that came with my TS-520 says it uses 6146As but the PDF available on KG6HAF's site says it uses S2001As or 6146Bs.

Which is it? I'm using NOS 6146As at the moment and it seems to work. It wasn't particularly easy to neutralise, though.

Gordon

19903. TS-830 and W2ENY Headset

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 13:40:48 UTC
From: archer5949
Topic: 19903 Message: 19903

Hi Gang,

Anyone use the W2ENY headset with an 830 or other hybrid rig?

73,
Kevin

19904. Re: 6146B, 6146W, and the hybrids questions

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 17:48:14 UTC
From: w5rkl
Topic: 19848 Message: 19904

The Kenwood hybrid manuals for the TS-520 (page 28), TS-520S (page 26), and the TS-520SE (page 23), under the paragraph titled "TRANSMITTER SECTION", clearly states the following:

"The SSB signal is amplified by the 12BY7A driver tube to drive the two S2001A (6146B) amplifier tubes in the final stage. They operate in Class AB1."

Therefore, the correct final tube for all 520/520S/520SE models is the 6146B not the 6146A.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce MM3YEQ <gordon@...> wrote:
>
> On Mon, 2009-01-26 at 21:52 +0000, Jeramy Ross wrote:
> > Ok. I realize this has all been hashed out in the past in both the
> > Kenwood hybrid circles and the wider glowbug world;
>
> Just to return to this for a moment - the original manual that came with
> my TS-520 says it uses 6146As but the PDF available on KG6HAF's site
> says it uses S2001As or 6146Bs.
>
> Which is it? I'm using NOS 6146As at the moment and it seems to work.
> It wasn't particularly easy to neutralise, though.
>
> Gordon
>

19905. Re: [TS-520_820_530_830] Re: 6146B, 6146W, and the hybrids questions

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 17:58:00 UTC
From: Nu7z@aol.com
Topic: 19848 Message: 19905

Hi Gordon -- Mike is correct -- early on in the TS-520 series radios they wewre using the 6146A, however - just as you found out they are not very friendly, when it comes to alignment -- This is due in part to that series of tubes design hence the 6146B -- The Japanese equivalent is the S2001B, both are great tubes and will work well in your radio. I can't count the number of times that a Kenwood radio has come into my shop with 6146W tubes and just does work. So, my recommndation is to stick with what works, S2001B or 6146B.

Rick NU7Z

-----Original Message-----
From: w5rkl <w5rkl@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thu, 29 Jan 2009 9:48 am
Subject: [TS-520_820_530_830] Re: 6146B, 6146W, and the hybrids questions

The Kenwood hybrid manuals for the TS-520 (page 28), TS-520S (page

26), and the TS-520SE (page 23), under the paragraph titled

"TRANSMITTER SECTION", clearly states the following:

"The SSB signal is amplified by the 12BY7A driver tube to drive the

two S2001A (6146B) amplifier tubes in the final stage. They operate in

Class AB1."

Therefore, the correct final tube for all 520/520S/520SE models is the

6146B not the 6146A.

73

Mike

W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce MM3YEQ

<gordon@...> wrote:

>

> On Mon, 2009-01-26 at 21:52 +0000, Jeramy Ross wrote:

> > Ok. I realize this has all been hashed out in the past in both the

> > Kenwood hybrid circles and the wider glowbug world;

>

> Just to return to this for a moment - the original manual that came with

> my TS-520 says it uses 6146As but the PDF available on KG6HAF's site

> says it uses S2001As or 6146Bs.

>

> Which is it? I'm using NOS 6146As at the moment and it seems to work.

> It wasn't particularly easy to neutralise, though.

>

> Gordon

>

[Non-text portions of this message have been removed]

19906. Re: [TS-520_820_530_830] TS-830 and W2ENY Headset

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 17:00:47 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 19903 Message: 19906

On Thu, 2009-01-29 at 13:40 +0000, archer5949 wrote:
> W2ENY

19907. Re: [TS-520_820_530_830] TS-830 and W2ENY Headset

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 17:17:24 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 19903 Message: 19907

On Thu, 2009-01-29 at 13:40 +0000, archer5949 wrote:
> Hi Gang,
>
> Anyone use the W2ENY headset with an 830 or other hybrid rig?
>
> 73,
> Kevin

I see a reason why they wouldn't work. The 8-pin mike connectors supply 8v on one of their pins, which is presumably used here to power the electret mike element. You'd need to make up your own cable, and supply power, either with a small battery or by adding a resistor between the mike signal lead and a suitable supply rail. I would probably go down the latter route, but be aware that this will cause problems for dynamic mikes.

There's not a lot of information on the site (or maybe it's not working well for me, on a slow connection), but I expect if you email the seller they will tell you exactly how to go about it.

Gordon

19908. Re: [TS-520_820_530_830] Re: 6146B, 6146W, and the hybrids questions

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 18:15:33 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 19848 Message: 19908

On Thu, 2009-01-29 at 17:48 +0000, w5rkl wrote:
> The Kenwood hybrid manuals for the TS-520 (page 28), TS-520S (page
> 26), and the TS-520SE (page 23), under the paragraph titled
> "TRANSMITTER SECTION", clearly states the following:
>
> "The SSB signal is amplified by the 12BY7A driver tube to drive the
> two S2001A (6146B) amplifier tubes in the final stage. They operate in
> Class AB1."

I wonder if I have an old manual, or something. It definitely says
6146A.

> Therefore, the correct final tube for all 520/520S/520SE models is the
> 6146B not the 6146A.

Oh well, I know what to look out for at the next rally.

I know that various sites mention problems caused by running 6146Bs in
radios designed for 6146As. Is there likely to be problems from running
6146As in a radio designed for 6146Bs? Since I have one of the
much-derided Foundation licences I'm running it at comparatively low
power, but I don't want to toast anything when I turn the wick up. I've
run the transmitter at the full 100W into a dummy load for several
minutes, with no apparent ill-effects - that's not really a real-world
test though.

Gordon

19909. External VFO Help Needed

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 18:18:36 UTC
From: kb7oge
Topic: 19909 Message: 19909

Thanks to the help I received here I have My Kenwood TS830S up and working. I also was given a VFO-230. I have the manual and have read it but just don't understand why and when I would want to use it. I also need to know how to use it. Could someone please point me to some type of tutorial for the VFO-230. My Icom 737 does not have an external VFO and my old Century 21 did not have one either. I could really use some help.

Thanks
Chuck Roth
KB7OGE

19910. Re: TS-820 twinkle display now off

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 18:33:24 UTC
From: w5rkl
Topic: 19887 Message: 19910

Forgot to include this part.

The digital display tube, counter assembly, and 5VDC regulator are only present when the digital display option was purchased and installed. The digital display option is the "DG-1" which includes the following items:

5V-AVR (X43-1220-00)
Display (X54-1170-00)
Counter Mix (X54-1150-00)
Counter (X54-1160-00)

The Counter Mix and Counter PC boards connect together inside the counter assembly's metal container through rows of male and female pins. The counter assembly itself connects to the 820 through a multi-wire plug on the bottom of the 820. Power for the counter assembly and the display tube is provided by the 5V-AVR unit. The 5V-AVR unit powers nothing other than the counter assembly. The power source for the 5V-AVR unit is obtained from the 14A supply. Therefore, a failure in the 14A supply results in a failure in the counter unit, no digital display. There are other circuits that will be affected by a failure in the 14A supply such as the receiver's 3.3VDC bias, 9VDC supply for the VFO, PLL, IF, and RF unit boards, and the relay.

Most, not all, digital display failures or intermittent failures occur due to dirty pins on the counter assembly connections to the 820, display tube interconnecting plug, and the 5V-AVR plug, both top and bottom. Cleaning the connecting pins "usually", not always, fixes most display problems. Cleaning may also require removing the counter assembly form the 820, removing the counter assemblies from the counter cabinet, and cleaning the interconnecting pins on the Counter Mix and Counter assemblies. Care must exercised to ensure wires on the connecting plugs are not broken, static electrical discharge does not damage the Counter Mix and Counter PC boards, Counter Mix and Counter interconnecting pins are not broken or bent, and the various plugs are inserted correctly.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Remove the top cover from your 820, being careful not to break the
> speaker wires. If there is an open space to the left of the VFO your
> 820 does not contain the optional digital display. The open space to

> the left of the VFO is reserved for the digital display counter
> assembly. The digital display tube that is part of the optional
> digital display is mounted behind the front panel directly above the
> 100Khz dial and the 5VDC regulator is mounted on vertical supports
> just to the right rear of the IF board. The IF board is the board
> mounted along the left side of the 820.
>
> 73
> Mike
> W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Dennis Windle"
> <denniswindle@> wrote:
> >
> > Hank
> > Is it a TS820 or a TS-820S you got off Ebay ? You may
> already know this but the TS-820 did not come standard with the
> Digital Display but is was available as an add-on option. The TS-820S
> included the Digital Display. The typical problem with the Display is
> intermittent operation and cleaning the mounting screws and PC board
> where the screws mount it sometimes resolves the problem.
> >
> > D.Windle
> >
> > ----- Original Message -----
> > From: hank.knowles
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Wednesday, January 28, 2009 6:11 PM
> > Subject: [TS-520_820_530_830] TS-820 twinkle display now off
> >
> >
> > Hello folks I purchased this TS-820 recently and have a need for
> > someone to minimally repair the blank frequency display does anyone
> > know of anyone near NC or surrounding states that offers this
service?
> >
> > It's been a good many years since I have been on the low bands but
> > retirement is coming soon and I want to be ready!
> >
> > 73's
> > W4VOT
> > Hank
> >
> >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >

>

19911. TS-520 Power Transformer

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 18:42:51 UTC
From: vu2jmx
Topic: 19911 Message: 19911

Hi,

My TS-520 power trafo is busted; Where can I get a replacement, please ?

Right now I'm using a trafo from FT-101. Unfortunately the HV is insufficient. Secondly, the FT-101 trafo does not have the necessary (rather, the right voltages) taps for Final screen, Driver plate and Screen. Because of this I'm forced to use dropping resistors which are a PIN.
The 14VDC is now running on half-wave (single Diode).

Anyway, to keep it simple, I feel it is better to get the right replacemt trafo - if one is available.

Thanks and 73,
Aron.

19912. Re: 6146B, 6146W, and the hybrids questions

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 18:52:39 UTC
From: w5rkl
Topic: 19848 Message: 19912

Gordon,

A transmitter that produces 100 watts or more output on, say, 80 and
40 meters, is not an indication the finals are properly neutralized.
Power output, by itself, is not an indicator of a properly neutralized
final, maximum power output at the same point that maximum plate
current "dip" occurs is.

A few problems associated with improper neutralized finals are much
higher plate current at maximum output which leads to higher tube
envelope temperatures resulting in shorter tube life, higher stress
placed on the power supplies, instability (oscillations) in the final
amplifier resulting in possible destruction of the final amplifier's
HV RF choke, final tubes themselves, and neutralizing circuitry, and
of course radiation of unwanted emissions.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce MM3YEQ
<gordon@...> wrote:
>
> On Thu, 2009-01-29 at 17:48 +0000, w5rkl wrote:
> > The Kenwood hybrid manuals for the TS-520 (page 28), TS-520S (page
> > 26), and the TS-520SE (page 23), under the paragraph titled
> > "TRANSMITTER SECTION", clearly states the following:
> >
> > "The SSB signal is amplified by the 12BY7A driver tube to drive the
> > two S2001A (6146B) amplifier tubes in the final stage. They operate in
> > Class AB1."
>
> I wonder if I have an old manual, or something. It definitely says
> 6146A.
>
> > Therefore, the correct final tube for all 520/520S/520SE models is the
> > 6146B not the 6146A.
>
> Oh well, I know what to look out for at the next rally.
>
> I know that various sites mention problems caused by running 6146Bs in
> radios designed for 6146As. Is there likely to be problems from running
> 6146As in a radio designed for 6146Bs? Since I have one of the
> much-derided Foundation licences I'm running it at comparatively low
> power, but I don't want to toast anything when I turn the wick up. I've
> run the transmitter at the full 100W into a dummy load for several

> minutes, with no apparent ill-effects - that's not really a real-world
> test though.
>
> Gordon
>

19913. Re: TS-520 Power Transformer

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 19:01:04 UTC
From: w5rkl
Topic: 19911 Message: 19913

Aron,

You can either find a parts 520 or have the power transformer rewound.
For rewinding, here's a link you might try.

http://members.tripod.com/tubes_tubes_tubes/transformerrewindingservice/id32.html

I'm sure there are other transformer rewinding websites.

Using a power transformer that is not designed for nor produces the
correct AC voltages for the 520 is not a good idea.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "vu2jmx" <vu2jmx@...> wrote:
>
> Hi,
>
> My TS-520 power trafo is busted; Where can I get a replacement, please ?
>
> Right now I'm using a trafo from FT-101. Unfortunately the HV is
> insufficient. Secondly, the FT-101 trafo does not have the necessary
> (rather, the right voltages) taps for Final screen, Driver plate and
> Screen. Because of this I'm forced to use dropping resistors which are
> a PIN.
> The 14VDC is now running on half-wave (single Diode).
>
> Anyway, to keep it simple, I feel it is better to get the right
> replacemt trafo - if one is available.
>
> Thanks and 73,
> Aron.
>

19914. Re: 6146B, 6146W, and the hybrids questions

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 19:26:18 UTC
From: r2herman
Topic: 19848 Message: 19914

I have a follow-up question. My Elmer has been SK for a number of years. He had a TS-520S and was largely responsible for guiding me to purchasing a new TS-530S in 1982, so now I turn to you folks. Does neutralization change with time/age? I'm wondering if I need to worry about reneutralizing the finals. Due to changing circumstances through the years, I've only had the rig on the air for less than 75hrs of actual transmitting time, so they should have lots of life left in them, and I want to protect those lives.

Thanks! Tracy Ringering, N7FPI

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
>
> Gordon,
>
> A transmitter that produces 100 watts or more output on, say, 80 and
> 40 meters, is not an indication the finals are properly neutralized.
> Power output, by itself, is not an indicator of a properly
neutralized
> final, maximum power output at the same point that maximum plate
> current "dip" occurs is.
>
> A few problems associated with improper neutralized finals are much
> higher plate current at maximum output which leads to higher tube
> envelope temperatures resulting in shorter tube life, higher stress
> placed on the power supplies, instability (oscillations) in the
final
> amplifier resulting in possible destruction of the final amplifier's
> HV RF choke, final tubes themselves, and neutralizing circuitry, and
> of course radiation of unwanted emissions.
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce MM3YEQ
> <gordon@> wrote:
> >
> > On Thu, 2009-01-29 at 17:48 +0000, w5rkl wrote:
> > > The Kenwood hybrid manuals for the TS-520 (page 28), TS-520S
(page
> > > 26), and the TS-520SE (page 23), under the paragraph titled
> > > "TRANSMITTER SECTION", clearly states the following:
> > >

> > > "The SSB signal is amplified by the 12BY7A driver tube to drive
the
> > > two S2001A (6146B) amplifier tubes in the final stage. They
operate in
> > > Class AB1."
> >
> > I wonder if I have an old manual, or something. It definitely
says
> > 6146A.
> >
> > > Therefore, the correct final tube for all 520/520S/520SE models
is the
> > > 6146B not the 6146A.
> >
> > Oh well, I know what to look out for at the next rally.
> >
> > I know that various sites mention problems caused by running
6146Bs in
> > radios designed for 6146As. Is there likely to be problems from
running
> > 6146As in a radio designed for 6146Bs? Since I have one of the
> > much-derided Foundation licences I'm running it at comparatively
low
> > power, but I don't want to toast anything when I turn the wick
up. I've
> > run the transmitter at the full 100W into a dummy load for several
> > minutes, with no apparent ill-effects - that's not really a real-
world
> > test though.
> >
> > Gordon
> >
>

19915. Re: [TS-520_820_530_830] Re: 6146B, 6146W, and the hybrids questions

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 19:05:17 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 19848 Message: 19915

On Thu, 2009-01-29 at 18:52 +0000, w5rkl wrote:
> Gordon,
>
> A transmitter that produces 100 watts or more output on, say, 80 and
> 40 meters, is not an indication the finals are properly neutralized.
> Power output, by itself, is not an indicator of a properly neutralized
> final, maximum power output at the same point that maximum plate
> current "dip" occurs is.

Yes. One thing I've noticed is that it seems to be a bit fiddly sometimes when I tune it up, and not others. I'm mostly active on 20m and 40m, and what I have found is that *sometimes* maximum output power is a little bit off the deepest dip. Leave it for an while, and it will be back to being dead on again. I don't really see why it does this, but I suspect it's heat related. I've checked for signs of distress in and around the PA cage, but there's nothing obvious. What I think I'll do is leave it on all day to get thoroughly warm before trying the neutralising again.

> A few problems associated with improper neutralized finals are much
> higher plate current at maximum output which leads to higher tube
> envelope temperatures resulting in shorter tube life, higher stress
> placed on the power supplies, instability (oscillations) in the final
> amplifier resulting in possible destruction of the final amplifier's
> HV RF choke, final tubes themselves, and neutralizing circuitry, and
> of course radiation of unwanted emissions.

Plate current is normal at 200mA at full chat on 20m, and the output spectrum is nice and clean. I haven't got any screenshots off the analyser, but then I didn't spot anything notable. I was surprised at how mucky the spectrum was before I neutralised the PA.

Gordon

19916. Re: External VFO Help Needed

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 20:09:50 UTC
From: al_kozakiewicz
Topic: 19909 Message: 19916

The main reason you'd want to use it is for split frequency (duplex) operation, i.e. transmit on one frequency and listen on another. That ability is, in my opinion, of limited value in normal non-emergency use on HF. Some DX'ers use it with varying degrees of arrogance and consideration.

For example, on 80m there is a specific DX window (good). It's only 10kHz wide (not so good). It's in the Extra class segment of the band (no good at all for General class licensees).

Some DX'ers will operate split entirely within the window. Those lids I'd like to personally punch in the face - nothing like effectively comandeering virtually the entire window for yourself.

A nice thing to do if you're going to operate split is transmit in the DX window and listen in the general class segment. That allows operators who normally couldn't legally work a DX station to have the chance.

Of course a dude from NY (me) isn't going to create a pileup by calling CQ, but I still think simplex is the more courteous option on the more crowded HF bands.

Off my soapbox,

Al
AB2ZY

--- In TS-520_820_530_830@yahoogroups.com, "kb7oge" <kb7oge@...> wrote:
>
> Thanks to the help I received here I have My Kenwood TS830S up and
> working. I also was given a VFO-230. I have the manual and have
read
> it but just don't understand why and when I would want to use it. I
> also need to know how to use it. Could someone please point me to
some
> type of tutorial for the VFO-230. My Icom 737 does not have an
> external VFO and my old Century 21 did not have one either. I could
> really use some help.
>
> Thanks
> Chuck Roth
> KB7OGE
>

19917. TS-520 Power Transformer and VFO assembly

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 19:38:08 UTC
From: vu2jmx
Topic: 19911 Message: 19917

Thanks for the link Mike.

Frankly, the prices look very prohibitive!!

I should perhaps build an external PSU if I don't find the OEM part at a resonable cost.

I'm having other problems as well:

= RX seems OK but absolutely no ALC reading on TX (all bands). I'm able to get about 5W o/p on 80M with a dummy load.
= My Send/Receive switch is broken. Actually only the knob is broken.
= VFO disappears at around "300" on the dial on every band. I reckon the tuning cap needs cleaning.

Right now I'm trying to figure how to remove the VFO assembly.....

Any help on this please ??

73,
Aron.

--- On Thu, 1/29/09, w5rkl <w5rkl@...> wrote:

> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: TS-520 Power Transformer
> To: TS-520_820_530_830@yahoogroups.com
> Received: Thursday, January 29, 2009, 2:01 PM
> Aron,
>
>
> You can either find a parts 520 or have the power
> transformer rewound.
> For rewinding, here's a link you might try.
>
> http://members.tripod.com/tubes_tubes_tubes/transformerrewindingservice/id32.html
>
> I'm sure there are other transformer rewinding
> websites.
>
> Using a power transformer that is not designed for nor
> produces the
> correct AC voltages for the 520 is not a good idea.
>
> 73
> Mike
> W5RKL
>

>
> --- In TS-520_820_530_830@yahoogroups.com,
> "vu2jmx" <vu2jmx@...> wrote:
> >
> > Hi,
> >
> > My TS-520 power trafo is busted; Where can I get a
> replacement, please ?
> >
> > Right now I'm using a trafo from FT-101.
> Unfortunately the HV is
> > insufficient. Secondly, the FT-101 trafo does not have
> the necessary
> > (rather, the right voltages) taps for Final screen,
> Driver plate and
> > Screen. Because of this I'm forced to use dropping
> resistors which are
> > a PIN.
> > The 14VDC is now running on half-wave (single Diode).
> >
> > Anyway, to keep it simple, I feel it is better to get
> the right
> > replacemt trafo - if one is available.
> >
> > Thanks and 73,
> > Aron.
> >
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
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_____
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19918. Re: [TS-520_820_530_830] TS-520 Power Transformer

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 20:35:17 UTC
From: spudcol
Topic: 19911 Message: 19918

Try looking for a shop that repairs and rewinds electric motors in your area, they might be able to help you out.

--- On Thu, 1/29/09, vu2jmx <vu2jmx@...> wrote:

From: vu2jmx <vu2jmx@...>
Subject: [TS-520_820_530_830] TS-520 Power Transformer
To: TS-520_820_530_830@yahoogroups.com
Date: Thursday, January 29, 2009, 1:42 PM

Hi,

My TS-520 power trafo is busted; Where can I get a replacement, please ?

Right now I'm using a trafo from FT-101. Unfortunately the HV is
insufficient. Secondly, the FT-101 trafo does not have the necessary
(rather, the right voltages) taps for Final screen, Driver plate and
Screen. Because of this I'm forced to use dropping resistors which are
a PIN.
The 14VDC is now running on half-wave (single Diode).

Anyway, to keep it simple, I feel it is better to get the right
replacemt trafo - if one is available.

Thanks and 73,
Aron.

[Non-text portions of this message have been removed]

19919. Re: [TS-520_820_530_830] External VFO Help Needed

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 20:34:06 UTC
From: ve3wej gmail
Topic: 19909 Message: 19919

real simple, external vfo, because there are not 2 IN the radio, I use for split dx operation, when you have to listen here, but transmit there (or vice versa)...

read the manual , really, simple to use, virtually the same as the radios vfo, but with selections as to which vfo is in use

VE3WEJ
Dave Garber

10-X # 23465
echolink # 52852
irlp node 2202
email ve3wej@...
----- Original Message -----
From: kb7oge
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, January 29, 2009 1:18 PM
Subject: [TS-520_820_530_830] External VFO Help Needed

Thanks to the help I received here I have My Kenwood TS830S up and working. I also was given a VFO-230. I have the manual and have read it but just don't understand why and when I would want to use it. I also need to know how to use it. Could someone please point me to some type of tutorial for the VFO-230. My Icom 737 does not have an external VFO and my old Century 21 did not have one either. I could really use some help.

Thanks
Chuck Roth
KB7OGE

[Non-text portions of this message have been removed]

19920. Re: [TS-520_820_530_830] LED backfeed?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 20:35:26 UTC
From: ve3wej gmail
Topic: 19898 Message: 19920

make sure it is NOT from an overhead lamp, shining into it..... i did that, thinking power was still applied to a device

VE3WEJ
Dave Garber

10-X # 23465
echolink # 52852
irlp node 2202
email ve3wej@...
----- Original Message -----
From: rickoreair
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, January 29, 2009 6:06 AM
Subject: [TS-520_820_530_830] LED backfeed?

Not an operational issue, but rather one of curiosity that I'd like to fix. This group has really helped get a doa TS-530SP radio back going, and is a very valuable resource, and is very much appreciated.

I have two led's that when the switch that they indicate is off, are on very dim. They operate full brightness when their respective switch is on. The LED's are for the RF ATT switch, and the XIT switch. Not a big issue, but I'd like to know why.

I don't know where to begin checking. Thanks in advance for any advice.

Rick WB4BSP

[Non-text portions of this message have been removed]

19921. Re: [TS-520_820_530_830] TS-520 Power Transformer and VFO assembly

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 21:08:00 UTC
From: Daniel TOESCA
Topic: 19911 Message: 19921

Hi Aron,

There is one sale ending in less than a day for a complete - almost - set in
the UK :

http://cgi.ebay.co.uk/Kenwood-TS520-SE-for-Spares_W0QQitemZ260352394338QQcmdZViewItemQQptZ
UK_ConsumerElectronics_SpecialistRadioEquipment_SM?hash=item260352394338&_trksid=p3911.c0.
m14&_trkparms=72%3A1683%7C66%3A2%7C65%3A12%7C39%3A1%7C240%3A1318

Ebay item n# is
260352394338

Good luck !! & 73's de Daniel, ON5PY

2009/1/29, vu2jmx <vu2jmx@...>:
>
> Thanks for the link Mike.
>
> Frankly, the prices look very prohibitive!!
>
> I should perhaps build an external PSU if I don't find the OEM part at a
> resonable cost.
>
> I'm having other problems as well:
>
> = RX seems OK but absolutely no ALC reading on TX (all bands). I'm able to
> get about 5W o/p on 80M with a dummy load.
> = My Send/Receive switch is broken. Actually only the knob is broken.
> = VFO disappears at around "300" on the dial on every band. I reckon the
> tuning cap needs cleaning.
>
> Right now I'm trying to figure how to remove the VFO assembly.....
>
> Any help on this please ??
>
> 73,
> Aron.
>
> --- On Thu, 1/29/09, w5rkl <w5rkl@... <w5rkl%40yahoo.com>> wrote:
>
> > From: w5rkl <w5rkl@... <w5rkl%40yahoo.com>>
> > Subject: [TS-520_820_530_830] Re: TS-520 Power Transformer
> > To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> > Received: Thursday, January 29, 2009, 2:01 PM
> > Aron,

> >
> >
> > You can either find a parts 520 or have the power
> > transformer rewound.
> > For rewinding, here's a link you might try.
> >
> >
> http://members.tripod.com/tubes_tubes_tubes/transformerrewindingservice/id32.html
> >
> > I'm sure there are other transformer rewinding
> > websites.
> >
> > Using a power transformer that is not designed for nor
> > produces the
> > correct AC voltages for the 520 is not a good idea.
> >
> > 73
> > Mike
> > W5RKL
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> ,
> > "vu2jmx" <vu2jmx@...> wrote:
> > >
> > > Hi,
> > >
> > > My TS-520 power trafo is busted; Where can I get a
> > replacement, please ?
> > >
> > > Right now I'm using a trafo from FT-101.
> > Unfortunately the HV is
> > > insufficient. Secondly, the FT-101 trafo does not have
> > the necessary
> > > (rather, the right voltages) taps for Final screen,
> > Driver plate and
> > > Screen. Because of this I'm forced to use dropping
> > resistors which are
> > > a PIN.
> > > The 14VDC is now running on half-wave (single Diode).
> > >
> > > Anyway, to keep it simple, I feel it is better to get
> > the right
> > > replacemt trafo - if one is available.
> > >
> > > Thanks and 73,
> > > Aron.
> > >
> >
> >

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>
>

[Non-text portions of this message have been removed]

19922. Re: [TS-520_820_530_830] TS-520 Power Transformer and VFO assembly

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 20:23:55 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 19911 Message: 19922

On Thu, 2009-01-29 at 11:38 -0800, vu2jmx wrote:
> Thanks for the link Mike.
>
> Frankly, the prices look very prohibitive!!
>
> I should perhaps build an external PSU if I don't find the OEM part at
> a resonable cost.

Keep checking eBay.

> I'm having other problems as well:
>
> = RX seems OK but absolutely no ALC reading on TX (all bands). I'm
> able to get about 5W o/p on 80M with a dummy load.

Your power supply is broken. All bets are off.

> = My Send/Receive switch is broken. Actually only the knob is broken.

You might be able to get a spare from whoever you get a trannie from.

> = VFO disappears at around "300" on the dial on every band. I reckon
> the tuning cap needs cleaning.

Seems reasonable. Does it just suddenly cut out? That could be the
plates touching.

> Right now I'm trying to figure how to remove the VFO assembly.....
>
> Any help on this please ??

Grab the TS-520S manual from KG6HAF's site. It's "close enough" for
what you want to do.

You need to be very careful removing the VFO, because the gears and dial
are quite delicate. I started by removing all the knobs and the front
panel, then unscrewing the reduction drive bearing. Then inside the set
you need to remove the fixed channel board, remove the screws that hold
the VFO bracket onto the front panel, and unplug the power and output
lead.

It's very very fiddly, but take your time, do it in a well-lit place and
have some little tubs to hold the screws as you take them out. Make
notes of what goes where, and take photos with a digital camera if
you're not sure of how something lines up. Just be careful and you'll
be okay. It's not as horrible as it looks.

Gordon

19923. TS-520 and DK-520 unit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 21:43:23 UTC
From: Gordon
Topic: 19923 Message: 19923

Does anyone have a picture of where the DK-520 unit mounts on the
TS-520? Or a instruction Manual for installing the DK-520 unit?
I need to build and Mount one for a fellow ham.
Thanks,
Gordon
N6WK

19924. Re: [TS-520_820_530_830] TS-520 Power Transformer and VFO assembly

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 21:02:18 UTC
From: martin
Topic: 19911 Message: 19924

Hi Aron. IIF I remember correctly, remove the 4 allen screws on the front of the VFO assembly, disconnect any wiring and remove the lamps (do not disconnect the wires, remove them from the VFO) and it slides out the front to the radio. Be very carefull if you remove the cover. You must not move any wires, and you must not get any contact cleaner in the board or the plates of the tuning capacitor. If you do, get contact cleaner where it shouldn't be, clean the areas carefully with alcohol and let dry thoroughly before re-assembly. I recommend DeOxit D5 to clean contacts and controls.

And I second the advice others here have given you. Get the transformer re-wound, or find a parts unit.

TTYL

vu2jmx wrote:
> Thanks for the link Mike.
>
> Frankly, the prices look very prohibitive!!
>
> I should perhaps build an external PSU if I don't find the OEM part
> at a resonable cost.
>
> I'm having other problems as well:
>
> = RX seems OK but absolutely no ALC reading on TX (all bands). I'm
> able to get about 5W o/p on 80M with a dummy load. = My
> Send/Receive switch is broken. Actually only the knob is broken. =
> VFO disappears at around "300" on the dial on every band. I reckon
> the tuning cap needs cleaning.
>
> Right now I'm trying to figure how to remove the VFO assembly.....
>
> Any help on this please ??
>
> 73, Aron.
>
>
>
> --- On Thu, 1/29/09, w5rkl <w5rkl@...> wrote:
>
>> From: w5rkl <w5rkl@...> Subject: [TS-520_820_530_830] Re:
>> TS-520 Power Transformer To: TS-520_820_530_830@yahoogroups.com
>> Received: Thursday, January 29, 2009, 2:01 PM Aron,

>>
>>
>> You can either find a parts 520 or have the power transformer
>> rewound. For rewinding, here's a link you might try.
>>
>> http://members.tripod.com/tubes_tubes_tubes/transformerrewindingservice/id32.html
>>
>>
>> I'm sure there are other transformer rewinding websites.
>>
>> Using a power transformer that is not designed for nor produces
>> the correct AC voltages for the 520 is not a good idea.
>>
>> 73 Mike W5RKL
>>
>>
>> --- In TS-520_820_530_830@yahoogroups.com, "vu2jmx" <vu2jmx@...>
>> wrote:
>>> Hi,
>>>
>>> My TS-520 power trafo is busted; Where can I get a
>> replacement, please ?
>>> Right now I'm using a trafo from FT-101.
>> Unfortunately the HV is
>>> insufficient. Secondly, the FT-101 trafo does not have
>> the necessary
>>> (rather, the right voltages) taps for Final screen,
>> Driver plate and
>>> Screen. Because of this I'm forced to use dropping
>> resistors which are
>>> a PIN. The 14VDC is now running on half-wave (single Diode).
>>>
>>> Anyway, to keep it simple, I feel it is better to get
>> the right
>>> replacemt trafo - if one is available.
>>>
>>> Thanks and 73, Aron.
>>>
>>
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> http://mail.yahoo.ca
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

19925. Re:TS-520 Power Transformer and VFO assembly

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 21:59:02 UTC
From: vu2jmx
Topic: 19911 Message: 19925

Thanks Gordon for the detailed steps; will try it out tonight.

Aron.

--- On Thu, 1/29/09, Gordon JC Pearce MM3YEQ <gordon@...> wrote:

> From: Gordon JC Pearce MM3YEQ <gordon@...>
> Subject: Re: [TS-520_820_530_830] TS-520 Power Transformer and VFO assembly
> To: TS-520_820_530_830@yahoogroups.com
> Received: Thursday, January 29, 2009, 3:23 PM
> On Thu, 2009-01-29 at 11:38 -0800, vu2jmx wrote:
> > Thanks for the link Mike.
> >
> > Frankly, the prices look very prohibitive!!
> >
> > I should perhaps build an external PSU if I don't
> find the OEM part at
> > a resonable cost.
>
> Keep checking eBay.
>
> > I'm having other problems as well:
> >
> > = RX seems OK but absolutely no ALC reading on TX (all
> bands). I'm
> > able to get about 5W o/p on 80M with a dummy load.
>
> Your power supply is broken. All bets are off.
>
> > = My Send/Receive switch is broken. Actually only the
> knob is broken.
>
> You might be able to get a spare from whoever you get a
> trannie from.
>
> > = VFO disappears at around "300" on the dial
> on every band. I reckon
> > the tuning cap needs cleaning.
>
> Seems reasonable. Does it just suddenly cut out? That
> could be the
> plates touching.
>
> > Right now I'm trying to figure how to remove the
> VFO assembly.....
> >

> > Any help on this please ??
>
> Grab the TS-520S manual from KG6HAF's site. It's
> "close enough" for
> what you want to do.
>
> You need to be very careful removing the VFO, because the
> gears and dial
> are quite delicate. I started by removing all the knobs
> and the front
> panel, then unscrewing the reduction drive bearing. Then
> inside the set
> you need to remove the fixed channel board, remove the
> screws that hold
> the VFO bracket onto the front panel, and unplug the power
> and output
> lead.
>
> It's very very fiddly, but take your time, do it in a
> well-lit place and
> have some little tubs to hold the screws as you take them
> out. Make
> notes of what goes where, and take photos with a digital
> camera if
> you're not sure of how something lines up. Just be
> careful and you'll
> be okay. It's not as horrible as it looks.
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> Gordon
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free at http://mail.yahoo.ca

19926. Re: LED backfeed?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 22:27:44 UTC
From: rickoreair
Topic: 19898 Message: 19926

I checked, Dave, and they are just dim. The XIT being very dim, but the RF ATT light is fairly bright, and just gets brighter when the switch is "on".

--- In TS-520_820_530_830@yahoogroups.com, "ve3wej gmail" <ve3wej@...> wrote:
>
> make sure it is NOT from an overhead lamp, shining into it........
i did that, thinking power was still applied to a device
>
> VE3WEJ
> Dave Garber
>
> 10-X # 23465
> echolink # 52852
> irlp node 2202
> email ve3wej@...
> ----- Original Message -----
> From: rickoreair
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, January 29, 2009 6:06 AM
> Subject: [TS-520_820_530_830] LED backfeed?
>
>
> Not an operational issue, but rather one of curiosity that I'd like to
> fix. This group has really helped get a doa TS-530SP radio back going,
> and is a very valuable resource, and is very much appreciated.
>
> I have two led's that when the switch that they indicate is off, are on
> very dim. They operate full brightness when their respective switch is
> on. The LED's are for the RF ATT switch, and the XIT switch. Not a
> big issue, but I'd like to know why.
>
> I don't know where to begin checking. Thanks in advance for any advice.
>
> Rick WB4BSP
>
>
>

>
>
> [Non-text portions of this message have been removed]
>

19927. Re:Power Transformer and VFO assembly

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 22:13:38 UTC
From: vu2jmx
Topic: 19911 Message: 19927

Thanks Daniel; I'd seen this ad a while ago but because of shipping charges/ delay I dropped it.
I'll see if I can get something closer. US/ Canada is OK.

In fact this e-bay ad actually fits my requirement well, but....

73,
Aron.

--- On Thu, 1/29/09, Daniel TOESCA <ON5PY1967@...> wrote:

> From: Daniel TOESCA <ON5PY1967@...>
> Subject: Re: [TS-520_820_530_830] TS-520 Power Transformer and VFO assembly
> To: TS-520_820_530_830@yahoogroups.com
> Received: Thursday, January 29, 2009, 4:08 PM
> Hi Aron,
>
> There is one sale ending in less than a day for a complete
> - almost - set in
> the UK :
>
> http://cgi.ebay.co.uk/Kenwood-TS520-SE-for-Spares_W0QQitemZ260352394338QQcmdZViewItemQQptZUK_ConsumerElectronics_SpecialistRadioEquipment_SM?hash=item260352394338&_trksid=p3911.c0.m14&_trkparms=72%3A1683%7C66%3A2%7C65%3A12%7C39%3A1%7C240%3A1318
>
> Ebay item n# is
> 260352394338
>
> Good luck !! & 73's de Daniel, ON5PY
>
>
> 2009/1/29, vu2jmx <vu2jmx@...>:
> >
> > Thanks for the link Mike.
> >
> > Frankly, the prices look very prohibitive!!
> >
> > I should perhaps build an external PSU if I don't
> find the OEM part at a
> > resonable cost.
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> > I'm having other problems as well:
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> > = RX seems OK but absolutely no ALC reading on TX (all
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> > get about 5W o/p on 80M with a dummy load.

> > = My Send/Receive switch is broken. Actually only the
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> > = VFO disappears at around "300" on the dial
> on every band. I reckon the
> > tuning cap needs cleaning.
> >
> > Right now I'm trying to figure how to remove the
> VFO assembly.....
> >
> > Any help on this please ??
> >
> > 73,
> > Aron.
> >
> > --- On Thu, 1/29/09, w5rkl <w5rkl@...
> <w5rkl%40yahoo.com>> wrote:
> >
> > > From: w5rkl <w5rkl@...
> <w5rkl%40yahoo.com>>
> > > Subject: [TS-520_820_530_830] Re: TS-520 Power
> Transformer
> > > To:
> TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> > > Received: Thursday, January 29, 2009, 2:01 PM
> > > Aron,
> > > >
> > > >
> > > You can either find a parts 520 or have the power
> > > transformer rewound.
> > > For rewinding, here's a link you might try.
> > > >
> > > >
> > >
> > http://members.tripod.com/tubes_tubes_tubes/transformerrewindingservice/id32.html
> > > >
> > > I'm sure there are other transformer
> rewinding
> > > websites.
> > > >
> > > Using a power transformer that is not designed
> for nor
> > > produces the
> > > correct AC voltages for the 520 is not a good
> idea.
> > > >
> > > 73
> > > Mike
> > > W5RKL
> > > >
> > > >

> > > --- In
> TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> > ,
> > > "vu2jmx" <vu2jmx@...> wrote:
> > > >
> > > > Hi,
> > > >
> > > > My TS-520 power trafo is busted; Where can I
> get a
> > > replacement, please ?
> > > >
> > > > Right now I'm using a trafo from FT-101.
> > > Unfortunately the HV is
> > > > insufficient. Secondly, the FT-101 trafo
> does not have
> > > the necessary
> > > > (rather, the right voltages) taps for Final
> screen,
> > > Driver plate and
> > > > Screen. Because of this I'm forced to
> use dropping
> > > resistors which are
> > > > a PIN.
> > > > The 14VDC is now running on half-wave
> (single Diode).
> > > >
> > > > Anyway, to keep it simple, I feel it is
> better to get
> > > the right
> > > > replacemt trafo - if one is available.
> > > >
> > > > Thanks and 73,
> > > > Aron.
> > > >
> > >
> > >
> > >
> > > ------------------------------------
> > >
> > > Yahoo! Groups Links
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> > ____
> > Be smarter than spam. See how smart SpamGuard is at
> giving junk email the
> > boot with the All-new Yahoo! Mail. Click on Options in
> Mail and switch to

> > New Mail today or register for free at
> http://mail.yahoo.ca
> >
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>
>
> [Non-text portions of this message have been removed]
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

____
Instant Messaging, free SMS, sharing photos and more... Try the new Yahoo! Canada Messenger
at http://ca.beta.messenger.yahoo.com/

19928. Re:TS-520 Power Transformer and VFO assembly

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 22:18:05 UTC
From: vu2jmx
Topic: 19911 Message: 19928

Thanks Martin.

We have a couple of Flee-market deals coming up in the next week or two; I'll try my luck there for the Trafo.
Meanwhile I'll repair the VFO - going QRT @ 300 and also try to align the driver/final.

73,
Aron.

--- On Thu, 1/29/09, martin <kb0hae@...> wrote:

> From: martin <kb0hae@...>
> Subject: Re: [TS-520_820_530_830] TS-520 Power Transformer and VFO assembly
> To: TS-520_820_530_830@yahoogroups.com
> Received: Thursday, January 29, 2009, 4:02 PM
> Hi Aron. IIF I remember correctly, remove the 4 allen
> screws on the
> front of the VFO assembly, disconnect any wiring and remove
> the lamps
> (do not disconnect the wires, remove them from the VFO) and
> it slides
> out the front to the radio. Be very carefull if you remove
> the cover.
> You must not move any wires, and you must not get any
> contact
> cleaner in the board or the plates of the tuning capacitor.
> If you
> do, get contact cleaner where it shouldn't be, clean
> the areas
> carefully with alcohol and let dry thoroughly before
> re-assembly. I
> recommend DeOxit D5 to clean contacts and controls.
>
> And I second the advice others here have given you. Get
> the
> transformer re-wound, or find a parts unit.
>
> TTYL
>
> vu2jmx wrote:
> > Thanks for the link Mike.
> >
> > Frankly, the prices look very prohibitive!!
> >
> > I should perhaps build an external PSU if I don't
> find the OEM part

> > at a resonable cost.
> >
> > I'm having other problems as well:
> >
> > = RX seems OK but absolutely no ALC reading on TX (all
> bands). I'm
> > able to get about 5W o/p on 80M with a dummy load. =
> My
> > Send/Receive switch is broken. Actually only the knob
> is broken. =
> > VFO disappears at around "300" on the dial
> on every band. I reckon
> > the tuning cap needs cleaning.
> >
> > Right now I'm trying to figure how to remove the
> VFO assembly.....
> >
> > Any help on this please ??
> >
> > 73, Aron.
> >
> >
> >
> > --- On Thu, 1/29/09, w5rkl <w5rkl@...>
> wrote:
> >
> >> From: w5rkl <w5rkl@...> Subject:
> [TS-520_820_530_830] Re:
> >> TS-520 Power Transformer To:
> TS-520_820_530_830@yahoogroups.com
> >> Received: Thursday, January 29, 2009, 2:01 PM
> Aron,
> >>
> >>
> >> You can either find a parts 520 or have the power
> transformer
> >> rewound. For rewinding, here's a link you
> might try.
> >>
> >>
> http://members.tripod.com/tubes_tubes_tubes/transformerrewindingservice/id32.html
> >>
> >>
> >> I'm sure there are other transformer rewinding
> websites.
> >>
> >> Using a power transformer that is not designed for
> nor produces
> >> the correct AC voltages for the 520 is not a good
> idea.

> >>
> >> 73 Mike W5RKL
> >>
> >>
> >> --- In TS-520_820_530_830@yahoogroups.com,
> "vu2jmx" <vu2jmx@...>
> >> wrote:
> >>> Hi,
> >>>
> >>> My TS-520 power trafo is busted; Where can I
> get a
> >> replacement, please ?
> >>> Right now I'm using a trafo from FT-101.
> >> Unfortunately the HV is
> >>> insufficient. Secondly, the FT-101 trafo does
> not have
> >> the necessary
> >>> (rather, the right voltages) taps for Final
> screen,
> >> Driver plate and
> >>> Screen. Because of this I'm forced to use
> dropping
> >> resistors which are
> >>> a PIN. The 14VDC is now running on half-wave
> (single Diode).
> >>>
> >>> Anyway, to keep it simple, I feel it is better
> to get
> >> the right
> >>> replacemt trafo - if one is available.
> >>>
> >>> Thanks and 73, Aron.
> >>>
> >>
> >>
> >> ------------------------------------
> >>
> >> Yahoo! Groups Links
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> ~~~~~~
>
> > Be smarter than spam. See how smart SpamGuard is at
> giving junk
> > email the boot with the All-new Yahoo! Mail. Click on
> Options in
> > Mail and switch to New Mail today or register for free

> at
> > http://mail.yahoo.ca
> >
>
> --
> CUL8R
>
> KBOHAE kb0hae@... Martin Campbell
>
> A Satisfied Sidux Linux user! To get Sidux go to:
> www.sidux.com/index.html
> "Protect your digital freedom and privacy, eliminate
> DRM, learn more
> at http://www.defectivebydesign.org/what_is_drm"
>
> ------------------------------------
>
> Yahoo! Groups Links
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http://www.flickr.com/gift/

19929. Re:TS-520 Power Transformer and VFO assembly

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 23:05:31 UTC
From: w5rkl
Topic: 19911 Message: 19929

"absolutely no ALC reading on TX (all bands). I'm able to get about 5W o/p on 80M with a dummy load."

At 5 watts output, regardless of the band or mode, you won't see any ALC. ALC is produced ONLY when the final tube grids are driven "positive" by the RF signal from the driver. When the final tube grids are driven positive, grid current flows which causes ALC to be produced and at 5 watts you won't see any ALC. It takes a lot more power than 5 watts to create ALC in the 520's final amplifier.

"VFO disappears at around "300" on the dial on every band. I reckon the tuning cap needs cleaning"

I don't believe the VFO problem is related to dirt in the VFO capacitor or capacitor plates shorting unless the VFO was physically damaged by a previous owner. I believe the VFO problem is a voltage problem. You don't have to remove the VFO to clean the VFO capacitor to frame connection, only the small panel on the side.

Since your original transformer is bad and the replacement transformer you are using does not provide all of the correct voltages, I do not recommend removing or adjusting anything until you get the correct transformer installed. I recommend finding a 520 parts radio with a good power transformer.

73
Mike
W5RKL

19930. Re:TS-520 Power Transformer and VFO assembly

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 23:10:14 UTC
From: Gordon
Topic: 19911 Message: 19930

Check with Bob, KE5FTF. He has loads of Kenwood parts.
I am sure he has a transformer that is for the 520.

If you need his Email, contact me off list and I will send it to you.
73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, vu2jmx <vu2jmx@...> wrote:
>
> Thanks Martin.
>
> We have a couple of Flee-market deals coming up in the next week or
two; I'll try my luck there for the Trafo.
> Meanwhile I'll repair the VFO - going QRT @ 300 and also try to
align the driver/final.
>
> 73,
> Aron.
>
>
> --- On Thu, 1/29/09, martin <kb0hae@...> wrote:
>
> > From: martin <kb0hae@...>
> > Subject: Re: [TS-520_820_530_830] TS-520 Power Transformer and VFO
assembly
> > To: TS-520_820_530_830@yahoogroups.com
> > Received: Thursday, January 29, 2009, 4:02 PM
> > Hi Aron. IIF I remember correctly, remove the 4 allen
> > screws on the
> > front of the VFO assembly, disconnect any wiring and remove
> > the lamps
> > (do not disconnect the wires, remove them from the VFO) and
> > it slides
> > out the front to the radio. Be very carefull if you remove
> > the cover.
> > You must not move any wires, and you must not get any
> > contact
> > cleaner in the board or the plates of the tuning capacitor.
> > If you
> > do, get contact cleaner where it shouldn't be, clean
> > the areas
> > carefully with alcohol and let dry thoroughly before
> > re-assembly. I
> > recommend DeOxit D5 to clean contacts and controls.

> >
> > And I second the advice others here have given you. Get
> > the
> > transformer re-wound, or find a parts unit.
> >
> > TTYL
> >
> > vu2jmx wrote:
> > > Thanks for the link Mike.
> > >
> > > Frankly, the prices look very prohibitive!!
> > >
> > > I should perhaps build an external PSU if I don't
> > find the OEM part
> > > at a resonable cost.
> > >
> > > I'm having other problems as well:
> > >
> > > = RX seems OK but absolutely no ALC reading on TX (all
> > bands). I'm
> > > able to get about 5W o/p on 80M with a dummy load. =
> > My
> > > Send/Receive switch is broken. Actually only the knob
> > is broken. =
> > > VFO disappears at around "300" on the dial
> > on every band. I reckon
> > > the tuning cap needs cleaning.
> > >
> > > Right now I'm trying to figure how to remove the
> > VFO assembly.....
> > >
> > > Any help on this please ??
> > >
> > > 73, Aron.
> > >
> > >
> > >
> > > --- On Thu, 1/29/09, w5rkl <w5rkl@...>
> > wrote:
> > >
> > >> From: w5rkl <w5rkl@...> Subject:
> > [TS-520_820_530_830] Re:
> > >> TS-520 Power Transformer To:
> > TS-520_820_530_830@yahoogroups.com
> > >> Received: Thursday, January 29, 2009, 2:01 PM
> > Aron,
> > >>
> > >>
> > >> You can either find a parts 520 or have the power
> > transformer

> > >> rewound. For rewinding, here's a link you
> > might try.
> > >>
> > >>
> >
http://members.tripod.com/tubes_tubes_tubes/transformerrewindingservice/id32.html
> > >>
> > >>
> > >> I'm sure there are other transformer rewinding
> > websites.
> > >>
> > >> Using a power transformer that is not designed for
> > nor produces
> > >> the correct AC voltages for the 520 is not a good
> > idea.
> > >>
> > >> 73 Mike W5RKL
> > >>
> > >>
> > >> --- In TS-520_820_530_830@yahoogroups.com,
> > "vu2jmx" <vu2jmx@>
> > >> wrote:
> > >>> Hi,
> > >>>
> > >>> My TS-520 power trafo is busted; Where can I
> > get a
> > >> replacement, please ?
> > >>> Right now I'm using a trafo from FT-101.
> > >> Unfortunately the HV is
> > >>> insufficient. Secondly, the FT-101 trafo does
> > not have
> > >> the necessary
> > >>> (rather, the right voltages) taps for Final
> > screen,
> > >> Driver plate and
> > >>> Screen. Because of this I'm forced to use
> > dropping
> > >> resistors which are
> > >>> a PIN. The 14VDC is now running on half-wave
> > (single Diode).
> > >>>
> > >>> Anyway, to keep it simple, I feel it is better
> > to get
> > >> the right
> > >>> replacemt trafo - if one is available.
> > >>>
> > >>> Thanks and 73, Aron.
> > >>>
> > >>
> > >>

> > >> ------------------------------------
> > >>
> > >> Yahoo! Groups Links
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> >
> > > Be smarter than spam. See how smart SpamGuard is at
> > giving junk
> > > email the boot with the All-new Yahoo! Mail. Click on
> > Options in
> > > Mail and switch to New Mail today or register for free
> > at
> > > http://mail.yahoo.ca
> > >
> >
> > --
> > CUL8R
> >
> > KBOHAE kb0hae@... Martin Campbell
> >
> > A Satisfied Sidux Linux user! To get Sidux go to:
> > www.sidux.com/index.html
> > "Protect your digital freedom and privacy, eliminate
> > DRM, learn more
> > at http://www.defectivebydesign.org/what_is_drm"
> >
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> >
> > Yahoo! Groups Links
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> ____
> Looking for the perfect gift? Give the gift of Flickr!
>
> http://www.flickr.com/gift/
>

19931. Re:TS-520 Power Transformer and VFO assembly

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 23:38:59 UTC
From: vu2jmx
Topic: 19911 Message: 19931

Sounds like a "sound" advice.

I'll look around for the Trafo.

73,
Aron.

--- On Thu, 1/29/09, w5rkl <w5rkl@...> wrote:

> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re:TS-520 Power Transformer and VFO assembly
> To: TS-520_820_530_830@yahoogroups.com
> Received: Thursday, January 29, 2009, 6:05 PM
> "absolutely no ALC reading on TX (all bands). I'm
> able to get about 5W
> o/p on 80M with a dummy load."
>
> At 5 watts output, regardless of the band or mode, you
> won't see any
> ALC. ALC is produced ONLY when the final tube grids are
> driven
> "positive" by the RF signal from the driver. When
> the final tube grids
> are driven positive, grid current flows which causes ALC to
> be
> produced and at 5 watts you won't see any ALC. It takes
> a lot more
> power than 5 watts to create ALC in the 520's final
> amplifier.
>
> "VFO disappears at around "300" on the dial
> on every band. I reckon
> the tuning cap needs cleaning"
>
> I don't believe the VFO problem is related to dirt in
> the VFO
> capacitor or capacitor plates shorting unless the VFO was
> physically
> damaged by a previous owner. I believe the VFO problem is a
> voltage
> problem. You don't have to remove the VFO to clean the
> VFO capacitor
> to frame connection, only the small panel on the side.
>
> Since your original transformer is bad and the replacement
> transformer

> you are using does not provide all of the correct voltages,
> I do not
> recommend removing or adjusting anything until you get the
> correct
> transformer installed. I recommend finding a 520 parts
> radio with a
> good power transformer.
>
> 73
> Mike
> W5RKL
>
>
>
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>
> Yahoo! Groups Links
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>

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Instant Messaging, free SMS, sharing photos and more... Try the new Yahoo! Canada Messenger at http://ca.beta.messenger.yahoo.com/

19932. Led's or no Led's

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-29 23:29:55 UTC
From: Paul M Tas
Topic: 19932 Message: 19932

Hello all

I have a TS-700 and my lights that comes standerd with the trans. is giveing me headach's and I thought that I might just replace it with led's. Now I thought if I do the 700 why not do the 520. Now my question is would it be better to have led's than normal light bullb's in????

Gr Paul M Tas (PD0TAS .--. -.. ----- - - ..)
HF=TS-520+AT-200+SP-520
VHF=TS-700+VOX-3

No virus found in this outgoing message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.15/1922 - Release Date: 1/28/2009 7:24 PM

[Non-text portions of this message have been removed]

19933. Re: [TS-520_820_530_830] 6146B, 6146W, and the hybrids questions

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-30 01:59:50 UTC
From: Ron Pearson
Topic: 19848 Message: 19933

The way I understand it from what I reseached is that the 6146B can be replaced by the 6146A but the power out will drop to about 90W. However, the 6146A can not be replaced by the 6146B. I am using 6146A's in my TS-520 and it does, in fact, put out 90W.
 Ron/W5RCP

100% CW, 100% of the Time
Fists#6259 & cc#1775, ARS#1799, FP#1047, NAQCC#483, SKCC#2922,
QRP-ARCI#13328, Houston QRP Club, HQRP Fists#11025, KCARC/Abilene, Zombie#839

From: Gordon JC Pearce MM3YEQ <gordon@...t>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, January 29, 2009 7:08:31 AM
Subject: Re: [TS-520_820_530_830] 6146B, 6146W, and the hybrids questions

On Mon, 2009-01-26 at 21:52 +0000, Jeramy Ross wrote:
> Ok. I realize this has all been hashed out in the past in both the
> Kenwood hybrid circles and the wider glowbug world;

Just to return to this for a moment - the original manual that came with
my TS-520 says it uses 6146As but the PDF available on KG6HAF's site
says it uses S2001As or 6146Bs.

Which is it? I'm using NOS 6146As at the moment and it seems to work.
It wasn't particularly easy to neutralise, though.

Gordon

Yahoo! Groups Links

[Non-text portions of this message have been removed]

19934. Re: [TS-520_820_530_830] Re: LED backfeed?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-30 03:06:40 UTC
From: ve3wej gmail
Topic: 19898 Message: 19934

also check to see if any sheilding (foam??) around the inside where the led's are located have dis-lodged. lights from vfo dial may be shing from the inside through the led lens

VE3WEJ
Dave Garber

10-X # 23465
echolink # 52852
irlp node 2202
email ve3wej@...
----- Original Message -----
From: rickoreair
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, January 29, 2009 5:27 PM
Subject: [TS-520_820_530_830] Re: LED backfeed?

I checked, Dave, and they are just dim. The XIT being very dim, but the RF ATT light is fairly bright, and just gets brighter when the switch is "on".

--- In TS-520_820_530_830@yahoogroups.com, "ve3wej gmail" <ve3wej@...> wrote:
>
> make sure it is NOT from an overhead lamp, shining into it.....
i did that, thinking power was still applied to a device
>
> VE3WEJ
> Dave Garber
>
> 10-X # 23465
> echolink # 52852
> irlp node 2202
> email ve3wej@...
> ----- Original Message -----
> From: rickoreair
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, January 29, 2009 6:06 AM
> Subject: [TS-520_820_530_830] LED backfeed?
>
>
> Not an operational issue, but rather one of curiosity that I'd like to
> fix. This group has really helped get a doa TS-530SP radio back going,
> and is a very valuable resource, and is very much appreciated.
>

> I have two led's that when the switch that they indicate is off,
are on
> very dim. They operate full brightness when their respective
switch is
> on. The LED's are for the RF ATT switch, and the XIT switch. Not
a
> big issue, but I'd like to know why.
>
> I don't know where to begin checking. Thanks in advance for any
advice.
>
> Rick WB4BSP
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

19935. Re: [TS-520_820_530_830] Led's or no Led's

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-30 03:07:44 UTC
From: ve3wej gmail
Topic: 19932 Message: 19935

the bulbs lasted 30 years, replace with bulbs, then no mod is needed , and radio is kept near original....

my opinion... led's are overrated!!!!!!!!!!

VE3WEJ
Dave Garber

10-X # 23465
echolink # 52852
irlp node 2202
email ve3wej@...
----- Original Message -----
From: Paul M Tas
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, January 29, 2009 6:29 PM
Subject: [TS-520_820_530_830] Led's or no Led's

Hello all

I have a TS-700 and my lights that comes standerd with the trans. is giveing me headach's and I thought that I might just replace it with led's. Now I thought if I do the 700 why not do the 520. Now my question is would it be better to have led's than normal light bullb's in????

Gr Paul M Tas (PD0TAS .--. -.. ----- - - ..)
HF=TS-520+AT-200+SP-520
VHF=TS-700+VOX-3

No virus found in this outgoing message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.15/1922 - Release Date: 1/28/2009 7:24 PM

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

19936. Re: TS-520 and DK-520 unit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-30 12:02:29 UTC
From: kc2pcr
Topic: 19923 Message: 19936

Hi Gordon, I have some reference material for the DK-520.

DK-520 assembly & service manual, with a very nice image of the
complete DK kit:
http://www.cnyara.com/_manuals/Kenwood/DK-520.pdf

DG-5 operating:
http://www.cnyara.com/_manuals/Kenwood/DG5_User.pdf

DG-5 service:
http://www.cnyara.com/_manuals/Kenwood/DG5_Service.pdf

DG-5 Schematic:
http://www.cnyara.com/_manuals/Kenwood/DG-5_Schematic.pdf

additional reference material for other radios:
http://www.cnyara.com/_manuals

73 Doug kc2pcr

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Does anyone have a picture of where the DK-520 unit mounts on the
> TS-520? Or a instruction Manual for installing the DK-520 unit?
> I need to build and Mount one for a fellow ham.
> Thanks,
> Gordon
> N6WK
>

19937. Re: [TS-520_820_530_830] Led's or no Led's

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-30 14:03:01 UTC
From: martin
Topic: 19932 Message: 19937

Hi Dave. While LEDs may not (yet) be able to replace all types of bulbs, for some things they are better. Flashlights are a good example. The LEDs used in flashlights are just as bright as bulbs, and their current requirements are far less.

I haven't replaced any radio dial or meter lights with LEDs, but I would think about it if it became necessary to replace them.

TTYL

ve3wej gmail wrote:
> the bulbs lasted 30 years, replace with bulbs, then no mod is
> needed , and radio is kept near original....
>
>
> my opinion... led's are overrated!!!!!!!!!!
>
>
> VE3WEJ Dave Garber
>
> 10-X # 23465 echolink # 52852 irlp node 2202 email ve3wej@...
> ----- Original Message ----- From: Paul M Tas To:
> TS-520_820_530_830@yahoogroups.com Sent: Thursday, January 29, 2009
> 6:29 PM Subject: [TS-520_820_530_830] Led's or no Led's
>
>
> Hello all
>
> I have a TS-700 and my lights that comes standerd with the trans.
> is giveing me headach's and I thought that I might just replace it
> with led's. Now I thought if I do the 700 why not do the 520. Now
> my question is would it be better to have led's than normal light
> bullb's in????
>
> Gr Paul M Tas (PD0TAS .--. -.. ----- - - ..)
> HF=TS-520+AT-200+SP-520 VHF=TS-700+VOX-3 ----------
>
> No virus found in this outgoing message. Checked by AVG -
> http://www.avg.com Version: 8.0.176 / Virus Database:
> 270.10.15/1922 - Release Date: 1/28/2009 7:24 PM
>
> [Non-text portions of this message have been removed]
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>
> [Non-text portions of this message have been removed]
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>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

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at http://www.defectivebydesign.org/what_is_drm"

19938. Re: [TS-520_820_530_830] Re: TS-520 and DK-520 unit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-30 17:02:38 UTC
From: N6WK
Topic: 19923 Message: 19938

THANK YOU Doug,
That is exactly the info I was searching for.
I really appreciate the help.
73,
Gordon
N6WK

kc2pcr wrote:
>
> Hi Gordon, I have some reference material for the DK-520.
>
> DK-520 assembly & service manual, with a very nice image of the
> complete DK kit:
> http://www.cnyara.com/_manuals/Kenwood/DK-520.pdf
> <http://www.cnyara.com/_manuals/Kenwood/DK-520.pdf>
>
> DG-5 operating:
> http://www.cnyara.com/_manuals/Kenwood/DG5_User.pdf
> <http://www.cnyara.com/_manuals/Kenwood/DG5_User.pdf>
>
> DG-5 service:
> http://www.cnyara.com/_manuals/Kenwood/DG5_Service.pdf
> <http://www.cnyara.com/_manuals/Kenwood/DG5_Service.pdf>
>
> DG-5 Schematic:
> http://www.cnyara.com/_manuals/Kenwood/DG-5_Schematic.pdf
> <http://www.cnyara.com/_manuals/Kenwood/DG-5_Schematic.pdf>
>
> additional reference material for other radios:
> http://www.cnyara.com/_manuals <http://www.cnyara.com/_manuals>
>
> *73* Doug kc2pcr
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Gordon" <n6wk@...> wrote:
> >
> > Does anyone have a picture of where the DK-520 unit mounts on the
> > TS-520? Or a instruction Manual for installing the DK-520 unit?
> > I need to build and Mount one for a fellow ham.
> > Thanks,
> > Gordon
> > N6WK
> >
>
>

> Messages in this topic
> <http://groups.yahoo.com/group/TS-520_820_530_830/message/19923;_ylc=X3oDMTM2cWtzMGNrBF9TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzE5OTM2BHNlYwNmdHIEc2xrA3Z0cGMEc3RpbWUDMTIzMzMxNjk1MgR0cGNJZAMxOTkyMw-->
> (2)
> <http://groups.yahoo.com/group/TS-520_820_530_830/post;_ylc=X3oDMTJxdGExMnRyBF9TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzE5OTM2BHNlYwNmdHIEc2xrA3JwbHkEc3RpbWUDMTIzMzMxNjk1Mg--?act=reply&messageNum=19936>

19939. Re: Led's or no Led's

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-30 17:22:59 UTC
From: Brian Hall
Topic: 19932 Message: 19939

I've replaced lamps w/ LEDs in my rigs (440S. 520S, 820S, 830S). I found a batch of "soft white" LEDs that match the warm glow of the original lamps. The ones I use are rated at 30mA, so I put a 470 Ohm resistor is series w/ the LED.

As far as I'm concerned, this is no more difficult than replacing w/ lamps and the LEDs should last forever. I bought a dozen of the LEDs for less than a batch of 5 lamps would have cost me. After replacing the dial lamps on my 820, it was comforting to know it would be the last time doing that. If you use LED's, remember they are polarity sensitive.

Brian AC7NA

--- In TS-520_820_530_830@yahoogroups.com, "Paul M Tas" <paultas@...> wrote:
>
> Hello all
>
> I have a TS-700 and my lights that comes standerd with the trans. is giveing me headach's and I thought that I might just replace it with led's. Now I thought if I do the 700 why not do the 520. Now my question is would it be better to have led's than normal light bullb's in????
>
> Gr Paul M Tas (PD0TAS .--. -.. ----- - - ..)
> HF=TS-520+AT-200+SP-520
> VHF=TS-700+VOX-3
> ----------
>
>
> No virus found in this outgoing message.
> Checked by AVG - http://www.avg.com
> Version: 8.0.176 / Virus Database: 270.10.15/1922 - Release Date: 1/28/2009 7:24 PM
>
>
> [Non-text portions of this message have been removed]
>

19940. Re: 6146B, 6146W, and the hybrids questions

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-30 17:55:08 UTC
From: w5rkl
Topic: 19848 Message: 19940

Morning Ron,

You are correct, the 6146A can be substituted for the 6146B. In keeping with the 6146 versions, one should NEVER mix a 6146A with a 6146B. The 6146A and the 6146B are different tubes even though they "look" the same.

However, it is acceptable to mix a plain 6146 with a 6146A since the only difference between the plain 6146 and the 6146A is the filament in the "A", the filament is more rugged in the "A".

There is no truth to the myth that simply substituting higher output tubes such as a 6146Bs for lower output tubes such as the 6146 or 6146A, will produce higher output. An amplifier's output is not based solely on the tube's output power rating. There are other factors that determine an amplifier's output power level and cleanliness of the output signal. Factors such as plate voltage, plate current, drive level, biasing, and class of operation all work together to determine the power output of the amplifier.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Ron Pearson <iamw5rcp@...> wrote:
>
> The way I understand it from what I reseached is that the 6146B can be replaced by the 6146A but the power out will drop to about 90W. However, the 6146A can not be replaced by the 6146B. I am using 6146A's in my TS-520 and it does, in fact, put out 90W.
> Ron/W5RCP
>
>
> 100% CW, 100% of the Time
> Fists#6259 & cc#1775, ARS#1799, FP#1047, NAQCC#483, SKCC#2922,
> QRP-ARCI#13328, Houston QRP Club, HQRP Fists#11025, KCARC/Abilene, Zombie#839
>
>
>
>
> _____
> From: Gordon JC Pearce MM3YEQ <gordon@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, January 29, 2009 7:08:31 AM

> Subject: Re: [TS-520_820_530_830] 6146B, 6146W, and the hybrids
questions
>
> On Mon, 2009-01-26 at 21:52 +0000, Jeramy Ross wrote:
> > Ok. I realize this has all been hashed out in the past in both the
> > Kenwood hybrid circles and the wider glowbug world;
>
> Just to return to this for a moment - the original manual that came with
> my TS-520 says it uses 6146As but the PDF available on KG6HAF's site
> says it uses S2001As or 6146Bs.
>
> Which is it? I'm using NOS 6146As at the moment and it seems to work.
> It wasn't particularly easy to neutralise, though.
>
> Gordon
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

19941. Re: [TS-520_820_530_830] Re: Led's or no Led's

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-30 18:04:03 UTC
From: Gary Meyer
Topic: 19932 Message: 19941

Brian,

What # were the LED's and where did you get them?
KC0NPJ Gary

[Non-text portions of this message have been removed]

19942. 3395 Kc CW Filter FS

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-30 23:54:22 UTC
From: jsloss
Topic: 19942 Message: 19942

Kenwood - Trio YG-3395C CW filter for sale. Fits TS-520 series and 820. $59 packed well and shipped in US.

Joe k7mks

[Non-text portions of this message have been removed]

19943. Re: [TS-520_820_530_830] Led's or no Led's

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-30 14:07:52 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 19932 Message: 19943

On Fri, 2009-01-30 at 08:03 -0600, martin wrote:
> Hi Dave. While LEDs may not (yet) be able to replace all types of
> bulbs, for some things they are better. Flashlights are a good
> example. The LEDs used in flashlights are just as bright as bulbs,
> and their current requirements are far less.
>
> I haven't replaced any radio dial or meter lights with LEDs, but I
> would think about it if it became necessary to replace them.

My local car accessories shop sells replacement car dashboard lamps which are basically a 3mm LED in a plastic blob to fit wedge-base fittings. You get them in a range of colours, including a kind of yellowy-white that's pretty close to incandescent lamps. At about £3 for a pack of two they're not especially cheap, but not much worse than "ordinary" bulbs.

Gordon

19944. TS-520S Service Manual

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-31 12:07:30 UTC
From: w5rkl
Topic: 19944 Message: 19944

A clean copy of the TS-520S Service Manual can be downloaded at the following link.

http://www.radioamateur.eu/schemi/TS520S_serv.pdf

73
Mike
W5RKL

19945. Re: [TS-520_820_530_830] Re: Led's or no Led's

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-31 15:52:42 UTC
From: Daniel TOESCA
Topic: 19932 Message: 19945

Don't overlook the Xmas-tree types !!!!

Usually around $3 for a set of 12, even less just after Xmas.

Daniel, ON5PY

2009/1/30, Gary Meyer <meyer@...>:
>
> Brian,
>
> What # were the LED's and where did you get them?
> KC0NPJ Gary
>
>
> [Non-text portions of this message have been removed]
>
>
>

[Non-text portions of this message have been removed]

19946. Re: [TS-520_820_530_830] Re: Led's or no Led's

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-31 16:28:58 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 19932 Message: 19946

On Sat, 2009-01-31 at 16:52 +0100, Daniel TOESCA wrote:
> Don't overlook the Xmas-tree types !!!!
>
> Usually around $3 for a set of 12, even less just after Xmas.
>
> Daniel, ON5PY

Even less just before Christmas, too. You get them in sets of 19 from the kerbside recycling.

Gordon

19947. TS-820S AF-AVR board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-31 17:51:35 UTC
From: w5rkl
Topic: 19947 Message: 19947

I have been trying to find out why the 9VDC on the AF-AVR board changes. I have replaced the aging 14A supply filter caps (two 2200ufd at 25VDC) which helped a little but it still changes even after cleaning VR4, plugs/pins AF1 and AF2, and resetting VR4 for 9VDC on AF1 pin 1.

This morning I removed the AF-AVR board (X49-1080-00) and found C19 and R26 missing. It doesn't appear the components were removed by a previous owner but rather a change made at the factory since all of the solder connections are the same, no indication of reheating to remove the components and install the jumper. I could be wrong but...

I tried to find anything that would indicate why C19 and R26 were removed and a jumper installed and I could not find factory tech bulletin or change. So I compared numerous 820/820S AF-AVR schematics. I found "4" schematic, 2 which were the same while the other 2 were different.

Schematic 1 and 2

These schematics do not show C19 and R26. Instead it appears a jumper is connected from the junction of R38 (68 ohm) resistor and Q7's collector to R21.

Schematic 3

This schematic also does not show C19 and R26. Instead it appears a jumper is connected from the junction of R37, R38, and Q7's emitter to R21.

Schematic 4

This schematic clearly shows R26 and C19 without the small jumper.

So, not finding anything from Kenwood (tech bulletin), I wonder which schematic is the most current and correct one?

Any comments?

73
Mike
W5RKL

19948. Re: TS-520 and DK-520 unit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-31 17:52:24 UTC
From: kc2pcr
Topic: 19923 Message: 19948

Hi Gordon,
My pleasure, glad it was of assistance to you!
The ole saying "there is strength in numbers" really rings true with
regard to this group.
I found a few Kenwood Service Bulletins for the DG-5 that may also be
useful:

REPAIR OF RCA PLUGS/JACKS
http://www.qsl.net/bg4aaf/book/kenpic/ASB0025.JPG

REPAIR NOTES
http://www.qsl.net/bg4aaf/book/kenpic/ASB0028A.JPG

THEORY OF OPERATION
http://www.qsl.net/bg4aaf/book/kenpic/ASB0029A.JPG

SERVICE NOTES (PC BOARD SOLDER)
http://www.qsl.net/bg4aaf/book/kenpic/ASB0054A.JPG

--- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@...> wrote:
>
> THANK YOU Doug,
> That is exactly the info I was searching for.
> I really appreciate the help.
> 73,
> Gordon
> N6WK
>

19949. RE: [TS-520_820_530_830] TS-820S AF-AVR board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-31 18:10:15 UTC
From: david welker
Topic: 19947 Message: 19949

FYI My service manual for the Ts-820 does not show any listing for C19 or R26 in the parts list for that board.Good luck. Dave K3SI

To: TS-520_820_530_830@yahoogroups.comFrom: w5rkl@...: Sat, 31 Jan 2009 17:51:35 +0000Subject: [TS-520_820_530_830] TS-820S AF-AVR board

I have been trying to find out why the 9VDC on the AF-AVR boardchanges. I have replaced the aging 14A supply filter caps (two 2200ufdat 25VDC) which helped a little but it still changes even aftercleaning VR4, plugs/pins AF1 and AF2, and resetting VR4 for 9VDC onAF1 pin 1.This morning I removed the AF-AVR board (X49-1080-00) and found C19and R26 missing. It doesn't appear the components were removed by aprevious owner but rather a change made at the factory since all ofthe solder connections are the same, no indication of reheating toremove the components and install the jumper. I could be wrong but...I tried to find anything that would indicate why C19 and R26 wereremoved and a jumper installed and I could not find factory techbulletin or change. So I compared numerous 820/820S AF-AVR schematics.I found "4" schematic, 2 which were the same while the other 2 weredifferent.Schematic 1 and 2These schematics do not show C19 and R26. Instead it appears a jumperis connected from the junction of R38 (68 ohm) resistor and Q7'scollector to R21.Schematic 3This schematic also does not show C19 and R26. Instead it appears ajumper is connected from the junction of R37, R38, and Q7's emitter toR21.Schematic 4This schematic clearly shows R26 and C19 without the small jumper.So, not finding anything from Kenwood (tech bulletin), I wonder whichschematic is the most current and correct one?Any comments?73MikeW5RKL

_____
Hotmail® goes where you go. On a PC, on the Web, on your phone.
http://www.windowslive-hotmail.com/learnmore/versatility.aspx#mobile?ocid=TXT_TAGHM_WL_HM_versatility_121208

[Non-text portions of this message have been removed]

19950. Re: TS-820S AF-AVR board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-01-31 18:56:47 UTC
From: w5rkl
Topic: 19947 Message: 19950

Yep and that's the problem. I have 4 separate AF-AVR schematics, 1 shows C19 and R26 but the other 3 do not. The other 3 schematics show different wiring. One of the schematics has to be the "final" one Kenwood ended up with. Unfortunately, the board labels (X49-1080-00) did not change from one schematic to another. If the last two zeros would change, i.e., 01, 02, 03, then it would make it much easier to determine which schematic is the latest one.

I have seen this kind of schematic issue with other ham gear manuals, especially in Heathkit Circuit Description and full schematics, they are not the same. If one doesn't have the "addendum" that accompanied the original kit, it can lead to confusion as to which component is right.

I suspect the drift problem, once I find out which schematic is the final one Kenwood used, is going to be Q7 on the AF-AVR board.

Anyway, thanks Dave for your comments, it's greatly appreciated.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, david welker <k3si@...> wrote:
>
>
> FYI My service manual for the Ts-820 does not show any listing for C19 or R26 in the parts list for that board.Good luck. Dave K3SI
>
> To: TS-520_820_530_830@...: w5rkl@...: Sat, 31 Jan 2009 17:51:35 +0000Subject: [TS-520_820_530_830] TS-820S AF-AVR board
>
>
>
> I have been trying to find out why the 9VDC on the AF-AVR boardchanges. I have replaced the aging 14A supply filter caps (two 2200ufdat 25VDC) which helped a little but it still changes even aftercleaning VR4, plugs/pins AF1 and AF2, and resetting VR4 for 9VDC onAF1 pin 1.This morning I removed the AF-AVR board (X49-1080-00) and found C19and R26 missing. It doesn't appear the components were removed by aprevious owner but rather a change made at the factory since all ofthe solder connections are the same, no indication of reheating toremove the components and install the jumper. I could be wrong but...I tried to find anything that would indicate why C19 and R26 wereremoved and a jumper installed and I could not find factory techbulletin or change. So I compared numerous 820/820S AF-AVR schematics.I found "4" schematic, 2 which were the same while the

other 2 weredifferent.Schematic 1 and 2These schematics do not show
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schematic also does not show C19 and R26. Instead it appears ajumper
is connected from the junction of R37, R38, and Q7's emitter
toR21.Schematic 4This schematic clearly shows R26 and C19 without the
small jumper.So, not finding anything from Kenwood (tech bulletin), I
wonder whichschematic is the most current and correct one?Any
comments?73MikeW5RKL
>
>
>
>
>
> _____
> Hotmail® goes where you go. On a PC, on the Web, on your phone.
>
http://www.windowslive-hotmail.com/learnmore/versatility.aspx#mobile?ocid=TXT_TAGHM_WL_HM_
versatility_121208

>
> [Non-text portions of this message have been removed]
>

19951. Re: [TS-520_820_530_830] Need 8 pin remote VFO interface cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-01 01:26:39 UTC
From: james eaton
Topic: 19578 Message: 19951

http://www.k4eaa.com/parts.htm
He has a kit to build a VFO cable for $12.50.

Jim
KE5KNH

--- On Tue, 1/6/09, jwsanders2002 <jwsanders2002@...> wrote:

From: jwsanders2002 <jwsanders2002@...>
Subject: [TS-520_820_530_830] Need 8 pin remote VFO interface cable
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, January 6, 2009, 6:36 PM

I am a relatively new ham with a functional Yaesu 857D [do all] mini station and very happy with it. BUT today I purchased a MINT [no marks anywhere] TS-820/VFO-820/ AT-200/MC- 50 listed on my local Craig's list. This makes an elegant but classic station with SO SO much for me to learn. My first question is where can I find a REASONABLY priced 8 pin Remote VFO Interface cable. Searcing the web turns up only an EBay dealer who is asking $44.95 plus shipping. Considering I paid $400 for the whole station I hope someone can help me with a more reasonable source.
Thanks, Jack
N7BBX

[Non-text portions of this message have been removed]

19952. Re: [TS-520_820_530_830] I did it!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-01 16:08:29 UTC
From: John Harp
Topic: 19757 Message: 19952

I just saw your email Angie. I've been backed updo to being very busy here.
Congradulations!! Now go get some more and remember to keep QSO cards for your staion to remind you of these first times when you struggled and succeded.

DE: John-KA3DPW

--- On Wed, 1/21/09, Angelica <arkch1p@...> wrote:

From: Angelica <arkch1p@...>
Subject: [TS-520_820_530_830] I did it!
To: "TS Kenwood" <TS-520_820_530_830@yahoogroups.com>
Date: Wednesday, January 21, 2009, 6:17 PM

I made my first contacts two nights ago on 7178. I also ragchewed on 3953 in Michigan.I was bound and determined to make an HF contact and I did.
Just thought I would share the good news.

Angie KD8HMS

[Non-text portions of this message have been removed]

19953. Re: [TS-520_820_530_830] Need 8 pin remote VFO interface cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-01 16:07:28 UTC
From: ve3wej gmail
Topic: 19578 Message: 19953

the remote cable k4eaa shows on his page for a vfo remote is for the 830 530, not 820 520. my 820 has 9 pin, not 8 pin and they are not din plugs...

VE3WEJ
Dave Garber

10-X # 23465
echolink # 52852
irlp node 2202
email ve3wej@...
----- Original Message -----
From: james eaton
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, January 31, 2009 8:26 PM
Subject: Re: [TS-520_820_530_830] Need 8 pin remote VFO interface cable

http://www.k4eaa.com/parts.htm
He has a kit to build a VFO cable for $12.50.

Jim
KE5KNH

--- On Tue, 1/6/09, jwsanders2002 <jwsanders2002@...> wrote:

From: jwsanders2002 <jwsanders2002@...>
Subject: [TS-520_820_530_830] Need 8 pin remote VFO interface cable
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, January 6, 2009, 6:36 PM

I am a relatively new ham with a functional Yaesu 857D [do all] mini station and very happy with it. BUT today I purchased a MINT [no marks anywhere] TS-820/VFO-820/ AT-200/MC- 50 listed on my local Craig's list. This makes an elegant but classic station with SO SO much for me to learn. My first question is where can I find a REASONABLY priced 8 pin Remote VFO Interface cable. Searcing the web turns up only an EBay dealer who is asking $44.95 plus shipping. Considering I paid $400 for the whole station I hope someone can help me with a more reasonable source.
Thanks, Jack
N7BBX

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

19954. Update Jan-31 - TS-520 Trafo and VFO

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-01 12:57:48 UTC
From: vu2jmx
Topic: 19954 Message: 19954

Hello and thanks to all the OM and OB for all the hints and suggestions.

I was able to fire my TS-520 using a FT-101 trafo - albeit low power.
I don't necessarily advocate this replacement because originality is
lost and quite a few changes have to be made to the voltage doubling
circuitry, screen supply etc.. (also, DC operation will not work).

Specifically to my unique situation, I did it because I picked up my
rig as a "parts" radio, therefore I had nothing to loose. Secondly, an
OEM replacement (or rewinding) would've cost me many times more than
the rig !!

Test results using a dummy load:
80Mtr - 60W CW o/p
40Mtr - 45W CW o/p
20Mtr - 20W CW o/p
15Mtr - very low
10Mtr - very low

VFO assembly was removed, cleaned and o/p adjusted to 0.9 Volts.

Front end MOSFET (Q5) 3SK35 was literally getting carried away after
about 3-5 minutes. Lot of hash. Exact replacement was not available so
I replaced it with what I had in hand - a BF966 (actually a better
spec!)

I have taken pictures of the opened VFO assembly, if anybody is
interested...

I'm still in the process of fine tuning. Will keep you all posted..

Thanks and 73,
Aron.

19955. Re:TS-520 Power Transformer and VFO assembly

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-01 13:06:30 UTC
From: vu2jmx
Topic: 19911 Message: 19955

Thanks Gordon. I sent Bob an e-mail but did not get any reply.
On a side note, somebody on QTH.net is selling the Trafos for $50 plus $25 shipping to Canada but the seller reviews are not satisfactory. I don't want to risk it.

73,
Aron.

--- On Thu, 1/29/09, Gordon <n6wk@...> wrote:

> From: Gordon <n6wk@...>
> Subject: [TS-520_820_530_830] Re:TS-520 Power Transformer and VFO assembly
> To: TS-520_820_530_830@yahoogroups.com
> Received: Thursday, January 29, 2009, 6:10 PM
> Check with Bob, KE5FTF. He has loads of Kenwood parts.
> I am sure he has a transformer that is for the 520.
>
> If you need his Email, contact me off list and I will send
> it to you.
> 73,
> Gordon
> N6WK
>
>
> --- In TS-520_820_530_830@yahoogroups.com, vu2jmx
> <vu2jmx@...> wrote:
> >
> > Thanks Martin.
> >
> > We have a couple of Flee-market deals coming up in the
> next week or
> two; I'll try my luck there for the Trafo.
> > Meanwhile I'll repair the VFO - going QRT @ 300
> and also try to
> align the driver/final.
> >
> > 73,
> > Aron.
> >
> >
> > --- On Thu, 1/29/09, martin <kb0hae@...> wrote:
> >
> > > From: martin <kb0hae@...>
> > > Subject: Re: [TS-520_820_530_830] TS-520 Power
> Transformer and VFO
> assembly
> > > To: TS-520_820_530_830@yahoogroups.com

> > > Received: Thursday, January 29, 2009, 4:02 PM
> > > Hi Aron. IIF I remember correctly, remove the 4
> allen
> > > screws on the
> > > front of the VFO assembly, disconnect any wiring
> and remove
> > > the lamps
> > > (do not disconnect the wires, remove them from
> the VFO) and
> > > it slides
> > > out the front to the radio. Be very carefull if
> you remove
> > > the cover.
> > > You must not move any wires, and you must not
> get any
> > > contact
> > > cleaner in the board or the plates of the tuning
> capacitor.
> > > If you
> > > do, get contact cleaner where it shouldn't
> be, clean
> > > the areas
> > > carefully with alcohol and let dry thoroughly
> before
> > > re-assembly. I
> > > recommend DeOxit D5 to clean contacts and
> controls.
> > >
> > > And I second the advice others here have given
> you. Get
> > > the
> > > transformer re-wound, or find a parts unit.
> > >
> > > TTYL
> > >
> > > vu2jmx wrote:
> > > > Thanks for the link Mike.
> > > >
> > > > Frankly, the prices look very prohibitive!!
> > > >
> > > > I should perhaps build an external PSU if I
> don't
> > > find the OEM part
> > > > at a resonable cost.
> > > >
> > > > I'm having other problems as well:
> > > >
> > > > = RX seems OK but absolutely no ALC reading
> on TX (all
> > > bands). I'm

> > > > able to get about 5W o/p on 80M with a dummy
> load. =
> > > My
> > > > Send/Receive switch is broken. Actually only
> the knob
> > > is broken. =
> > > > VFO disappears at around "300" on
> the dial
> > > on every band. I reckon
> > > > the tuning cap needs cleaning.
> > > >
> > > > Right now I'm trying to figure how to
> remove the
> > > VFO assembly.....
> > > >
> > > > Any help on this please ??
> > > >
> > > > 73, Aron.
> > > >
> > > >
> > > >
> > > > --- On Thu, 1/29/09, w5rkl <w5rkl@...>
> > > wrote:
> > > >
> > > >> From: w5rkl <w5rkl@...> Subject:
> > > [TS-520_820_530_830] Re:
> > > >> TS-520 Power Transformer To:
> > > TS-520_820_530_830@yahoogroups.com
> > > >> Received: Thursday, January 29, 2009,
> 2:01 PM
> > > Aron,
> > > >>
> > > >>
> > > >> You can either find a parts 520 or have
> the power
> > > transformer
> > > >> rewound. For rewinding, here's a
> link you
> > > might try.
> > > >>
> > > >>
> > > >
> http://members.tripod.com/tubes_tubes_tubes/transformerrewindingservice/id32.html
> > > >>
> > > >>
> > > >> I'm sure there are other transformer
> rewinding
> > > websites.
> > > >>
> > > >> Using a power transformer that is not

> designed for
> > > nor produces
> > > >> the correct AC voltages for the 520 is
> not a good
> > > idea.
> > > >>
> > > >> 73 Mike W5RKL
> > > >>
> > > >>
> > > >> --- In
> TS-520_820_530_830@yahoogroups.com,
> > > "vu2jmx" <vu2jmx@>
> > > >> wrote:
> > > >>> Hi,
> > > >>>
> > > >>> My TS-520 power trafo is busted;
> Where can I
> > > get a
> > > >> replacement, please ?
> > > >>> Right now I'm using a trafo from
> FT-101.
> > > >> Unfortunately the HV is
> > > >>> insufficient. Secondly, the FT-101
> trafo does
> > > not have
> > > >> the necessary
> > > >>> (rather, the right voltages) taps
> for Final
> > > screen,
> > > >> Driver plate and
> > > >>> Screen. Because of this I'm
> forced to use
> > > dropping
> > > >> resistors which are
> > > >>> a PIN. The 14VDC is now running on
> half-wave
> > > (single Diode).
> > > >>>
> > > >>> Anyway, to keep it simple, I feel it
> is better
> > > to get
> > > >> the right
> > > >>> replacemt trafo - if one is
> available.
> > > >>>
> > > >>> Thanks and 73, Aron.
> > > >>>
> > > >>
> > > >>
> > > >> ------------------------------------

> > > >>
> > > >> Yahoo! Groups Links
> > > >>
> > > >>
> > > >>
> > > >
> > > >
> > >
> --
> > >
> > > > Be smarter than spam. See how smart
> SpamGuard is at
> > > giving junk
> > > > email the boot with the All-new Yahoo! Mail.
> Click on
> > > Options in
> > > > Mail and switch to New Mail today or
> register for free
> > > at
> > > > http://mail.yahoo.ca
> > > >
> > >
> > > --
> > > CUL8R
> > >
> > > KBOHAE kb0hae@... Martin Campbell
> > >
> > > A Satisfied Sidux Linux user! To get Sidux go
> to:
> > > www.sidux.com/index.html
> > > "Protect your digital freedom and privacy,
> eliminate
> > > DRM, learn more
> > > at
> http://www.defectivebydesign.org/what_is_drm"
> > >
> > > ------------------------------------
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >
> >
> >
> --
> > Looking for the perfect gift? Give the gift of Flickr!
>
> >
> > http://www.flickr.com/gift/
> >

>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

____
Be smarter than spam. See how smart SpamGuard is at giving junk email the boot with the
All-new Yahoo! Mail. Click on Options in Mail and switch to New Mail today or register for
free at http://mail.yahoo.ca

19956. Re: Led's or no Led's

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-01 17:15:38 UTC
From: boat.anchor
Topic: 19932 Message: 19956

Gordon
Have a number of sets that lasted 2 seasons.
How to you remove the LEDs?
Break the bulb?
thanks
Barry

--- In TS-520_820_530_830@...m, Gordon JC Pearce MM3YEQ
<gordon@...> wrote:
>
> On Sat, 2009-01-31 at 16:52 +0100, Daniel TOESCA wrote:
> > Don't overlook the Xmas-tree types !!!!
> >
> > Usually around $3 for a set of 12, even less just after Xmas.
> >
> > Daniel, ON5PY
>
> Even less just before Christmas, too. You get them in sets of 19
from the kerbside recycling.
>
> Gordon
>

19957. Re: Need 8 pin remote VFO interface cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-01 17:21:17 UTC
From: al_kozakiewicz
Topic: 19578 Message: 19957

The VFO cable uses 9-pin miniature tube type plugs. The amplifier connector uses an 8 pin "octal" tube type plug.

The octal plugs are available from many sources online. I bought one with a cable ctrain relief for about $10. However, that's NOT what you need for the VFO.

The 9-pin plugs are way harder to find and Kenwood does not sell them anymore. The only source I've found is Leeds Radio in Brooklyn. Look down near the bottom of this <http://www.leedsradio.com/parts-sockets.html> for the plugs.

Be aware that Leeds is an old time NYC radio dealer that was once located in the heart of Manhattan's glorious electronics district. It was relocated to make way for the WTC in the 1960's and is the only surviving merchant of that era that I know of.

As a result, they tend not to answer their phone when they get busy and you can't currently order online. You'll have to call, leave a message and order the old fashioned way. Or do it entirely by mail.

Al

AB2ZY

--- In TS-520_820_530_830@yahoogroups.com <mailto:TS-520_820_530_830@yahoogroups.com> , "ve3wej gmail" <ve3wej@...> wrote:
>
> the remote cable k4eaa shows on his page for a vfo remote is for the 830 530, not 820 520. my 820 has 9 pin, not 8 pin and they are not din plugs...
>
>
> VE3WEJ
> Dave Garber
>
> 10-X # 23465
> echolink # 52852
> irlp node 2202
> email ve3wej@...
> ----- Original Message -----
> From: james eaton
> To: TS-520_820_530_830@yahoogroups.com <mailto:TS-520_820_530_830@yahoogroups.com>
> Sent: Saturday, January 31, 2009 8:26 PM
> Subject: Re: [TS-520_820_530_830] Need 8 pin remote VFO interface

cable
>
>
> http://www.k4eaa.com/parts.htm <http://www.k4eaa.com/parts.htm>
> He has a kit to build a VFO cable for $12.50.
>
> Jim
> KE5KNH
>
> --- On Tue, 1/6/09, jwsanders2002 <jwsanders2002@...> wrote:
>
> From: jwsanders2002 <jwsanders2002@...>
> Subject: [TS-520_820_530_830] Need 8 pin remote VFO interface cable
> To: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830@yahoogroups.com>
> Date: Tuesday, January 6, 2009, 6:36 PM
>
> I am a relatively new ham with a functional Yaesu 857D [do all] mini
> station and very happy with it. BUT today I purchased a MINT [no
marks
> anywhere] TS-820/VFO-820/ AT-200/MC- 50 listed on my local Craig's
list.
> This makes an elegant but classic station with SO SO much for me to
> learn. My first question is where can I find a REASONABLY priced 8
pin
> Remote VFO Interface cable. Searcing the web turns up only an EBay
> dealer who is asking $44.95 plus shipping. Considering I paid $400
for
> the whole station I hope someone can help me with a more reasonable
> source.
> Thanks, Jack
> N7BBX
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

19958. Re: [TS-520_820_530_830] Re: Led's or no Led's

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-01 17:48:41 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 19932 Message: 19958

On Sun, 2009-02-01 at 17:15 +0000, boat.anchor wrote:
> Gordon
> Have a number of sets that lasted 2 seasons.
> How to you remove the LEDs?
> Break the bulb?
> thanks
> Barry

The really cheap lighting sets are usually just a string of 12v bulbs in series. One goes, and they all go dark.

LED ones last a bit longer, until the probably-bogus-CE-mark transformer fails.

Gordon

19959. Re: Led's or no Led's

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-01 17:59:05 UTC
From: boat.anchor
Topic: 19932 Message: 19959

Gordon
Thanks
I still have the boxes and they are labelled C6 lights which I think
are LEDs but there is no transformer. Some strings are half bright
while others are dark. If I knew I could, I would repair them but I
think the process of accessing the LEDs is probably destructive, so
would like to salvage the LEDs if possible.
Do you know how to get at the LEDs?
thanks
Barry

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce MM3YEQ
<gordon@...> wrote:
>
> On Sun, 2009-02-01 at 17:15 +0000, boat.anchor wrote:
> > Gordon
> > Have a number of sets that lasted 2 seasons.
> > How to you remove the LEDs?
> > Break the bulb?
> > thanks
> > Barry
>
> The really cheap lighting sets are usually just a string of 12v
bulbs in
> series. One goes, and they all go dark.
>
> LED ones last a bit longer, until the probably-bogus-CE-mark
transformer
> fails.
>
> Gordon
>

19960. Re: [TS-520_820_530_830] Re: Led's or no Led's

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-01 17:59:45 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 19932 Message: 19960

On Sun, 2009-02-01 at 17:59 +0000, boat.anchor wrote:
> Gordon
> Thanks
> I still have the boxes and they are labelled C6 lights which I think
> are LEDs but there is no transformer. Some strings are half bright
> while others are dark. If I knew I could, I would repair them but I
> think the process of accessing the LEDs is probably destructive, so
> would like to salvage the LEDs if possible.
> Do you know how to get at the LEDs?
> thanks
> Barry

Hard to say without seeing them, but you'd probably have to cut the
actual lamps open. It's getting pretty off-topic though ;-)

Gordon

19961. Re:TS-520 Power Transformer and VFO assembly

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-01 18:02:09 UTC
From: boat.anchor
Topic: 19911 Message: 19961

Aron
Now I am confused. Ur call places U in India. If you are in Canada say so and there may be some local help available.
regards
Barry
CF7GEM

--- In TS-520_820_530_830@yahoogroups.com, vu2jmx <vu2jmx@...> wrote:
>
> Thanks Gordon. I sent Bob an e-mail but did not get any reply.
> On a side note, somebody on QTH.net is selling the Trafos for $50 plus $25 shipping to Canada but the seller reviews are not satisfactory. I don't want to risk it.
>
> 73,
> Aron.

19962. TS820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-01 19:01:20 UTC
From: bragucci
Topic: 9983 Message: 19962

My TS820 was functioning fine two days ago. Today I turned it on, tuned up on 40m and tried to transmit, only put out a few watts on LSB. I tried CW and got my normal 100w out. I tried to tune up again and was able to get 10-15w out, again CW was 100w out. I went over the mic/connector and all connections are good. Any ideas!
Thx
Bart
KD8GTP

19963. Re: [TS-520_820_530_830] Re:TS-520 Power Transformer and VFO assembly

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-01 20:10:21 UTC
From: ve3wej gmail
Topic: 19911 Message: 19963

cf is a canadian prefix special call prefix to replace ve or va....

if your logging program is making it as india?? check your country list maybe..

CG for VE
CF for VA
CH for VO
CI for VY

or see http://www.rac.ca/regulatory/specialcalls.htm

VE3WEJ
Dave Garber

10-X # 23465
echolink # 52852
irlp node 2202
email ve3wej@...
----- Original Message -----
From: boat.anchor
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, February 01, 2009 1:02 PM
Subject: [TS-520_820_530_830] Re:TS-520 Power Transformer and VFO assembly

Aron
Now I am confused. Ur call places U in India. If you are in Canada say
so and there may be some local help available.
regards
Barry
CF7GEM

--- In TS-520_820_530_830@yahoogroups.com, vu2jmx <vu2jmx@...> wrote:
>
> Thanks Gordon. I sent Bob an e-mail but did not get any reply.
> On a side note, somebody on QTH.net is selling the Trafos for $50
plus $25 shipping to Canada but the seller reviews are not
satisfactory. I don't want to risk it.
>
> 73,
> Aron.

[Non-text portions of this message have been removed]

19964. Re: Led's or no Led's

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-01 20:20:38 UTC
From: raydeeoh08
Topic: 19932 Message: 19964

LED XMAS lights are generally built with the LED sitting in a small plastic "holder" which is then injection-molded with the lens/base. Some of them have a removable lens but most don't. Keep in mind that these LEDs are not simply wired in series or series/parallel. There are resistors in the circuit otherwise the LEDs wouldn't function.

I've replaced several sets of panel lamps with LEDs in my TR-7950, TS-940S an even an old stereo head unit. All used so-called "wheat lamps" or "grain-bulbs" because they are about the size of a wheat kernel.

The LEDs have worked very well indeed and provide excellent lighting. However, I have found that by using a nail file to "rough up" the otherwise very smooth plastic cap of each LED helps to diffuse the light which is often focused in an LED and provides a very suitable pattern.

Have fun!

Cheers,
Robert

--- In TS-520_820_530_830@yahoogroups.com, "boat.anchor" <boat.anchor@...> wrote:
>
> Gordon
> Thanks
> I still have the boxes and they are labelled C6 lights which I think
> are LEDs but there is no transformer. Some strings are half bright
> while others are dark. If I knew I could, I would repair them but I
> think the process of accessing the LEDs is probably destructive, so
> would like to salvage the LEDs if possible.
> Do you know how to get at the LEDs?
> thanks
> Barry
>
> --- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce MM3YEQ
> <gordon@> wrote:
> >
> > On Sun, 2009-02-01 at 17:15 +0000, boat.anchor wrote:
> > > Gordon
> > > Have a number of sets that lasted 2 seasons.
> > > How to you remove the LEDs?
> > > Break the bulb?
> > > thanks
> > > Barry

> >
> > The really cheap lighting sets are usually just a string of 12v
> bulbs in
> > series. One goes, and they all go dark.
> >
> > LED ones last a bit longer, until the probably-bogus-CE-mark
> transformer
> > fails.
> >
> > Gordon
> >
>

19965. Re: TS820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-01 21:34:29 UTC
From: w5rkl
Topic: 9983 Message: 19965

Bart,

How is the output on USB, is it the same?

I recommend cleaning the mode switch with contact cleaner.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "bragucci" <bragucci@...>
wrote:
>
> My TS820 was functioning fine two days ago. Today I turned it on,
> tuned up on 40m and tried to transmit, only put out a few watts on
> LSB. I tried CW and got my normal 100w out. I tried to tune up again
> and was able to get 10-15w out, again CW was 100w out. I went over
> the mic/connector and all connections are good. Any ideas!
> Thx
> Bart
> KD8GTP
>

19966. Re:TS-520 Power Transformer and VFO assembly

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-01 22:01:49 UTC
From: boat.anchor
Topic: 19911 Message: 19966

Dave
I know what my call is. It was Arons call of VU2JMX and his mention
of shipping to Canada that had me confused.
regards
Barry
CF7GEM/VA7GEM

--- In TS-520_820_530_830@yahoogroups.com, "ve3wej gmail"
<ve3wej@...> wrote:
>
> cf is a canadian prefix special call prefix to replace ve or va....
>
> if your logging program is making it as india?? check your
country list maybe..
>
> CG for VE
> CF for VA
> CH for VO
> CI for VY
>
> or see http://www.rac.ca/regulatory/specialcalls.htm
>
>
> VE3WEJ
> Dave Garber
>
> 10-X # 23465
> echolink # 52852
> irlp node 2202
> email ve3wej@...
> ----- Original Message -----
> From: boat.anchor
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, February 01, 2009 1:02 PM
> Subject: [TS-520_820_530_830] Re:TS-520 Power Transformer and VFO
assembly
>
>
> Aron
> Now I am confused. Ur call places U in India. If you are in
Canada say
> so and there may be some local help available.
> regards
> Barry
> CF7GEM

>
> --- In TS-520_820_530_830@yahoogroups.com, vu2jmx <vu2jmx@> wrote:
> >
> > Thanks Gordon. I sent Bob an e-mail but did not get any reply.
> > On a side note, somebody on QTH.net is selling the Trafos for
$50
> plus $25 shipping to Canada but the seller reviews are not
> satisfactory. I don't want to risk it.
> >
> > 73,
> > Aron.
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

19967. Re: [TS-520_820_530_830] Re:TS-520 Power Transformer and VFO assembly

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-01 22:16:05 UTC
From: ve3wej gmail
Topic: 19911 Message: 19967

ok, he probably have friends in Canada..... to mail it too, or travels back and forth.

VE3WEJ
Dave Garber

10-X # 23465
echolink # 52852
irlp node 2202
email ve3wej@...
----- Original Message -----
From: boat.anchor
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, February 01, 2009 5:01 PM
Subject: [TS-520_820_530_830] Re:TS-520 Power Transformer and VFO assembly

Dave
I know what my call is. It was Arons call of VU2JMX and his mention
of shipping to Canada that had me confused.
regards
Barry
CF7GEM/VA7GEM

--- In TS-520_820_530_830@yahoogroups.com, "ve3wej gmail"
<ve3wej@...> wrote:
>
> cf is a canadian prefix special call prefix to replace ve or va....
>
> if your logging program is making it as india?? check your
country list maybe..
>
> CG for VE
> CF for VA
> CH for VO
> CI for VY
>
> or see http://www.rac.ca/regulatory/specialcalls.htm
>
>
> VE3WEJ
> Dave Garber
>
> 10-X # 23465
> echolink # 52852
> irlp node 2202
> email ve3wej@...

> ----- Original Message -----
> From: boat.anchor
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, February 01, 2009 1:02 PM
> Subject: [TS-520_820_530_830] Re:TS-520 Power Transformer and VFO
assembly
>
>
> Aron
> Now I am confused. Ur call places U in India. If you are in
Canada say
> so and there may be some local help available.
> regards
> Barry
> CF7GEM
>
> --- In TS-520_820_530_830@yahoogroups.com, vu2jmx <vu2jmx@> wrote:
> >
> > Thanks Gordon. I sent Bob an e-mail but did not get any reply.
> > On a side note, somebody on QTH.net is selling the Trafos for
$50
> plus $25 shipping to Canada but the seller reviews are not
> satisfactory. I don't want to risk it.
> >
> > 73,
> > Aron.
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

19968. Re: Led's or no Led's

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-01 23:01:57 UTC
From: Brian Hall
Topic: 19932 Message: 19968

Here are the ones I use:

http://www.ledsupply.com/l1-0-ww5th50-1.php

Brian AC7NA

19969. Re:TS-520 Power Transformer and VFO assembly

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-01 22:01:43 UTC
From: vu2jmx
Topic: 19911 Message: 19969

Barry and Dave, In addition to the VU call I'm VE3UMA. It was just convinient using my old (active) HAM e-mail ID/call on Yahoo groups. Besides, many of my old pals know me as VU2JMX.

Thanks and 73,
Aron
va3uma
www.qsl.net/vu2jmx

--- On Sun, 2/1/09, ve3wej gmail <ve3wej@...> wrote:

> From: ve3wej gmail <ve3wej@...>
> Subject: Re: [TS-520_820_530_830] Re:TS-520 Power Transformer and VFO assembly
> To: TS-520_820_530_830@yahoogroups.com
> Received: Sunday, February 1, 2009, 3:10 PM
> cf is a canadian prefix special call prefix to replace ve or
> va....
>
> if your logging program is making it as india?? check
> your country list maybe..
>
> CG for VE
> CF for VA
> CH for VO
> CI for VY
>
> or see http://www.rac.ca/regulatory/specialcalls.htm
>
>
> VE3WEJ
> Dave Garber
>
> 10-X # 23465
> echolink # 52852
> irlp node 2202
> email ve3wej@...
> ----- Original Message -----
> From: boat.anchor
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, February 01, 2009 1:02 PM
> Subject: [TS-520_820_530_830] Re:TS-520 Power Transformer
> and VFO assembly
>
>
> Aron
> Now I am confused. Ur call places U in India. If you are

> in Canada say
> so and there may be some local help available.
> regards
> Barry
> CF7GEM
>
> --- In TS-520_820_530_830@yahoogroups.com, vu2jmx
> <vu2jmx@...> wrote:
> >
> > Thanks Gordon. I sent Bob an e-mail but did not get
> any reply.
> > On a side note, somebody on QTH.net is selling the
> Trafos for $50
> plus $25 shipping to Canada but the seller reviews are
> not
> satisfactory. I don't want to risk it.
> >
> > 73,
> > Aron.
>
>
>
>
>
> [Non-text portions of this message have been removed]
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

Ask a question on any topic and get answers from real people. Go to Yahoo! Answers and
share what you know at http://ca.answers.yahoo.com

19970. TS-820S & VFO-820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-02 00:03:09 UTC
From: km5rv
Topic: 19970 Message: 19970

I found a broken connection on the vfo cable and fixed it. I plugged the cable back into the vfo and the vfo functions properly. The only thing is I can't get the transmitter to key-up. Then I heard a loud crack and the radio was DOA. I sent the radio off and had it fixed, had the Q9 on the AF/Vox unit replaced, in the transceiver. The transceiver transmits fine without the vfo but when I plug the vfo back in nothing. I think this might have been why it blew in the first place. I have checked all connections on the cable and all seem well. Where should I go from here? Any help would be appreciated.
Tnx
KM5RV

19971. Selling TS-830 with ESP mods

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-02 00:05:02 UTC
From: randy
Topic: 19971 Message: 19971

Hello Group;
I have decided to sell my TS-830 with all the mods and algiment done by ESP. It has the manual and box. Radio is in very good condition no major issues in regards to the apperance.
Any questions please email me off the group at siteinspect@... or call me at 630-742-6727 anytime from 9Am to 9PM CST.
Price is $450.00 plus S/I

Thanks
Randy
W9RTB

19972. Re: [TS-520_820_530_830] Getting on the air

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-02 01:31:40 UTC
From: John Harp
Topic: 19201 Message: 19972

Hey Angela, now that you've been around on 40 and80, you know how the bands can sound. I use 1/4 wave ground mounted vertical and it gets noisy for me even despite my station is outside the house.

I recently have been trying an antenna or beverage antenna and I find it gives me a better chance at teasing the signal out of the noise. You might look into these sometime. They are an aperiodical antenna so you don't necessarily need to prune them to resonance like a dipole or a vertical.

Someting to think about for you when you are fighting the noise. Mine are only 4 feet high and one to the north is only 118 feet long and the other is to the south only 85 feet long. Easy to do.

John.

--- On Thu, 12/4/08, Angelica <arkch1p@yahoo.com> wrote:

From: Angelica <arkch1p@...>
Subject: [TS-520_820_530_830] Getting on the air
To: "TS Kenwood" <TS-520_820_530_830@yahoogroups.com>
Date: Thursday, December 4, 2008, 11:22 AM

I was unable to pick up the Texas Traffic Net (around 3873) last night. I did hear the Single Side Band net (around 3932). Unfortunately it was noisey and all they could hear from me was the first half of my call sign (KD8). Hopefully soon a contact will be made. What a Christmas gift to myself that would be. :)

Angela KD8HMS

[Non-text portions of this message have been removed]

19973. Re:TS-520 Power Transformer and VFO assembly

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-02 03:50:50 UTC
From: boat.anchor
Topic: 19911 Message: 19973

Aron
TVM
I see U R in Scarborough. Have U tried running a wanted ad in ur closest Craigslist free section. Never know what will come to the surface. I had similar issue and a lady had her Dad's old 520S in a storage locker and she gave it to me. She also threw in the SP-520 and MC-50.
regards
Barry

--- In TS-520_820_530_830@yahoogroups.com, vu2jmx <vu2jmx@...> wrote:
>
> Barry and Dave, In addition to the VU call I'm VE3UMA. It was just convinient using my old (active) HAM e-mail ID/call on Yahoo groups. Besides, many of my old pals know me as VU2JMX.
>
> Thanks and 73,
> Aron
> va3uma
> www.qsl.net/vu2jmx
>

19974. DK-520 for TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-02 05:23:25 UTC
From: Gordon
Topic: 19974 Message: 19974

I had a fellow ham ask me recently if I could build him a DK-520 adapter so he could hook up a DG-5 Digital Display to his TS-520. At first I searched around for a DK-520 unit, only to discover that they are not available and very rare. So I then decided to take the Project on. Thanks to Doug kc2pcr I was able to download the original Instruction manual to install the DK-520 using it and the supplied Schematic from Ken, K4EAA.
A trip to the Electronic store and a few hours later, I have a working DK-520 Clone.
Here is a PDF of the Project. It works Great .
http://www.n6wk.com/kenwood/DK-520-Project.pdf

Thanks again Doug for the Installation Files.

Gordon
N6WK

19975. Re: TS-820S & VFO-820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-02 13:34:34 UTC
From: w5rkl
Topic: 19970 Message: 19975

The cable between the TS-820 and the remote VFO-820 should be wired pin for pin, 1 to 1, 2 to 2, etc., no shorts or cross over connection between pins on either end.

The TS-820's FUNCTION switch is normally be set to "VFO".

The VFO-820 pins are as follows:

Pin 1 - VFO-820 signal

Pin 2 - VFO-820 signal shield ground

Pin 3 - Ground

Pin 4 - 12VAC for the VFO-820 dial lamp (VFO-820 only has one dial lamp)

Pin 5 - 14VDC for VFO-820 relay. VFO-820 relay use is determined by VFO-820's FUNCTION switch position. The VFO-820 relay allows for "split" (same band) frequency use, again, depending on the VFO-820's FUNCTION switch setting

Pin 6 - 9VDC ONLY present when the TS-820's FUNCTION switch in RMT position. Applies 9VDC to both VFOs to calibrate both VFOs (zero beat both VFO signals) so both VFOs are on the same frequency

Pin 7 - Not used

Pin 8 - 9VDC to power the VFO-820 and/or the internal VFO in the TS-820. If the VFO-820 is not plugged into the 9 pin socket on the rear of the TS-820, this pin must be connected to pin 9. If the VFO-820 is not plugged into the rear 9 pin socket on the TS-820 and this pin is NOT connected to pin 9, the TS-820's internal VFO will NOT work, rendering the TS-820 "dead", doesn't work

Pin 9 - 9VDC return path for the TS-820 internal VFO and, if used, the VFO-820

The only way I can see where the VFO-820 could cause Q9 on the FIX-VOX UNIT to fail is if pins 3 and 5 on the VFO-820 or the cable itself are shorted.

I recommend checking the VFO-820 and the VFO-820 cable for shorts between pins.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "km5rv" <km5rv@...> wrote:
>
> I found a broken connection on the vfo cable and fixed it. I plugged
> the cable back into the vfo and the vfo functions properly. The only
> thing is I can't get the transmitter to key-up. Then I heard a loud
> crack and the radio was DOA. I sent the radio off and had it fixed,
> had the Q9 on the AF/Vox unit replaced, in the transceiver. The
> transceiver transmits fine without the vfo but when I plug the vfo back
> in nothing. I think this might have been why it blew in the first
> place. I have checked all connections on the cable and all seem well.
> Where should I go from here? Any help would be appreciated.
> Tnx
> KM5RV
>

19976. Re:TS-520 Power Transformer and VFO assembly

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-02 13:57:52 UTC
From: vu2jmx
Topic: 19911 Message: 19976

Barry, OB, lucky you !!
I'll advertise and see if I can at least get a MC-50 MIC ! Of course I'll keep looking for the transformer too.
Let me see what I can get in the St. Catharines hamfest this Saturday.

73,
Aron.

--- On Sun, 2/1/09, boat.anchor <boat.anchor@...> wrote:

> From: boat.anchor <boat.anchor@...>
> Subject: [TS-520_820_530_830] Re:TS-520 Power Transformer and VFO assembly
> To: TS-520_820_530_830@yahoogroups.com
> Received: Sunday, February 1, 2009, 10:50 PM
> Aron
> TVM
> I see U R in Scarborough. Have U tried running a wanted ad
> in ur
> closest Craigslist free section. Never know what will come
> to the
> surface. I had similar issue and a lady had her Dad's
> old 520S in a
> storage locker and she gave it to me. She also threw in the
> SP-520
> and MC-50.
> regards
> Barry
>
> --- In TS-520_820_530_830@yahoogroups.com, vu2jmx
> <vu2jmx@...> wrote:
> >
> > Barry and Dave, In addition to the VU call I'm
> VE3UMA. It was just
> convinient using my old (active) HAM e-mail ID/call on
> Yahoo groups.
> Besides, many of my old pals know me as VU2JMX.
> >
> > Thanks and 73,
> > Aron
> > va3uma
> > www.qsl.net/vu2jmx
> >
>
>
>
> ------------------------------------

>
> Yahoo! Groups Links
>
>
>

_____
Instant Messaging, free SMS, sharing photos and more... Try the new Yahoo! Canada Messenger at http://ca.beta.messenger.yahoo.com/

19977. Re: DK-520 for TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-02 17:03:32 UTC
From: hobopelican
Topic: 19974 Message: 19977

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> I had a fellow ham ask me recently if I could build him a DK-520
> adapter so he could hook up a DG-5 Digital Display to his TS-520.<snip>
> Here is a PDF of the Project. It works Great .
> http://www.n6wk.com/kenwood/DK-520-Project.pdf
>
> Thanks again Doug for the Installation Files.
>
> Gordon
> N6WK
>

Nice photos, Gordon! The rareness of the DK-520 has kept me from even thinking about getting the digital display. Now, I just might have to give this a try. Am I correct in assuming that Ken has the schematic on his site?

Tery
KD8GNC

19978. Re: DK-520 for TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-02 17:24:32 UTC
From: Gordon
Topic: 19974 Message: 19978

Hi Tery,
Yes he does and it is also availabe here.
http://www.n6wk.com/kenwood/DK-520-Install-Instructions.pdf

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "hobopelican"
<hobopelican@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > I had a fellow ham ask me recently if I could build him a DK-520
> > adapter so he could hook up a DG-5 Digital Display to his
TS-520.<snip>
> > Here is a PDF of the Project. It works Great .
> > http://www.n6wk.com/kenwood/DK-520-Project.pdf
> >
> > Thanks again Doug for the Installation Files.
> >
> > Gordon
> > N6WK
> >
>
> Nice photos, Gordon! The rareness of the DK-520 has kept me from even
> thinking about getting the digital display. Now, I just might have to
> give this a try. Am I correct in assuming that Ken has the schematic
> on his site?
>
> Tery
> KD8GNC
>

19979. cracked core on 14 mhz driver coil

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-02 18:08:20 UTC
From: Camp Trexler Radio Club
Topic: 19979 Message: 19979

working on ts 520 took of the cover only to find a pice of the tunning slug for the 14 mhz driver coil inside. Does anybody have a source for a new core? Rig is to be used at Boyscout camp station Help!!!!!
73
Darryl

19980. F/S TS-530-S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-02 21:40:06 UTC
From: Rich Jones
Topic: 18594 Message: 19980

I am parting with a nice TS-530-S. Includes all WARC bands, no issues, no dings, just a nice looking unit that performs as it should. No filters. Asking $275.00 incldues UPS ground in lower 48. A nice Shure 444 desk mic (This is a classic World Radio edition microphone) for extra $30.00. Manual included. You won't be disapointed. Need room in shack for new rig. NO TRADES PLEASE Good in QRZ Rich K8UV

19981. Re: [TS-520_820_530_830] cracked core on 14 mhz driver coil

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-02 22:28:58 UTC
From: Adam Wade
Topic: 19979 Message: 19981

On Monday, February 02, 2009 10:08 AM [Zulu -7],
Camp Trexler Radio Club <n3aoi@...> wrote:

> working on ts 520 took of the cover only to find a pice of the tunning
> slug for the 14 mhz driver coil inside. Does anybody have a source for
> a new core? Rig is to be used at Boyscout camp station Help!!!!!

You can still get some of the complete replacement coils (with new,
unbroken
slugs inside) for about $3 each from http://www.kenwwodparts.com

A helpful hint I learned from someone who is sharp enough to have written
on
amps (and hybrids!) for QST and the ARRL Handbook for quite a number of
years -- if you heat the slugs with a hairdryer before tuning them, they
are
far, far less likely to crack (whether this is because of the softening of
the plastic for the coil form or something else I do not know).

! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
! "I write down everything I want to remember. That way, instead !
! of spending a lot of time trying to remember what it is I wrote !
! down, I spend z time looking for the paper I wrote it down on." !
! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !

19982. Re: [TS-520_820_530_830] cracked core on 14 mhz driver coil

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-02 23:01:36 UTC
From: richard
Topic: 19979 Message: 19982

On Mon, 02 Feb 2009 18:08:20 -0000
"Camp Trexler Radio Club" <n3aoi@...> wrote:

> working on ts 520 took of the cover only to find a pice of the tunning
> slug for the 14 mhz driver coil inside. Does anybody have a source for
> a new core? Rig is to be used at Boyscout camp station Help!!!!!
> 73
> Darryl
>
Hi
I've had some success with this a couple of times.

A very tiny drop of super glue in the centre of the crack can hold the
ferrite core together long enough to get it out.
Only use the smallest amount of the glue, the ferrite is porous enough
to soak it up.
The trick is to use only enough to stick the core and NOT the core to
the former.
Good luck & HTH

--
Best wishes

Richard Bown

##
Registered Linux User 36561
OS: Ubuntu 8.10, Intrepid, on AMD Dual Athlon 64 +4400: 8 GB RAM DDR2
Ham Call: G8JVM , QRA IO82SP, Interests Microwave
##

19983. Re: [TS-520_820_530_830] cracked core on 14 mhz driver coil

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-02 23:17:20 UTC
From: John A
Topic: 19979 Message: 19983

Actually, the reason for using a touch of heat before adjusting the core, is because they are usually potted-in with a bit of wax. Heating the core slightly will soften the wax to make it easier to adjust and less likely to break a core. Some folks briefly touch a hot soldering iron to the core before adjusting.

John

On Feb 2, 2009, at 5:28 PM, Adam Wade wrote:

> On Monday, February 02, 2009 10:08 AM [Zulu -7],
> Camp Trexler Radio Club <n3aoi@...> wrote:
>
>> working on ts 520 took of the cover only to find a pice of the
>> tunning
>> slug for the 14 mhz driver coil inside. Does anybody have a source
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>
> You can still get some of the complete replacement coils (with new,
> unbroken
> slugs inside) for about $3 each from http://www.kenwwodparts.com
>
> A helpful hint I learned from someone who is sharp enough to have
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> on
> amps (and hybrids!) for QST and the ARRL Handbook for quite a
> number of
> years -- if you heat the slugs with a hairdryer before tuning them,
> they
> are
> far, far less likely to crack (whether this is because of the
> softening of
> the plastic for the coil form or something else I do not know).

19984. Re: cracked core on 14 mhz driver coil

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-02 23:47:08 UTC
From: Walter A. Breining
Topic: 19979 Message: 19984

Check older CB radios as well as other devices. CB radios especially those made by Cybernet often have slugs with the same thread and pitch as the Kenwood Hybrid coils.
Cybernet made CB radios such as Midland, HyGain, Krako, JC Pennys, Sears, and other store brands. Units made by Uniden such as Cobra, President, and of course Uniden usually do not have the correct slugs. However a few of the Cobras were made by Cybernet. Not the common ones such as the 29,25, 21 ETC.

While I do not wish to argue with success, I would be VERY careful with the super glue method of removal of a stuck slug. If the glue gets in the wrong place, the slug will be glued in and the coil will probably not be able to be saved.
Sometimes, I can take a very small jeweler's screwdriver and pick the small broken piece out allowing the larger piece to be worked out.
Often if most of the removed broken core is still there, it can be reinserted in upside down and will work fine.
If all else fails, very carefully remove the coil and try to remove the broken slug from the bottom.
There are a lot of CB radios lying around surplus. Working or broken, they are a good source for ham radio parts.
BTW, I haven't found the slug permeability particularly critical so if it fits I try it.

Vy 73, Walt N9WB

--- In TS-520_820_530_830@yahoogroups.com, "Camp Trexler Radio Club" <n3aoi@...> wrote:
>
> working on ts 520 took of the cover only to find a pice of the tunning
> slug for the 14 mhz driver coil inside. Does anybody have a source for
> a new core? Rig is to be used at Boyscout camp station Help!!!!!
> 73
> Darryl
>

19985. Re: [TS-520_820_530_830] Re: cracked core on 14 mhz driver coil

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-02 23:58:37 UTC
From: N6WK
Topic: 19979 Message: 19985

I have had very good luck with turning the broken core form the other end.
I just thread them out. I then take a core from any old coil that I have
with the same thread and install it and adjust it according to the
service Manual.
I have purchased coils from kenwoodparts.com and removed the core to
use in the coil with the broken core also .

Gordon

Walter A. Breining wrote:
>
> Check older CB radios as well as other devices. CB radios especially
> those made by Cybernet often have slugs with the same thread and
> pitch as the Kenwood Hybrid coils.
> Cybernet made CB radios such as Midland, HyGain, Krako, JC Pennys,
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>
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> small broken piece out allowing the larger piece to be worked out.
> Often if most of the removed broken core is still there, it can be
> reinserted in upside down and will work fine.
> If all else fails, very carefully remove the coil and try to remove
> the broken slug from the bottom.
> There are a lot of CB radios lying around surplus. Working or
> broken, they are a good source for ham radio parts.
> BTW, I haven't found the slug permeability particularly critical so
> if it fits I try it.
>
> Vy 73, Walt N9WB
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Camp Trexler Radio Club"
> <n3aoi@...> wrote:
> >
> > working on ts 520 took of the cover only to find a pice of the
> tunning
> > slug for the 14 mhz driver coil inside. Does anybody have a source
> for

> > a new core? Rig is to be used at Boyscout camp station Help!!!!!
> > 73
> > Darryl
> >
>
>
> Messages in this topic
> <http://groups.yahoo.com/group/TS-520_820_530_830/message/19979;_ylc=X3oDMTM2cGdtNHI5BF9
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3Z0cGMEc3RpbWUDMTIzMzYxODQzMwR0cGNJZAMxOTk3OQ-->
> (5) Reply (via web post)
> <http://groups.yahoo.com/group/TS-520_820_530_830/post;_ylc=X3oDMTJxcjZnYTczBF9TAzk3MzU5
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RpbWUDMTIzMzYxODQzMw--?act=reply&messageNum=19984>
> | Start a new topic
> <http://groups.yahoo.com/group/TS-520_820_530_830/post;_ylc=X3oDMTJlOTVwdTIyBF9TAzk3MzU5
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>
> Messages
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YxODQzMw-->
> | Files
> <http://groups.yahoo.com/group/TS-520_820_530_830/files;_ylc=X3oDMTJmczJpM3Y4BF9TAzk3MzU
5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA2ZpbGVzBHN0aW1lAzEyMzM2M
Tg0MzM->
> | Photos
> <http://groups.yahoo.com/group/TS-520_820_530_830/photos;_ylc=X3oDMTJlY2l2MjJuBF9TAzk3Mz
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> | Database
> <http://groups.yahoo.com/group/TS-520_820_530_830/database;_ylc=X3oDMTJjMGtjNGRpBF9TAzk3
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g0MzM->
> | Members
> <http://groups.yahoo.com/group/TS-520_820_530_830/members;_ylc=X3oDMTJlZWJhczc4BF9TAzk3M
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xODQzMw-->
>
> MARKETPLACE
> ---
> From kitchen basics to easy recipes - join the Group from Kraft Foods
> <http://us.ard.yahoo.com/SIG=13r0m29fc/M=493064.12016295.13271503.10835568/D=groups/S=17
05063108:MKP1/Y=YAHOO/EXP=1233625633/L=/B=kq3kOkPDhE8-/J=1233618433516655/A=5530388/R=0/SI
G=11nuutlas/*http://explore.yahoo.com/groups/kraftmealsmadesimple/>
>
> Yahoo! Groups
> <http://groups.yahoo.com/;_ylc=X3oDMTJkMWY5bXYyBF9TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc
3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA2dmcARzdGltZQMxMjMzNjE4NDMz>

>
> Change settings via the Web
> <http://groups.yahoo.com/group/TS-520_820_530_830/join;_ylc=X3oDMTJmODJzbXR2BF9TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA3N0bmdzBHN0aW1lAzEyMzM2MTg0MzM->
> (Yahoo! ID required)
> Change settings via email: Switch delivery to Daily Digest
> <mailto:TS-520_820_530_830-digest@yahoogroups.com?subject=Email%20Delivery:%20Digest>
> | Switch format to Traditional
> <mailto:TS-520_820_530_830-traditional@yahoogroups.com?subject=Change%20Delivery%20Format:%20Traditional>
>
> Visit Your Group
> <http://groups.yahoo.com/group/TS-520_820_530_830;_ylc=X3oDMTJkdDE5a3E0BF9TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA2hwZgRzdGltZQMxMjMzNjE4NDMz>
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> Unsubscribe
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=>
> Recent Activity
>
> *
> 21
> New Members
> <http://groups.yahoo.com/group/TS-520_820_530_830/members;_ylc=X3oDMTJmYzFpa2dsBF9TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwN2dGwEc2xrA3ZtYnJzBHN0aW1lAzEyMzM2MTg0MzM->
>
> Visit Your Group
> <http://groups.yahoo.com/group/TS-520_820_530_830;_ylc=X3oDMTJlMXR0YzJwBF9TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwN2dGwEc2xrA3ZnaHAEc3RpbWUDMTIzMzYxODQzMw-->
>
> Drive Traffic
>
> Sponsored Search
> <http://us.ard.yahoo.com/SIG=13o736pe3/M=493064.12016255.12445662.8674578/D=groups/S=1705063108:NC/Y=YAHOO/EXP=1233625633/L=/B=k63kOkPDhE8-/J=1233618433516655/A=4025338/R=0/SIG=12jnci1fd/*http://us.rd.yahoo.com/evt=44092/*http://searchmarketing.yahoo.com/srch/index.php>
>
> can help increase
>
> your site traffic.
>
> All-Bran
>
> 10 Day Challenge
> <http://us.ard.yahoo.com/SIG=13oep1iqv/M=493064.12016283.12445687.8674578/D=groups/S=1705063108:NC/Y=YAHOO/EXP=1233625633/L=/B=lK3kOkPDhE8-/J=1233618433516655/A=5202323/R=0/SIG=11aijbghb/*http://new.groups.yahoo.com/allbrangroup>

>
> Join the club and
>
> feel the benefits.
>
> Weight Loss Group
>
> on Yahoo! Groups
> <http://us.ard.yahoo.com/SIG=13p3oc0mp/M=493064.12016300.12445692.11323196/D=groups/S=1705063108:NC/Y=YAHOO/EXP=1233625633/L=/B=la3kOkPDhE8-/J=1233618433516655/A=5170419/R=0/SIG=11b5gu1oe/*http://new.groups.yahoo.com/specialKgroup>
>
> Get support and
>
> make friends online.
>

19986. TS-530-S SOLD

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-03 00:40:16 UTC
From: Rich Jones
Topic: 19986 Message: 19986

Thank you all who replied, the TS-530-S was sold to the first requester. 73 Rich K8UV

19987. Re: [TS-520_820_530_830] F/S TS-530-S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-03 00:24:03 UTC
From: w9oj@iquest.net
Topic: 18594 Message: 19987

Do you still have the radio ?

73 de Mike W9OJ

> I am parting with a nice TS-530-S. Includes all WARC bands, no issues,
> no dings, just a nice looking unit that performs as it should. No
> filters. Asking $275.00 incldues UPS ground in lower 48. A nice Shure
> 444 desk mic (This is a classic World Radio edition microphone) for
> extra $30.00. Manual included. You won't be disapointed. Need room in
> shack for new rig. NO TRADES PLEASE Good in QRZ Rich K8UV
>
>
> ------------------------------------

19988. Re: [TS-520_820_530_830] F/S TS-530-S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-03 01:22:28 UTC
From: Charles Coffee
Topic: 18594 Message: 19988

Rich;
I would like the TS-530S if it is still available. Price is fine with me, could you send me a picture of the unit. Thanks Chuck Coffee, KJ4GU

On Mon, Feb 2, 2009 at 4:40 PM, Rich Jones <michjonezee@...> wrote:

> I am parting with a nice TS-530-S. Includes all WARC bands, no issues,
> no dings, just a nice looking unit that performs as it should. No
> filters. Asking $275.00 incldues UPS ground in lower 48. A nice Shure
> 444 desk mic (This is a classic World Radio edition microphone) for
> extra $30.00. Manual included. You won't be disapointed. Need room in
> shack for new rig. NO TRADES PLEASE Good in QRZ Rich K8UV
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

[Non-text portions of this message have been removed]

19989. dummy load or frequency tuning.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-03 04:10:52 UTC
From: wvogel67
Topic: 19989 Message: 19989

I was wondering if you tune the radio in to a dummy load(full power 100 watts) and then just pick your frequency and then use the antenna tuner to tune to the frequency?

Or is it better to just tune the radio up on the frequency you want to use, and then use the antenna tuner?

I mean if you tune the radio in to a dummy load wont the radio tuning be different when you are on a particular frequency?

Thanks

19990. Re: [TS-520_820_530_830] dummy load or frequency tuning.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-03 04:32:34 UTC
From: Don Thomas
Topic: 19989 Message: 19990

Always set frequency/band, tune into dummy load and then set tuner to match the radio. Keeps the setup happy and the smoke inside the components. Once the radio is tuned usually you can vary the frequency some without retuning, but if going from one end of band to the other or changing bands you have to retune and reset the tuner.

--- On Mon, 2/2/09, wvogel67 <wvogel67@...> wrote:

From: wvogel67 <wvogel67@...>
Subject: [TS-520_820_530_830] dummy load or frequency tuning.
To: TS-520_820_530_830@yahoogroups.com
Date: Monday, February 2, 2009, 10:10 PM

I was wondering if you tune the radio in to a dummy load(full power
100 watts) and then just pick your frequency and then use the antenna
tuner to tune to the frequency?

Or is it better to just tune the radio up on the frequency you want
to use, and then use the antenna tuner?

I mean if you tune the radio in to a dummy load wont the radio tuning
be different when you are on a particular frequency?

Thanks

[Non-text portions of this message have been removed]

19991. Re: [TS-520_820_530_830] dummy load or frequency tuning.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-03 06:38:46 UTC
From: Lou Blasco
Topic: 19989 Message: 19991

Unless your aerial is a particularly poor match to the radio you can tune directly into your aerial (on a clear frequency) no need for the ATU. If you tune your radio into a 50 ohm load then there will probably be a mis-match between the radio and the aerial. You can either use your ATU to then match the aerial to the radio or skip the ATU and re-tune your radio once connected to the aerial.

The output circuit of your radio will generally be able to provide a good match between your output tubes and the aerial. Might look bad on an SWR meter set for 50 ohms but it will match none the less. If you really want to use the ATU then tuning up into a dummy load first will help you get repeatable results when working with most aerials.

Lou - VK3ALB

At 15:10 03/02/2009, you wrote:

>I was wondering if you tune the radio in to a dummy load(full power
>100 watts) and then just pick your frequency and then use the antenna
>tuner to tune to the frequency?
>
> Or is it better to just tune the radio up on the frequency you want
>to use, and then use the antenna tuner?
>
>
>I mean if you tune the radio in to a dummy load wont the radio tuning
>be different when you are on a particular frequency?
>
>
>Thanks

19992. Re: [TS-520_820_530_830] dummy load or frequency tuning.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-03 07:30:48 UTC
From: martin
Topic: 19989 Message: 19992

Sorry Lou, That is just wrong. You ALWAYS tune into a dummy load!
NEVER tune the radio into an antenna!! Operating the radio into a high
SWR will shorten th life of the tubes, and tuning up into an antenna
can cause interference to other stations, even if the frequency seems
clear.

It is the height of rudeness to tune up a radio or an amplifier into
an antenna instead of into a dummy load!

Lou Blasco wrote:
> Unless your aerial is a particularly poor match to the radio you can
> tune directly into your aerial (on a clear frequency) no need for the
> ATU. If you tune your radio into a 50 ohm load then there will
> probably be a mis-match between the radio and the aerial. You can
> either use your ATU to then match the aerial to the radio or skip the
> ATU and re-tune your radio once connected to the aerial.
>
> The output circuit of your radio will generally be able to provide a
> good match between your output tubes and the aerial. Might look bad
> on an SWR meter set for 50 ohms but it will match none the less. If
> you really want to use the ATU then tuning up into a dummy load first
> will help you get repeatable results when working with most aerials.
>
> Lou - VK3ALB
>
>
> At 15:10 03/02/2009, you wrote:
>
>> I was wondering if you tune the radio in to a dummy load(full power
>> 100 watts) and then just pick your frequency and then use the antenna
>> tuner to tune to the frequency?
>>
>> Or is it better to just tune the radio up on the frequency you want
>> to use, and then use the antenna tuner?
>>
>>
>> I mean if you tune the radio in to a dummy load wont the radio tuning
>> be different when you are on a particular frequency?
>>
>>
>> Thanks
>
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

19993. F/S TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-03 07:48:24 UTC
From: Jim Cannici
Topic: 19993 Message: 19993

I am cleaning up my shack and have a 820S in excellent condition for sale. I just do not have room for it anymore. Radio works well on all bands however I have never tested 160m as I do not have an antenna, but does load up on a dummy load. Has the Kenwood Trio SSB and CW filters installed. I took it off line a couple of months ago and at that time was getting very good audio reports with the Kenwood MC-50 Mike that is included. I also have the original operators manual, service manual, and Kenwood product brochure. Price is $400.00 plus shipping from 97267. Shoot me an email if interested. Thanks for reading. N7JEC

19994. Re: [TS-520_820_530_830] dummy load or frequency tuning.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-03 08:40:56 UTC
From: Lou Blasco
Topic: 19989 Message: 19994

No need to be sorry Martin. Just a healthy discussion.

I did say

"Unless your aerial is a particularly poor match to the radio you can tune directly into your aerial"

and

" on a clear frequency"

The tuning process on a 520 is mainly done at low power and very briefly at full power. I'm not advocating transmitting into a gross mismatch nor am I advocating tuning up at full power. Let's not forget that the tune process only takes a few seconds at most. The idea is to achieve maximum power transfer between the pa and the aerial. This can only be done without the use of an ATU if you connect your aerial to your radio and tune-up. If you have a dummy load and an ATU, fine, by all means tune up into the load first then adjust the ATU.

Tuning up on frequency? Eventually you do have to tune-up or adjust your ATU. Let's take the example of tuning up into a dummy load? You tune-up and are happy that you are getting maximum power transfer to the load. Great. Now you have to connect your TX to the ATU and then to the aerial, you still need to transmit on air to adjust your ATU to match the output of your TX to the aerial. This can take every bit as long as tuning the transmitter.

I agree with you that tuning up for extended periods of time or on top of a contact is rude, I agree, but you still need to make sure that you have a match somewhere along the line and the only way to do that is on air. I've seen plenty of auto tuners that take way longer to find a match than it takes to tune a 520.

The point I was trying to make for wvogel67 was that a match could be achieved either way.

Lou

At 18:30 03/02/2009, you wrote:
>Sorry Lou, That is just wrong. You ALWAYS tune into a dummy load!
>NEVER tune the radio into an antenna!! Operating the radio into a high
>SWR will shorten th life of the tubes, and tuning up into an antenna
>can cause interference to other stations, even if the frequency seems
>clear.
>

>It is the height of rudeness to tune up a radio or an amplifier into
>an antenna instead of into a dummy load!
>
>Lou Blasco wrote:
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> > ATU. If you tune your radio into a 50 ohm load then there will
> > probably be a mis-match between the radio and the aerial. You can
> > either use your ATU to then match the aerial to the radio or skip the
> > ATU and re-tune your radio once connected to the aerial.
> >
> > The output circuit of your radio will generally be able to provide a
> > good match between your output tubes and the aerial. Might look bad
> > on an SWR meter set for 50 ohms but it will match none the less. If
> > you really want to use the ATU then tuning up into a dummy load first
> > will help you get repeatable results when working with most aerials.
> >
> > Lou - VK3ALB
> >
> >
> > At 15:10 03/02/2009, you wrote:
> >
> >> I was wondering if you tune the radio in to a dummy load(full power
> >> 100 watts) and then just pick your frequency and then use the antenna
> >> tuner to tune to the frequency?
> >>
> >> Or is it better to just tune the radio up on the frequency you want
> >> to use, and then use the antenna tuner?
> >>
> >>
> >> I mean if you tune the radio in to a dummy load wont the radio tuning
> >> be different when you are on a particular frequency?
> >>
> >>
> >> Thanks
> >
> >
> >
>
>--
>CUL8R
>
>KBOHAE kb0hae@... Martin Campbell
>
>A Satisfied Sidux Linux user! To get Sidux go to:
>www.sidux.com/index.html
>"Protect your digital freedom and privacy, eliminate DRM, learn more
>at http://www.defectivebydesign.org/what_is_drm"
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>Yahoo! Groups Links
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19995. Re: [TS-520_820_530_830] dummy load or frequency tuning.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-03 09:32:22 UTC
From: Adam Wade
Topic: 19989 Message: 19995

On Tuesday, February 03, 2009 12:40 AM [Zulu -7],
Lou Blasco <radio@...> wrote:

> If you have a dummy
> load and an ATU, fine, by all means tune up into the load first then
> adjust the ATU.

That is precisely how I tune up my 520S, and it has always been a quick and

simple proposition.

If you want to go a step further and be as "quiet" on the air as possible,
with the lowest possible chance of damaging your PA finals, you could also
adjust your (manual) ATU by driving it with an antenna analyzer. The one I

have (albeit not a cheap one!) puts out about 10 mW of RF, enough to adjust

the ATU with but likely not enough for much of anyone else to hear over the

noise floor on most of the HF bands. As an added bonus, because it does
real-time "sweeps" (with presets for the center and width of the current
ham
bands), you can see how wide your </= 2:1 SWR window is, or can adjust (as
you would when tuning an actual antenna) so that you are low throughout
your
area of interest in the band, or, if lucky, throughout the whole band, and
know where the ends of that range are so you can operate KNOWING you're
"ok"
within your chosen parameters (whereas tuning for lowest SWR on a given
frequency might not leave the rest of your operating range of interest all
within that </= 2:1 SWR window; there may be a better tune point so you
don't have to stop and re-tune as you move across the band, but that still
gives you a reasonable SWR for the freq you're about to work at the
moment).

> Tuning up on frequency? Eventually you do have to tune-up or adjust
> your ATU. Let's take the example of tuning up into a dummy load? You
> tune-up and are happy that you are getting maximum power transfer to
> the load. Great. Now you have to connect your TX to the ATU and then
> to the aerial, you still need to transmit on air to adjust your ATU
> to match the output of your TX to the aerial. This can take every bit
> as long as tuning the transmitter.

Or even longer, if you have a particularly reactive antenna (i.e., too
long/short for the band by a good bit) and haven't already marked down the
general area you need to set your dials to for a given frequency.

And absolutely correct about having to tune up through the antenna. After all, we're trying to match our rig, feed line, etc. into the ANTENNA, and depending on the antenna's size, configuration, and dielectric/conductivity

profiles of what's around it (ground, air, trees, etc.), it will present a different load to the feed line at a given frequency. We often use that to

our advantage without knowing it, and there's a tremendous amount of detail

and math that ultimately goes into all of that (like most things, it is deceptively simple on the surface and enormously complex once you start to peel back the layers). This is probably not the time or place, but even with my tiny sliver of knowledge about antennas and their behavior I could write extensively on the behavior of RF, feedlines and antennas. Many brilliant men have devoted their entire lives to the study and understanding
of them, and people are STILL making discoveries and arguing out whether various theories are correct or not, even today.

! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
! "I write down everything I want to remember. That way, instead !
! of spending a lot of time trying to remember what it is I wrote !
! down, I spend z time looking for the paper I wrote it down on." !
! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !

19996. Re: [TS-520_820_530_830] dummy load or frequency tuning.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-03 09:45:33 UTC
From: Adam Wade
Topic: 19989 Message: 19996

On Monday, February 02, 2009 8:10 PM [Zulu -7],
wvogel67 <wvogel67@...> wrote:

> I was wondering if you tune the radio in to a dummy load(full power
> 100 watts) and then just pick your frequency and then use the antenna
> tuner to tune to the frequency?

To clarify the debate that's started brewing, I'd probably advise you to
tune your RIG (or tube amp, if you are running an amp -- same idea here)
into a dummy load, then tune THAT into the antenna via an antenna tuner IF
(IF IF IF) you use an antenna tuner. IF (IF IF IF) your antenna/feedline
is
under 3:1 SWR at your operating frequency you most certainly can use the
tank circuit (which is just another impedance matching circuit, like your
ATU -- remember, the output impedance from a tube amplifier is typically
miles away from 50 ohms, or even 300 or 450 ohms of ladder line, so the
tank
circuit is matching your PA's output impedance to your feedline or
antenna's
input impedance) and forget all about using an antenna tuner -- in fact,
it's better to do so as you will lose less of your signal in tuning
circuots, so more of it can go out into the outside world. In fact, many
trapped antennas are designed so that if the antenna is properly set up and

adjusted, you should never have any need for an outboard ATU.

> I mean if you tune the radio in to a dummy load wont the radio tuning
> be different when you are on a particular frequency?

That ends up being a pretty complicated question, but unless your antenna
is
truly a horrendous match and the antenna tuner is going through
considerable
heroics trying to make the impedance "behave" nicely, there shouldn't
really
be a great deal of difference between the best setting of your tank circuit

into a 50 ohm (non-reactive) dummy load and into an ATU tuned for 50 ohms
impedance at a given frequency for a given antenna, installation, antenna
condition, wx, etc.

If you really want to get into the nitty gritty of impedance, reactance,
antenna design and construction, antenna adjustment (tuning), and what
various ATUs and tank circuits do, drop me a line. I can get you started
on
some of it, and most of the rest can be gotten from experimentation and
books. Some of the important basics are also contained in my previous

email
contribution to this thread.

! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
! "I write down everything I want to remember. That way, instead !
! of spending a lot of time trying to remember what it is I wrote !
! down, I spend z time looking for the paper I wrote it down on." !
! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !

19997. Re: DK-520 for TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-03 09:58:34 UTC
From: kc2pcr
Topic: 19974 Message: 19997

Marvelous work Gordon!! Very well done. You made it look simple ;)
Thanks for the effort & sharing the detailed step by step photo's
with us.
Best 73, Doug kc2pcr

> > > Here is a PDF of the Project. It works Great .
> > > http://www.n6wk.com/kenwood/DK-520-Project.pdf
> > >
> > > Thanks again Doug for the Installation Files.
> > >
> > > Gordon
> > > N6WK
> > >
> >
> > Nice photos, Gordon! The rareness of the DK-520 has kept me from
even
> > thinking about getting the digital display. Now, I just might
have to
> > give this a try. Am I correct in assuming that Ken has the
schematic
> > on his site?
> >
> > Tery
> > KD8GNC
> >
>

19998. Re: TS820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-03 11:04:18 UTC
From: bragucci
Topic: 9983 Message: 19998

same on USB, just 10-15w output, yet cw is a full 100w. I cleaned all
switches, same problem

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Bart,
>
> How is the output on USB, is it the same?
>
> I recommend cleaning the mode switch with contact cleaner.
>
> 73
> Mike
> W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "bragucci" <bragucci@>
> wrote:
> >
> > My TS820 was functioning fine two days ago. Today I turned it on,
> > tuned up on 40m and tried to transmit, only put out a few watts on
> > LSB. I tried CW and got my normal 100w out. I tried to tune up again
> > and was able to get 10-15w out, again CW was 100w out. I went over
> > the mic/connector and all connections are good. Any ideas!
> > Thx
> > Bart
> > KD8GTP
> >
>

19999. Re: TS820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-03 13:40:18 UTC
From: w5rkl
Topic: 9983 Message: 19999

What position is the MIC gain setting (8, 9, 10 o'clock)?

I use a Shure 444 with the MIC gain set between 9 and 10 o'clock. This results in a low ALC meter indication and about 20 watts output on my "average" Drake MN-2000 and Heathkit HM-102 watt meter. A low ALC reading is what you should strive for, not a high ALC reading.

If you are using the 820's RF meter setting, understand that the RF meter in the 820 is nothing more than a "relative" RF output meter. It is not a watt meter. It's showing a low reading then clean the RF pot on the rear panel and adjust the rear panel pot for 3/4 scale reading at 100 watt output on CW. Make sure you are adjusting the RF meter pot and not the bias pot.

Don't turn up the MIC gain to get a higher output on the watt meter. You will only cause adjacent interference, splatter. If you are receiving good audio reports and normal signal level reports then there's nothing wrong with your 820.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "bragucci" <bragucci@...>
wrote:
>
> same on USB, just 10-15w output, yet cw is a full 100w. I cleaned all
> switches, same problem
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Bart,
> >
> > How is the output on USB, is it the same?
> >
> > I recommend cleaning the mode switch with contact cleaner.
> >
> > 73
> > Mike
> > W5RKL
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "bragucci" <bragucci@>
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> > >
> > > My TS820 was functioning fine two days ago. Today I turned it on,

> > > tuned up on 40m and tried to transmit, only put out a few watts on
> > > LSB. I tried CW and got my normal 100w out. I tried to tune up
again
> > > and was able to get 10-15w out, again CW was 100w out. I went over
> > > the mic/connector and all connections are good. Any ideas!
> > > Thx
> > > Bart
> > > KD8GTP
> > >
> >
>

20000. Re: [TS-520_820_530_830] dummy load or frequency tuning.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-03 15:25:58 UTC
From: martin
Topic: 19989 Message: 20000

Hi Lou. I should have phrased that more diplomatically. I know that with a non resonant antenna, you need to use a tuner, and that some on-air adjustment is necessary sometimes. However, even on a clear frequency on-air adjustment of a tuner should be kept to a minimum, as you may be interfering with a QSO that you can't hear.

I do not use an automatic antenna tuner. I have an old MFJ-941D Versa Tuner II. I have made a table, and write down the tuner settings for each frequency of interest to me. That way, I can pre-set the tuner controls, and most of the time a quick check (2 very short transmissions) is all I need. Usually carefully pre-setting the tuner controls results in a 1.3:1 or lower match.

I do wish more people would keep on-air tuning and test transmissions to a minimum. I do tune up my TS-530S into a Heathkit Cantenna dummy load. I think that every Ham who has an HF radio should own a dummy load. Compared to the cost of an HF radio, the cost of a dummy load is trivial. There are plans to make dummy loads of various kinds, and building one is not difficult.

Sorry if I sounded a little harsh in my other message!

TTYL

Lou Blasco wrote:
> No need to be sorry Martin. Just a healthy discussion.
>
> I did say
>
> "Unless your aerial is a particularly poor match to the radio you can
> tune directly into your aerial"
>
> and
>
> " on a clear frequency"
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

20001. Re: [TS-520_820_530_830] dummy load or frequency tuning.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-03 15:33:40 UTC
From: Ron Pearson
Topic: 19989 Message: 20001

I take it one step further and use an MFJ-269 antenna analyzer to match the antenna to the 50 ohm signal. The signal from the analyzer is so low it is nearly non-existent, yet does the job well. An antenna analyzer is a very useful piece of equipment for all your antenna needs...
 Ron/W5RCP

100% CW, 100% of the Time
Fists#6259 & cc#1775, ARS#1799, FP#1047, NAQCC#483, SKCC#2922,
QRP-ARCI#13328, Houston QRP Club, HQRP Fists#11025, KCARC/Abilene, Zombie#839

From: martin <kb0hae@mchsi.com>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, February 3, 2009 9:25:58 AM
Subject: Re: [TS-520_820_530_830] dummy load or frequency tuning.

Hi Lou. I should have phrased that more diplomatically. I know that with a non resonant antenna, you need to use a tuner, and that some on-air adjustment is necessary sometimes. However, even on a clear frequency on-air adjustment of a tuner should be kept to a minimum, as you may be interfering with a QSO that you can't hear.

I do not use an automatic antenna tuner. I have an old MFJ-941D Versa Tuner II. I have made a table, and write down the tuner settings for each frequency of interest to me. That way, I can pre-set the tuner controls, and most of the time a quick check (2 very short transmissions) is all I need. Usually carefully pre-setting the tuner controls results in a 1.3:1 or lower match.

I do wish more people would keep on-air tuning and test transmissions to a minimum. I do tune up my TS-530S into a Heathkit Cantenna dummy load. I think that every Ham who has an HF radio should own a dummy load. Compared to the cost of an HF radio, the cost of a dummy load is trivial. There are plans to make dummy loads of various kinds, and building one is not difficult.

Sorry if I sounded a little harsh in my other message!

TTYL

Lou Blasco wrote:
> No need to be sorry Martin. Just a healthy discussion.
>
> I did say
>
> "Unless your aerial is a particularly poor match to the radio you can
> tune directly into your aerial"

>
> and
>
> " on a clear frequency"
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

Yahoo! Groups Links

[Non-text portions of this message have been removed]

20002. TS 830s: Problem with VOX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-03 09:32:14 UTC
From: hb9fap
Topic: 20002 Message: 20002

Hi all
I am a proud owner of a TS 830s since more than 20 years. I noticed in the past days a problem, that never happened before with my TS 830s. While transmitting on CW (with an external electronic keyer), the VOX started not working properly. I mean, by using the GAIN and DELAY all was OK, then it started to not switch anymore on Transmission. I noticed that by increasing the GAIN it was for a while working, but after a few times, there was simply no more switch by touching the paddles of the CW-Keyer. So at the moment the only way to transmit on CW is to switch the REC-SEND button to SEND before starting transmitting on CW. This is of course not very confortable.
I even noticed that the VOX does not work with the Microphone (even when on CW the VOX was still working, it was already not working with the Microphone).
Is there anybody who can have a suggestion, where the problem could be, and how to fix it?
Please apologize for my english, I hope it is good enough to let you understand what my problem is...

MANY thanks in adavance for any possible help!

73s from Switzerland, HB9FAP

20003. Re: [TS-520_820_530_830] dummy load or frequency tuning.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-03 17:08:20 UTC
From: David Lammers
Topic: 19989 Message: 20003

Hi Ron,
    That is exactly the way I do it also. I am not particularly a MFJ fan but the MFJ- 269 is a great addition to the Ham Shack. When I get all the setting numbers like Martin I write them all down in a log and what ever frequency I go to I don't have to do a complete tune up just adjust ever so slightly. That way I never have to annoy anybody by tuning up on any frequency creating unnecessary QRM.

From: Ron Pearson <iamw5rcp@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, February 3, 2009 10:33:40 AM
Subject: Re: [TS-520_820_530_830] dummy load or frequency tuning.

I take it one step further and use an MFJ-269 antenna analyzer to match the antenna to the 50 ohm signal. The signal from the analyzer is so low it is nearly non-existent, yet does the job well. An antenna analyzer is a very useful piece of equipment for all your antenna needs...
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100% CW, 100% of the Time
Fists#6259 & cc#1775, ARS#1799, FP#1047, NAQCC#483, SKCC#2922,
QRP-ARCI#13328, Houston QRP Club, HQRP Fists#11025, KCARC/Abilene, Zombie#839

From: martin <kb0hae@mchsi. com>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Tuesday, February 3, 2009 9:25:58 AM
Subject: Re: [TS-520_820_ 530_830] dummy load or frequency tuning.

Hi Lou. I should have phrased that more diplomatically. I know that with a non resonant antenna, you need to use a tuner, and that some on-air adjustment is necessary sometimes. However, even on a clear frequency on-air adjustment of a tuner should be kept to a minimum, as you may be interfering with a QSO that you can't hear.

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building one is not difficult.

Sorry if I sounded a little harsh in my other message!

TTYL

Lou Blasco wrote:
> No need to be sorry Martin. Just a healthy discussion.
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CUL8R

KBOHAE kb0hae@mchsi. com Martin Campbell

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www.sidux.com/ index.html
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Yahoo! Groups Links

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

20004. Re: [TS-520_820_530_830] TS 830s: Problem with VOX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-03 17:21:37 UTC
From: Adrian Ellison
Topic: 20002 Message: 20004

Hi there,

Have you tried giving the anti-vox potentiometer on the rear panel a sweep
from endstop to enstop a few times?

Adrian / ZS1TTZ

On Tuesday 03 February 2009 11:32:14 hb9fap wrote:
> Hi all
> I am a proud owner of a TS 830s since more than 20 years. I noticed in
> the past days a problem, that never happened before with my TS 830s.
> While transmitting on CW (with an external electronic keyer), the VOX
> started not working properly. I mean, by using the GAIN and DELAY all
> was OK, then it started to not switch anymore on Transmission. I
> noticed that by increasing the GAIN it was for a while working, but
> after a few times, there was simply no more switch by touching the
> paddles of the CW-Keyer. So at the moment the only way to transmit on
> CW is to switch the REC-SEND button to SEND before starting
> transmitting on CW. This is of course not very confortable.
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> when on CW the VOX was still working, it was already not working with
> the Microphone).
> Is there anybody who can have a suggestion, where the problem could
> be, and how to fix it?
> Please apologize for my english, I hope it is good enough to let you
> understand what my problem is...
>
> MANY thanks in adavance for any possible help!
>
> 73s from Switzerland, HB9FAP

20005. Re: TS530s sudden problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-03 21:35:46 UTC
From: megenr
Topic: 19793 Message: 20005

Just wanted to thank you Gordon for getting me back on the air. I received the HV Cap kit from K4eaa in the mail yesterday. Got my nerve up and took the rig apart, changed out the HV caps and bleedoff resistors, only took me 3 hours (would have taken anybody else 15 minutes, but I was scared stiff I might screw it up).

Well, fired it up and as they say, it is better to be lucky than good. I made several contacts, have my full power back and my audio reports were great. Also checked out my CW tone, which had been bad. Working good, nice clean CW tone. Thanks again for your help in getting my TS530s of 30 years back on the air...
73, Ron Megen N4PEG

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Your HV Caps have gone Bad.
> Replace them and your HV will be back up over 800 volts and the
Radio
> will come back to Life.
> K4EAA sells HV Cap kits very reasonable.
>
> Gordon
> N6WK
>
> --- In TS-520_820_530_830@yahoogroups.com, R Megen <megenr@> wrote:
> >
> > Hi Gordon, my meter on front of rig shows 400 Volts. By the way,
> the receiver section appears not affected, still receiving
excellent.
> Thanks, Ron Megen N4PEG
> >
> > --- On Fri, 1/23/09, Gordon <n6wk@> wrote:
> >
> > From: Gordon <n6wk@>
> > Subject: [TS-520_820_530_830] Re: TS530s sudden problem
> > To: TS-520_820_530_830@yahoogroups.com
> > Date: Friday, January 23, 2009, 4:50 PM
> >
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> >
> > What does your HV read?
> >

> > Gordon
> > N6WK
> >
> > --- In TS-520_820_530_ 830@yahoogroups. com, "megenr" <megenr@>
wrote:
> > >
> > > I have had my TS530s for 20 years, never had problem till last
week.
> > > The rig has gone from 100 watts output and excellent audio, to
how it
> > > is now, about 20 watts output on SSB, 50 watts on CW, and have
gotten
> > > bad audio reports now, along with a bad raspy CW signal . This
all
> > > happened overnight.
> > >
> > > I changed the 12by7a driver, no change. I changed both 6146Bs
with a
> > > pair of unknown condition from a hamfest. Also no change. I put
the
> > > original tubes back in, no change.
> > >
> > > Idle current 60ma. CW IP now 125ma, used to be 230ma. Same for
SSB.
> > >
> > > Nothing in final section looks burnt, but this was my first
look
> > > inside, so I don't trust my own observations.
> > >
> > > Since I dont trust the hamfest finals and driver, I thought I
> would put
> > > this out to you all before I take a gamble on buying all new
> tubes, at
> > > over $100. If that didnt fix the problem of my beloved rig, I
am sure
> > > my wife would remind me of it the rest of my life. HELP
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> > [Non-text portions of this message have been removed]
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20006. Re: [TS-520_820_530_830] Re: TS530s sudden problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-03 21:50:10 UTC
From: N6WK
Topic: 19793 Message: 20006

That is what the group is all about Ron.
Helping each other.
Happy you are back up and running.
73,
Gordon
N6WK

megenr wrote:
>
> Just wanted to thank you Gordon for getting me back on the air. I
> received the HV Cap kit from K4eaa in the mail yesterday. Got my
> nerve up and took the rig apart, changed out the HV caps and bleedoff
> resistors, only took me 3 hours (would have taken anybody else 15
> minutes, but I was scared stiff I might screw it up).
>
> Well, fired it up and as they say, it is better to be lucky than
> good. I made several contacts, have my full power back and my audio
> reports were great. Also checked out my CW tone, which had been
> bad. Working good, nice clean CW tone. Thanks again for your help
> in getting my TS530s of 30 years back on the air...
> 73, Ron Megen N4PEG
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Gordon" <n6wk@...> wrote:
> >
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> > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, R Megen <megenr@> wrote:
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> > > Hi Gordon, my meter on front of rig shows 400 Volts. By the way,
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> excellent.
> > Thanks, Ron Megen N4PEG
> > >
> > > --- On Fri, 1/23/09, Gordon <n6wk@> wrote:
> > >
> > > From: Gordon <n6wk@>

> > > Subject: [TS-520_820_530_830] Re: TS530s sudden problem
> > > To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > > Date: Friday, January 23, 2009, 4:50 PM
> > >
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> > >
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20007. K0ZL (SK)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-03 22:35:15 UTC
From: Walter A. Breining
Topic: 20007 Message: 20007

I saw this on the Amateur-repairs site.

Bill Leahy K0ZL founded this group TS-520_820_530_830@yahoogroups.com and
the KenwoodMics group among others.
Bill was the formost expert on Kenwood Hybrids and operated a repair service
B&B Technicial Services with his Wife Bonnie, servicing most types of ham
gear.
He was an electrican at MillerCoors brewing plant in golden Colorado and
often went by Coors Bill.
Bill was a strong Christian and played gospel music.
He helped myself and countless others restoring Kenwood Hybrids.
We will miss Bill very much and his passing is a great loss to the Amateur
Radio community.

Vy 73, Walt N9WB

----- Original Message -----
From: kb0vof
To: Amateur-repairs@yahoogroups.com
Sent: Tuesday, February 03, 2009 1:03 PM
Subject: [Amateur-repairs] K0ZL (SK)

God bless Bonnie at this difficult time.

Worker dies at MillerCoors plant in Golden
By Kieran Nicholson
The Denver Post
Posted: 02/03/2009 09:34:22 AM MST
Updated: 02/03/2009 10:08:50 AM MST

A 54-year-old worker died Monday night in an apparent accident at the
MillerCoors plant in Golden.

The body of William Leahy, an electrician at the plant and a 30-year
employee of Coors, was found by co-workers at about 9:30 p.m., said
Aimee Valdez, a MillerCoors spokeswoman.

The death, being investigated by the Jefferson County Sheriff's
Office, does not appear to be suspicious, said Jacki Kelley, a
sheriff's spokeswoman.

"Leahy was well-regarded by his coworkers and our condolences go out
to the Leahy family and Bill's friends during this difficult time," a
MillerCoors company statement said.

The brewer will provide support and counseling to employees who are
impacted by Leahy's death, the statement said.

Kieran Nicholson: 303-954-1822 or knicholson@....

20008. Re: [TS-520_820_530_830] K0ZL (SK)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-03 22:40:17 UTC
From: N6WK
Topic: 20007 Message: 20008

That is Horrible.
Bill was the one that invited me to this group, way back when, and asked
me to be his moderator.
I am deeply saddened by this news.
God Bless Bonnie and his Family.
Yes, His passing is a great Loss for all.
73,
Gordon

Walter A. Breining wrote:
>
> I saw this on the Amateur-repairs site.
>
> Bill Leahy K0ZL founded this group TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com> and
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> Radio community.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: kb0vof
> To: Amateur-repairs@yahoogroups.com
> <mailto:Amateur-repairs%40yahoogroups.com>
> Sent: Tuesday, February 03, 2009 1:03 PM
> Subject: [Amateur-repairs] K0ZL (SK)
>
> God bless Bonnie at this difficult time.
>
> Worker dies at MillerCoors plant in Golden
> By Kieran Nicholson
> The Denver Post
> Posted: 02/03/2009 09:34:22 AM MST
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>
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> to the Leahy family and Bill's friends during this difficult time," a
> MillerCoors company statement said.
>
> The brewer will provide support and counseling to employees who are
> impacted by Leahy's death, the statement said.
>
> Kieran Nicholson: 303-954-1822 or knicholson@...
> <mailto:knicholson%40denverpost.com>.
>
>
> Messages in this topic
> <http://groups.yahoo.com/group/TS-520_820_530_830/message/20007;_ylc=X3oDMTM2NzFsM2dvBF9
TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzIwMDA3BHNlYwNmdHIEc2xrA
3Z0cGMEc3RpbWUDMTIzMzcwMDUzNAR0cGNJZAMyMDAwNw-->
> (1)
> <http://groups.yahoo.com/group/TS-520_820_530_830/post;_ylc=X3oDMTJxZGJmajBkBF9TAzk3MzU5
NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzIwMDA3BHNlYwNmdHIEc2xrA3JwbHkEc3
RpbWUDMTIzMzcwMDUzNA--?act=reply&messageNum=20007>
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20009. Re: [TS-520_820_530_830] K0ZL (SK)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-03 23:01:03 UTC
From: vu2jmx
Topic: 20007 Message: 20009

My sincere condolences to his xyl Bonnie and all the folks on this forum who knew Coors Bill.

Aron
VA3UMA

--- On Tue, 2/3/09, Walter A. Breining <n9wb@...> wrote:

> From: Walter A. Breining <n9wb@...>
> Subject: [TS-520_820_530_830] K0ZL (SK)
> To: TS-520_820_530_830@yahoogroups.com
> Received: Tuesday, February 3, 2009, 5:35 PM
> I saw this on the Amateur-repairs site.
>
> Bill Leahy K0ZL founded this group
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> ----- Original Message -----
> From: kb0vof
> To: Amateur-repairs@yahoogroups.com
> Sent: Tuesday, February 03, 2009 1:03 PM
> Subject: [Amateur-repairs] K0ZL (SK)
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> Kieran Nicholson: 303-954-1822 or
> knicholson@....
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20010. Re: TS820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-04 02:18:16 UTC
From: bragucci
Topic: 9983 Message: 20010

I;m sorry, but when I say 100w, that reading is from my antenna tuner meter. All my controls are set as usual, MIC gain, etc. When I try to transmit on LSB or USB the antenna tuner meter shows about 15w, in CW it shows 100w. My SSB is always around 100w out put, suddenly only 15w. I didn't explain too well the first time, sorry. I have had the radio over 1 year and have always had 100w or more output on SSB. The radio wasn't used for a few days and when I turned it on and tuned up I only had 15w out as shown on the antenna tuner meter.
So, something has made my output on SSB drop by about 85w, again CW is a good 100w out put. Could it be the driver tube? Are there any measurement tests I can make using the meter on the radio that may show what happened to reduce the power?
Help is appreciated!
Thx
Bart
KD8GTP

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
>
> What position is the MIC gain setting (8, 9, 10 o'clock)?
>
> I use a Shure 444 with the MIC gain set between 9 and 10 o'clock. This
> results in a low ALC meter indication and about 20 watts output on my
> "average" Drake MN-2000 and Heathkit HM-102 watt meter. A low ALC
> reading is what you should strive for, not a high ALC reading.
>
> If you are using the 820's RF meter setting, understand that the RF
> meter in the 820 is nothing more than a "relative" RF output meter. It
> is not a watt meter. It's showing a low reading then clean the RF pot
> on the rear panel and adjust the rear panel pot for 3/4 scale reading
> at 100 watt output on CW. Make sure you are adjusting the RF meter pot
> and not the bias pot.
>
> Don't turn up the MIC gain to get a higher output on the watt meter.
> You will only cause adjacent interference, splatter. If you are
> receiving good audio reports and normal signal level reports then
> there's nothing wrong with your 820.
>
> 73
> Mike
> W5RKL
>
>
>

>
> --- In TS-520_820_530_830@yahoogroups.com, "bragucci" <bragucci@>
> wrote:
> >
> > same on USB, just 10-15w output, yet cw is a full 100w. I cleaned all
> > switches, same problem
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > >
> > > Bart,
> > >
> > > How is the output on USB, is it the same?
> > >
> > > I recommend cleaning the mode switch with contact cleaner.
> > >
> > > 73
> > > Mike
> > > W5RKL
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "bragucci" <bragucci@>
> > > wrote:
> > > >
> > > > My TS820 was functioning fine two days ago. Today I turned it on,
> > > > tuned up on 40m and tried to transmit, only put out a few watts on
> > > > LSB. I tried CW and got my normal 100w out. I tried to tune up
> again
> > > > and was able to get 10-15w out, again CW was 100w out. I went
over
> > > > the mic/connector and all connections are good. Any ideas!
> > > > Thx
> > > > Bart
> > > > KD8GTP
> > > >
> > >
> > >
> >
>

20011. Frequency Display Jumping

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-04 03:46:20 UTC
From: n5pef@ymail.com
Topic: 20011 Message: 20011

I was wondering if anyone can help me on this problem.
I have a TS-830S and when I first turn it on the frequency display is working fine. About 10 to 15 minutes the display starts to jump around a little bit. As it warms up the more inaccurate it becomes.
The receive a transmit is not moving only the frequency display.
Is there anyone ever had this problem and or know what I should look at to fix this problem.
I would appreciate anyone who can help me with this.
Thanks and 73s
N5PEF

20012. Re: [TS-520_820_530_830] Frequency Display Jumping

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-04 04:34:30 UTC
From: N6WK
Topic: 20011 Message: 20012

I would start by cleaning and checking all the Connections on the PLL board.
Just my thoughts.

73,
Gordon
N6WK

n5pef@... wrote:
>
> I was wondering if anyone can help me on this problem.
> I have a TS-830S and when I first turn it on the frequency display is
> working fine. About 10 to 15 minutes the display starts to jump around
> a little bit. As it warms up the more inaccurate it becomes.
> The receive a transmit is not moving only the frequency display.
> Is there anyone ever had this problem and or know what I should look at
> to fix this problem.
> I would appreciate anyone who can help me with this.
> Thanks and 73s
> N5PEF
>
>
s.

20013. Re: TS820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-04 12:33:57 UTC
From: w5rkl
Topic: 9983 Message: 20013

Hello Bart,

If you have 100 watts output on CW then the driver tube is not the problem.

You might try cleaning the MIC gain control with contact cleaner then rotate the MIC gain throughout it's travel a few times then check the output on sideband again.

You also might check the final amplifier's idling current, it should be 60ma. With the meter switch set to "IP", press the PTT button on the microphone the meter should read 60ma. If it's not then with the PTT button pressed, adjust the rear panel bias pot so the meter reads 60ma. This procedure is outlined in the 820's operator's manual.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "bragucci" <bragucci@...> wrote:
>
> I;m sorry, but when I say 100w, that reading is from my antenna tuner
> meter. All my controls are set as usual, MIC gain, etc. When I try
> to transmit on LSB or USB the antenna tuner meter shows about 15w, in
> CW it shows 100w. My SSB is always around 100w out put, suddenly only
> 15w. I didn't explain too well the first time, sorry. I have had the
> radio over 1 year and have always had 100w or more output on SSB. The
> radio wasn't used for a few days and when I turned it on and tuned up
> I only had 15w out as shown on the antenna tuner meter.
> So, something has made my output on SSB drop by about 85w, again CW is
> a good 100w out put. Could it be the driver tube? Are there any
> measurement tests I can make using the meter on the radio that may
> show what happened to reduce the power?
> Help is appreciated!
> Thx
> Bart
> KD8GTP
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> >
> > What position is the MIC gain setting (8, 9, 10 o'clock)?
> >

> > I use a Shure 444 with the MIC gain set between 9 and 10 o'clock. This
> > results in a low ALC meter indication and about 20 watts output on my
> > "average" Drake MN-2000 and Heathkit HM-102 watt meter. A low ALC
> > reading is what you should strive for, not a high ALC reading.
> >
> > If you are using the 820's RF meter setting, understand that the RF
> > meter in the 820 is nothing more than a "relative" RF output meter. It
> > is not a watt meter. It's showing a low reading then clean the RF pot
> > on the rear panel and adjust the rear panel pot for 3/4 scale reading
> > at 100 watt output on CW. Make sure you are adjusting the RF meter pot
> > and not the bias pot.
> >
> > Don't turn up the MIC gain to get a higher output on the watt meter.
> > You will only cause adjacent interference, splatter. If you are
> > receiving good audio reports and normal signal level reports then
> > there's nothing wrong with your 820.
> >
> > 73
> > Mike
> > W5RKL
> >
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "bragucci" <bragucci@>
> > wrote:
> > >
> > > same on USB, just 10-15w output, yet cw is a full 100w. I
cleaned all
> > > switches, same problem
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > > >
> > > > Bart,
> > > >
> > > > How is the output on USB, is it the same?
> > > >
> > > > I recommend cleaning the mode switch with contact cleaner.
> > > >
> > > > 73
> > > > Mike
> > > > W5RKL
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "bragucci" <bragucci@>
> > > > wrote:
> > > > >
> > > > > My TS820 was functioning fine two days ago. Today I turned
it on,
> > > > > tuned up on 40m and tried to transmit, only put out a few

watts on
> > > > > LSB. I tried CW and got my normal 100w out. I tried to tune up
> > again
> > > > > and was able to get 10-15w out, again CW was 100w out. I went
> over
> > > > > the mic/connector and all connections are good. Any ideas!
> > > > > Thx
> > > > > Bart
> > > > > KD8GTP
> > > > >
> > > >
> > >
> >
>

20014. Re: K0ZL (SK)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-04 14:29:13 UTC
From: Angelica
Topic: 20007 Message: 20014

Passing away at such a young age. I never talked with him but I'm sure glad he founded this group.

Angie KD8HMS

Re: 6a. K0ZL (SK)
Posted by: "Walter A. Breining" n9wb@... n9wb
Date: Tue Feb 3, 2009 2:35 pm ((PST))

I saw this on the Amateur-repairs site.

Bill Leahy K0ZL founded this group TS-520_820_530_830@yahoogroups.com and
the KenwoodMics group among others.
Bill was the formost expert on Kenwood Hybrids and operated a repair service
B&B Technicial Services with his Wife Bonnie, servicing most types of ham
gear.
He was an electrican at MillerCoors brewing plant in golden Colorado and
often went by Coors Bill.
Bill was a strong Christian and played gospel music.
He helped myself and countless others restoring Kenwood Hybrids.
We will miss Bill very much and his passing is a great loss to the Amateur
Radio community.

Vy 73, Walt N9WB

20015. Re: TS820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-04 16:06:32 UTC
From: al_kozakiewicz
Topic: 9983 Message: 20015

My question is: under what conditions were you measuring 100W output on SSB? Were you feeding a test tone into the audio input? Or just speaking into a microphone?

Al
AB2ZY

--- In TS-520_820_530_830@yahoogroups.com, "bragucci" <bragucci@...> wrote:
>
> I;m sorry, but when I say 100w, that reading is from my antenna tuner
> meter. All my controls are set as usual, MIC gain, etc. When I try
> to transmit on LSB or USB the antenna tuner meter shows about 15w, in
> CW it shows 100w. My SSB is always around 100w out put, suddenly only
> 15w. I didn't explain too well the first time, sorry. I have had the
> radio over 1 year and have always had 100w or more output on SSB. The
> radio wasn't used for a few days and when I turned it on and tuned up
> I only had 15w out as shown on the antenna tuner meter.
> So, something has made my output on SSB drop by about 85w, again CW is
> a good 100w out put. Could it be the driver tube? Are there any
> measurement tests I can make using the meter on the radio that may
> show what happened to reduce the power?
> Help is appreciated!
> Thx
> Bart
> KD8GTP
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> >
> > What position is the MIC gain setting (8, 9, 10 o'clock)?
> >
> > I use a Shure 444 with the MIC gain set between 9 and 10 o'clock. This
> > results in a low ALC meter indication and about 20 watts output on my

> > "average" Drake MN-2000 and Heathkit HM-102 watt meter. A low ALC
> > reading is what you should strive for, not a high ALC reading.
> >
> > If you are using the 820's RF meter setting, understand that the
RF
> > meter in the 820 is nothing more than a "relative" RF output
meter. It
> > is not a watt meter. It's showing a low reading then clean the RF
pot
> > on the rear panel and adjust the rear panel pot for 3/4 scale
reading
> > at 100 watt output on CW. Make sure you are adjusting the RF
meter pot
> > and not the bias pot.
> >
> > Don't turn up the MIC gain to get a higher output on the watt
meter.
> > You will only cause adjacent interference, splatter. If you are
> > receiving good audio reports and normal signal level reports then
> > there's nothing wrong with your 820.
> >
> > 73
> > Mike
> > W5RKL
> >
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "bragucci" <bragucci@>
> > wrote:
> > >
> > > same on USB, just 10-15w output, yet cw is a full 100w. I
cleaned all
> > > switches, same problem
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@>
wrote:
> > > >
> > > > Bart,
> > > >
> > > > How is the output on USB, is it the same?
> > > >
> > > > I recommend cleaning the mode switch with contact cleaner.
> > > >
> > > > 73
> > > > Mike
> > > > W5RKL
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "bragucci"

<bragucci@>
> > > > wrote:
> > > > >
> > > > > My TS820 was functioning fine two days ago. Today I turned
it on,
> > > > > tuned up on 40m and tried to transmit, only put out a few
watts on
> > > > > LSB. I tried CW and got my normal 100w out. I tried to
tune up
> > again
> > > > > and was able to get 10-15w out, again CW was 100w out. I
went
> over
> > > > > the mic/connector and all connections are good. Any ideas!
> > > > > Thx
> > > > > Bart
> > > > > KD8GTP
> > > > > >
> > > > >
> > > >
> > >
> >

20016. Re: Frequency Display Jumping

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-04 16:18:14 UTC
From: Bob Mansker
Topic: 20011 Message: 20016

Try cleaning the push-on connectors with a little of DeoXIT...
Also remove & install the mounting screws....
I do have bright steady Freq. Readout units for the TS-830S that I am selling...
Bob
73s
KE5FTF
****

--- In TS-520_820_530_830@yahoogroups.com, "n5pef@..." <n5pef@...> wrote:
>
> I was wondering if anyone can help me on this problem.
> I have a TS-830S and when I first turn it on the frequency display is
> working fine. About 10 to 15 minutes the display starts to jump around
> a little bit. As it warms up the more inaccurate it becomes.
> The receive a transmit is not moving only the frequency display.
> Is there anyone ever had this problem and or know what I should look at
> to fix this problem.
> I would appreciate anyone who can help me with this.
> Thanks and 73s
> N5PEF
>

20017. Re: Frequency Display Jumping

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-04 16:35:56 UTC
From: w5rkl
Topic: 20011 Message: 20017

In addition to Gordon's suggestion I also recommend checking and, if necessary, adjust the two AF UNIT pots for the following voltages:

1. The voltage at TP-6 should measure 9VDC. If it does not, adjust VR4 on the AF UNIT so the voltage at TP-6 is 9VDC.

2. The voltage a plug 9 pin 5 should measure 3.6VDC. If it does not, adjust VR3 on the AF UNIT so the voltage at plug 9 pin 5 is 3.6VDC.

The AF UNIT board is located on the bottom of the 830. With the bottom cover removed and the 830 upside down and the front panel facing you, the AF UNIT board is on the left closest to the front panel. There are two plugs on the rear of the board. Plug 9 is the plug on the right. Pin numbers run left to right, 1, 2, 3, etc. Plug 9 will be labeled "RF1". The 3.6VDC voltage adjust pot, VR3, is located just forward of plug 9/RF1.

TP6 is located on the left front of the AF UNIT. The 9VDC voltage adjust pot, VR4, is the "left" pot between TP6 and the front panel. The pot just to the right of VR4 is VR1, the sidetone pot.

The 830 should be in receive when measuring and, if necessary, adjusting the two pots on the AF UNIT for the corresponding correct voltages.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@...> wrote:
>
> I would start by cleaning and checking all the Connections on the PLL board.
> Just my thoughts.
>
> 73,
> Gordon
> N6WK
>
>
>
> n5pef@... wrote:
> >
> > I was wondering if anyone can help me on this problem.
> > I have a TS-830S and when I first turn it on the frequency display is
> > working fine. About 10 to 15 minutes the display starts to jump around
> > a little bit. As it warms up the more inaccurate it becomes.

> > The receive a transmit is not moving only the frequency display.
> > Is there anyone ever had this problem and or know what I should
look at
> > to fix this problem.
> > I would appreciate anyone who can help me with this.
> > Thanks and 73s
> > N5PEF
> >
> >
> s.
>

20018. Re: TS 830s: Problem with VOX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-04 08:47:53 UTC
From: hb9fap
Topic: 20002 Message: 20018

Hi Adrian
Many thanks for your answer. I tried last night to do what you told
me, unfortunately without success.
Anymore suggestions?
Thanks de Fabio, HB9FAP
--- In TS-520_820_530_830@yahoogroups.com, Adrian Ellison
<ellisona@...> wrote:
>
> Hi there,
>
> Have you tried giving the anti-vox potentiometer on the rear panel a
sweep
> from endstop to enstop a few times?
>
> Adrian / ZS1TTZ
>
> On Tuesday 03 February 2009 11:32:14 hb9fap wrote:
> > Hi all
> > I am a proud owner of a TS 830s since more than 20 years. I noticed in
> > the past days a problem, that never happened before with my TS 830s.
> > While transmitting on CW (with an external electronic keyer), the VOX
> > started not working properly. I mean, by using the GAIN and DELAY all
> > was OK, then it started to not switch anymore on Transmission. I
> > noticed that by increasing the GAIN it was for a while working, but
> > after a few times, there was simply no more switch by touching the
> > paddles of the CW-Keyer. So at the moment the only way to transmit on
> > CW is to switch the REC-SEND button to SEND before starting
> > transmitting on CW. This is of course not very confortable.
> > I even noticed that the VOX does not work with the Microphone (even
> > when on CW the VOX was still working, it was already not working with
> > the Microphone).
> > Is there anybody who can have a suggestion, where the problem could
> > be, and how to fix it?
> > Please apologize for my english, I hope it is good enough to let you
> > understand what my problem is...
> >
> > MANY thanks in adavance for any possible help!
> >
> > 73s from Switzerland, HB9FAP
>

20019. coors Bill-sk

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-04 17:51:31 UTC
From: G Bay
Topic: 20019 Message: 20019

I found this group when Bill was still running it. He was
giving away knowledge that I'm sure had cost him both
time and money to acquire as he said "to give back to ham radio".
Quite a guy
rest in peace

[Non-text portions of this message have been removed]

20020. Re: TS 830s: Problem with VOX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-04 20:04:13 UTC
From: w5rkl
Topic: 20002 Message: 20020

Hi Fabio,

It appears the problem in both sideband and CW is the VOX amplifier's VOX GAIN control may be in the VOX GAIN control. If this control is dirty or set too low, either intermittent or no VOX operation will occur whether in CW or sideband. Adjust the VOX GAIN control to see if this helps. I also recommend cleaning the VOX GAIN control with contact cleaner then rotate the control a couple of time then check for properly CW break-in operation and sideband VOX. If this does not fix the problem, check the 9VDC and 3.6VDC on the AF UNIT.

To check the voltages on the AF UNIT, remove the bottom cover and turn the 830 upside down with the front panel facing you. The AF UNIT is the board on the left. There are 2 plugs on the back part of the AF UNIT. The plug you want is on the right and it should be labeled "RF1". The pin numbering is from left to right, 1, 2, 3, etc. Pin 5 should measure 3.6VDC. If the voltage is not 3.6VDC (+/-.05VDC) then adjust VR3 so pin 5 on plug 9 (RF1) reads 3.6VDC. VR3 is just forward of plug 9. Make sure you are adjusting VR3 and not VR2. The 9VDC is measured at TP6, also on the AF UNIT. TP6 is located on the front part of the AF UNIT board. If the voltage at TP6 is not 9VDC, adjust VR4, forward and to the left of TP6, for a voltage reading of 9VDC at TP6.

Once these two voltages are checked and, if required, adjusted to their respective voltages, check CW break-in and sideband VOX operation. You may need to re-adjust the VOX GAIN control. The voltage adjustments are performed with the 830 in "receive" not transmit!

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "hb9fap" <hb9fap@...> wrote:
>
> Hi Adrian
> Many thanks for your answer. I tried last night to do what you told
> me, unfortunately without success.
> Anymore suggestions?
> Thanks de Fabio, HB9FAP
> --- In TS-520_820_530_830@yahoogroups.com, Adrian Ellison
> <ellisona@> wrote:
> >
> > Hi there,
> >
> > Have you tried giving the anti-vox potentiometer on the rear panel a
> sweep

> > from endstop to enstop a few times?
> >
> > Adrian / ZS1TTZ
> >
> > On Tuesday 03 February 2009 11:32:14 hb9fap wrote:
> > > Hi all
> > > I am a proud owner of a TS 830s since more than 20 years. I
noticed in
> > > the past days a problem, that never happened before with my TS 830s.
> > > While transmitting on CW (with an external electronic keyer),
the VOX
> > > started not working properly. I mean, by using the GAIN and
DELAY all
> > > was OK, then it started to not switch anymore on Transmission. I
> > > noticed that by increasing the GAIN it was for a while working, but
> > > after a few times, there was simply no more switch by touching the
> > > paddles of the CW-Keyer. So at the moment the only way to
transmit on
> > > CW is to switch the REC-SEND button to SEND before starting
> > > transmitting on CW. This is of course not very confortable.
> > > I even noticed that the VOX does not work with the Microphone (even
> > > when on CW the VOX was still working, it was already not working
with
> > > the Microphone).
> > > Is there anybody who can have a suggestion, where the problem could
> > > be, and how to fix it?
> > > Please apologize for my english, I hope it is good enough to let you
> > > understand what my problem is...
> > >
> > > MANY thanks in adavance for any possible help!
> > >
> > > 73s from Switzerland, HB9FAP
> >
>

20021. TS 530S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-04 19:54:56 UTC
From: Jerry Harley
Topic: 14354 Message: 20021

What is the normal open contact for connecting to an amplifier to key the transmitter. It appears there are different plugs and pin number for each of the TS 520's 5030 530s's and sp's. I need the pin numbers for the 530SP. Jerry

20022. Re: TS 530S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-04 20:25:59 UTC
From: w5rkl
Topic: 14354 Message: 20022

Hi Jerry,

First, an amplifier does not key a transmitter. The 530's rear DIN socket pins 2 and 4 are the pins you want to use to connect an amplifier's T/R relay pins to the 530's rear din socket. Make sure you use the REMOTE socket and NOT the VFO socket, they both look the same!! The VFO socket is the one closest to the right rear edge of the rear panel. The REMOTE socket is next to the fuse on the 530's rear panel.

If you don't have the 530's manual you can download it from Kenwood at the following website site:

http://www.kenwoodusa.com/Support/AMA_Radios/#_

Scroll down and you will see "Amateur Radio Manuals". Click on the drop down menu and scroll and click on "TS-530SP". Once the "DOWNLOAD" appears, click on "DOWNLOAD" to get the manual. The REMOTE DIN socket pin connections are on page 24.

What amplifier are you considering using with your 530? Most modern amplifiers will work fine with the 530. However, there are some older vintage amplifiers such as the SB-200 that have use high voltage on their relays, 100VDC or higher. Just be sure you are aware of this when using older vintage amplifiers with the 530.

73
Mike
W5RKL

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Jerry Harley <wa2tti@...>
wrote:
>
> What is the normal open contact for connecting to an amplifier to key
> the transmitter. It appears there are different plugs and pin number
> for each of the TS 520's 5030 530s's and sp's. I need the pin numbers
> for the 530SP. Jerry
>

20023. Re:K0ZL (SK)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-04 23:30:52 UTC
From: Rich Jones
Topic: 20007 Message: 20023

Very sad to hear of Bill's passing at such a young age. He will be soorly missed by us all. Condolences to his family from SE Michigan. Very sincerely, Rich K8UV

[Non-text portions of this message have been removed]

20024. ALC dropoff TS530sp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-05 00:49:57 UTC
From: rickoreair
Topic: 20024 Message: 20024

Wondering if I'm on the right track in ordering a new driver tube for my 530. When I have the rig in the TUNE position, and try to peak the alc with the drive control, I get an almost full scale reading, and then a rapid dropoff . In addition the Ip dip is relatively broad, (not real sharp), and the load has a very broad "peak"-meter scale on rf. Am I headed in the right direction??? Thanks in advance for any help.

Rick WB4BSP

20025. Looking for Suggestions on Auto Tuner.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-05 01:05:23 UTC
From: latetomemphis
Topic: 20025 Message: 20025

Hi, I've got a Kenwood TS-820 transceiver and I'm using a couple of G5RV antennas (10-40 & 10-80).

I'm thinking that I would like an auto antenna tuner with memories, and am open to suggestions (or even offers for that matter).

Thanks in advance,
KB3QMT

20026. Re: [TS-520_820_530_830] ALC dropoff TS530sp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-05 01:14:17 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20024 Message: 20026

On Thu, 2009-02-05 at 00:49 +0000, rickoreair wrote:
> Wondering if I'm on the right track in ordering a new driver tube for
> my 530. When I have the rig in the TUNE position, and try to peak the
> alc with the drive control, I get an almost full scale reading, and
> then a rapid dropoff . In addition the Ip dip is relatively broad,
> (not real sharp), and the load has a very broad "peak"-meter scale on
> rf. Am I headed in the right direction??? Thanks in advance for any
> help.

I think that depends what band you're on. My TS-520 has a pretty broad peak on the drive control, with a narrow deep dip on the anode current when I tune up on 14MHz, but on 3.5MHz the drive control has a strong narrow peak and only a very shallow, vague dip on the anode tuning on 3.5MHz.

It doesn't seem to stop it working, it just means I need to be a bit careful when I'm tuning up. No doubt someone will tell me why this is a terrible problem that must be attended to right away...

Gordon

20027. Re: ALC dropoff TS530sp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-05 01:18:32 UTC
From: rickoreair
Topic: 20024 Message: 20027

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce MM3YEQ
<gordon@...> wrote:
>
> On Thu, 2009-02-05 at 00:49 +0000, rickoreair wrote:
> > Wondering if I'm on the right track in ordering a new driver tube
for
> > my 530. When I have the rig in the TUNE position, and try to
peak the
> > alc with the drive control, I get an almost full scale reading,
and
> > then a rapid dropoff . In addition the Ip dip is relatively
broad,
> > (not real sharp), and the load has a very broad "peak"-meter
scale on
> > rf. Am I headed in the right direction??? Thanks in advance for
any
> > help.
>
> I think that depends what band you're on. My TS-520 has a pretty
broad
> peak on the drive control, with a narrow deep dip on the anode
current
> when I tune up on 14MHz, but on 3.5MHz the drive control has a
strong
> narrow peak and only a very shallow, vague dip on the anode tuning
on
> 3.5MHz.
>
> It doesn't seem to stop it working, it just means I need to be a bit
> careful when I'm tuning up. No doubt someone will tell me why this
is a
> terrible problem that must be attended to right away...
>
> Gordon
>
Thanks Gordon, The broad dip/peak doesn't worry me as much as the
rapid ALC dropoff.

20028. Re: [TS-520_820_530_830] Looking for Suggestions on Auto Tuner.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-05 01:34:30 UTC
From: Tracy Ringering
Topic: 20025 Message: 20028

Hi Jeff,
I use an SGC SG-231 and it's quick, quiet, and remembers previously tuned frequencies for even faster response. I'm running a TS-530S and Icom IC-725 on a 100 ft. loop antenna. I can go from 160m-10m as quickly as I can retune the rigs (60m is also supported, but I have no such radio). Your G5RVs would be pleased by the addition and, no, I do not own stock in SGC.

73s
Tracy N7FPI

From: latetomemphis <latetomemphis@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, February 4, 2009 5:05:23 PM
Subject: [TS-520_820_530_830] Looking for Suggestions on Auto Tuner.

Hi, I've got a Kenwood TS-820 transceiver and I'm using a couple of
G5RV antennas (10-40 & 10-80).

I'm thinking that I would like an auto antenna tuner with memories, and
am open to suggestions (or even offers for that matter).

Thanks in advance,
KB3QMT

[Non-text portions of this message have been removed]

20029. Re: [TS-520_820_530_830] Looking for Suggestions on Auto Tuner.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-05 01:42:49 UTC
From: Tracy Ringering
Topic: 20025 Message: 20029

I should follow-up by saying that to use the SGC, you'd have to cut off your coax and run parallel feedline. But if you do that, you'd probably be in good shape.
Tracy N7FPI

From: latetomemphis <latetomemphis@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, February 4, 2009 5:05:23 PM
Subject: [TS-520_820_530_830] Looking for Suggestions on Auto Tuner.

Hi, I've got a Kenwood TS-820 transceiver and I'm using a couple of
G5RV antennas (10-40 & 10-80).

I'm thinking that I would like an auto antenna tuner with memories, and
am open to suggestions (or even offers for that matter).

Thanks in advance,
KB3QMT

[Non-text portions of this message have been removed]

20030. Re: Frequency Display Jumping

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-05 03:03:05 UTC
From: n5pef@ymail.com
Topic: 20011 Message: 20030

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
Thanks for the Suggestions and comments.
>

> In addition to Gordon's suggestion I also recommend checking and, if
> necessary, adjust the two AF UNIT pots for the following voltages:
>
> 1. The voltage at TP-6 should measure 9VDC. If it does not, adjust
VR4
> on the AF UNIT so the voltage at TP-6 is 9VDC.
>
> 2. The voltage a plug 9 pin 5 should measure 3.6VDC. If it does not,
> adjust VR3 on the AF UNIT so the voltage at plug 9 pin 5 is 3.6VDC.
>
> The AF UNIT board is located on the bottom of the 830. With the
bottom
> cover removed and the 830 upside down and the front panel facing
you,
> the AF UNIT board is on the left closest to the front panel. There
are
> two plugs on the rear of the board. Plug 9 is the plug on the right.
> Pin numbers run left to right, 1, 2, 3, etc. Plug 9 will be labeled
> "RF1". The 3.6VDC voltage adjust pot, VR3, is located just forward
of
> plug 9/RF1.
>
> TP6 is located on the left front of the AF UNIT. The 9VDC voltage
> adjust pot, VR4, is the "left" pot between TP6 and the front panel.
> The pot just to the right of VR4 is VR1, the sidetone pot.
>
> The 830 should be in receive when measuring and, if necessary,
> adjusting the two pots on the AF UNIT for the corresponding correct
> voltages.
>
> 73
> Mike
> W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@> wrote:
> >
> > I would start by cleaning and checking all the Connections on the
> PLL board.
> > Just my thoughts.
> >

> > 73,
> > Gordon
> > N6WK
> >
> >
> >
> > n5pef@ wrote:
> > >
> > > I was wondering if anyone can help me on this problem.
> > > I have a TS-830S and when I first turn it on the frequency
display is
> > > working fine. About 10 to 15 minutes the display starts to jump
around
> > > a little bit. As it warms up the more inaccurate it becomes.
> > > The receive a transmit is not moving only the frequency display.
> > > Is there anyone ever had this problem and or know what I should
> look at
> > > to fix this problem.
> > > I would appreciate anyone who can help me with this.
> > > Thanks and 73s
> > > N5PEF
> > >
> > >
> > s.
> >
>

20031. Re: TS-820 - no drive

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-05 03:24:09 UTC
From: chris_yipyap_com
Topic: 12206 Message: 20031

--- In TS-520_820_530_830@yahoogroups.com, Chris Howard <chris@...> wrote:
>
>
> I have packed up this TS-820 to cogitate a little bit on the problem.
> Sometimes a rest from troubleshooting brings me some insight.
> Or, at least I have to go through again after the rest and remeasure
> things... leading to a better understanding.

Well, it's two years later. Soon after posting that in 2007 we packed
up and moved. I've got most of my radio shack put back together,
better than ever.

Now I've pulled out the TS-820 again. And true to my prediction I
don't remember much of anything.

So I'm going to go back over the old threads and see where I left off.

Chris

20032. TS-820 VCO Coil Adjustment

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-05 03:28:44 UTC
From: chris_yipyap_com
Topic: 20032 Message: 20032

I have a question about the "Adjustments" section in the TS-820 service manual.

I'm looking at section 5.2.1: "Adjustment of VCO Coil" on page 52 of the service manual.

Under "Formal adjustment" at the bottom of that page it talks about a procedure of setting the switch to "TUN", jumpering TP1<->TP2, taking a frequency reading at TP5, jumpering TP2<->TP3 and comparing frequency.

What is that doing? In my case it seems like my TP2<->TP3 readings are all greatly different than the first readings, some bands worse than others.

Chris
w0ep

20033. Re: [TS-520_820_530_830] Looking for Suggestions on Auto Tuner.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-05 04:31:45 UTC
From: ralph gee
Topic: 20025 Message: 20033

I use an LDG AT-200PRO auto tuner.. I've had this for a couple of months and it's one of the best purchases I've ever made. I also run a FT-2000D and I hate the auto tuner in the rig. The LDG has two antenna ports.
Look it up. I'm sure you will like it.
 Best 73,
Ralph
K3FXR

From: latetomemphis <latetomemphis@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, February 4, 2009 8:05:23 PM
Subject: [TS-520_820_530_830] Looking for Suggestions on Auto Tuner.

Hi, I've got a Kenwood TS-820 transceiver and I'm using a couple of
G5RV antennas (10-40 & 10-80).

I'm thinking that I would like an auto antenna tuner with memories, and
am open to suggestions (or even offers for that matter).

Thanks in advance,
KB3QMT

[Non-text portions of this message have been removed]

20034. Re: ALC dropoff TS530sp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-05 04:20:47 UTC
From: wlinn.linn
Topic: 20024 Message: 20034

--- In TS-520_820_530_830@yahoogroups.com, "rickoreair"
<rickoreair@...> wrote:
>
> Wondering if I'm on the right track in ordering a new driver tube for
> my 530. When I have the rig in the TUNE position, and try to peak the
> alc with the drive control, I get an almost full scale reading, and
> then a rapid dropoff . In addition the Ip dip is relatively broad,
> (not real sharp), and the load has a very broad "peak"-meter scale on
> rf. Am I headed in the right direction??? Thanks in advance for any
> help.
>
> Rick WB4BSP
>
Rick, yes you are on the right track. I had the same exact problem
with my 830 this week. Fortunately I had rat-holed a spare 12BY7A
which I used post haste... the problem cured.

Bill - W7WEL

20035. Re: [TS-520_820_530_830] K0ZL (SK)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-05 13:39:49 UTC
From: Dave and Loraine
Topic: 20007 Message: 20035

Hi Walt,
Thanks for letting us know.
A sad loss of a great man. He was running this site when I joined and was always kind and helpful.
R.I.P.
Dave f4eyk

20036. Re: K0ZL (SK)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-05 14:55:07 UTC
From: Ron Kienzle
Topic: 20007 Message: 20036

I, too, found Bill to have been an outstanding human being. He fixed several rigs for me and for people I had recommended him to. I'm sure he's working at a well-equipped tech bench in Heaven.

RIP

--Ron (KZ7P)

> Worker dies at MillerCoors plant in Golden
> By Kieran Nicholson
> The Denver Post
> Posted: 02/03/2009 09:34:22 AM MST
> Updated: 02/03/2009 10:08:50 AM MST
>
> A 54-year-old worker died Monday night in an apparent accident at the
> MillerCoors plant in Golden.
>
> The body of William Leahy, an electrician at the plant and a 30-year
> employee of Coors, was found by co-workers at about 9:30 p.m., said
> Aimee Valdez, a MillerCoors spokeswoman.
>
> The death, being investigated by the Jefferson County Sheriff's
> Office, does not appear to be suspicious, said Jacki Kelley, a
> sheriff's spokeswoman.
>
> "Leahy was well-regarded by his coworkers and our condolences go out
> to the Leahy family and Bill's friends during this difficult time," a
> MillerCoors company statement said.
>
> The brewer will provide support and counseling to employees who are
> impacted by Leahy's death, the statement said.
>
> Kieran Nicholson: 303-954-1822 or knicholson@...
>

20037. Re: TS 830s: Problem with VOX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-05 08:59:46 UTC
From: hb9fap
Topic: 20002 Message: 20037

Good morning Mike
MNI TNX for your very precise description on what to do! I will try
to do what you told me as soon as I can and will let you know about,
hopefully, improvements! However, yesterday evening I was checking
again my ts830s and, I noticed that the VOX works on SSB with
microphone... I noticed that there was a problem in the microphone not
working properly. So, at least the VOX works with MIC. I tried several
times with CW, but it just doesn't work. I measured the voltage at the
CW jack key in the bottom panel and it is seems to be correct with the
65 V.
I will try as soon as I can to do what you proposed me to do (I just
read this wednesday morning your email, I am at QRL).
Wishing you a nice day and greetings from snowy south Switzerland!

HB9FAP Fabio

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hi Fabio,
>
> It appears the problem in both sideband and CW is the VOX amplifier's
> VOX GAIN control may be in the VOX GAIN control. If this control is
> dirty or set too low, either intermittent or no VOX operation will
> occur whether in CW or sideband. Adjust the VOX GAIN control to see if
> this helps. I also recommend cleaning the VOX GAIN control with
> contact cleaner then rotate the control a couple of time then check
> for properly CW break-in operation and sideband VOX. If this does not
> fix the problem, check the 9VDC and 3.6VDC on the AF UNIT.
>
> To check the voltages on the AF UNIT, remove the bottom cover and turn
> the 830 upside down with the front panel facing you. The AF UNIT is
> the board on the left. There are 2 plugs on the back part of the AF
> UNIT. The plug you want is on the right and it should be labeled
> "RF1". The pin numbering is from left to right, 1, 2, 3, etc. Pin 5
> should measure 3.6VDC. If the voltage is not 3.6VDC (+/-.05VDC) then
> adjust VR3 so pin 5 on plug 9 (RF1) reads 3.6VDC. VR3 is just forward
> of plug 9. Make sure you are adjusting VR3 and not VR2. The 9VDC is
> measured at TP6, also on the AF UNIT. TP6 is located on the front part
> of the AF UNIT board. If the voltage at TP6 is not 9VDC, adjust VR4,
> forward and to the left of TP6, for a voltage reading of 9VDC at TP6.
>
> Once these two voltages are checked and, if required, adjusted to
> their respective voltages, check CW break-in and sideband VOX
> operation. You may need to re-adjust the VOX GAIN control. The voltage
> adjustments are performed with the 830 in "receive" not transmit!

>
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com, "hb9fap" <hb9fap@> wrote:
> >
> > Hi Adrian
> > Many thanks for your answer. I tried last night to do what you told
> > me, unfortunately without success.
> > Anymore suggestions?
> > Thanks de Fabio, HB9FAP
> > --- In TS-520_820_530_830@yahoogroups.com, Adrian Ellison
> > <ellisona@> wrote:
> > >
> > > Hi there,
> > >
> > > Have you tried giving the anti-vox potentiometer on the rear panel a
> > sweep
> > > from endstop to enstop a few times?
> > >
> > > Adrian / ZS1TTZ
> > >
> > > On Tuesday 03 February 2009 11:32:14 hb9fap wrote:
> > > > Hi all
> > > > I am a proud owner of a TS 830s since more than 20 years. I
> noticed in
> > > > the past days a problem, that never happened before with my TS
830s.
> > > > While transmitting on CW (with an external electronic keyer),
> the VOX
> > > > started not working properly. I mean, by using the GAIN and
> DELAY all
> > > > was OK, then it started to not switch anymore on Transmission. I
> > > > noticed that by increasing the GAIN it was for a while
working, but
> > > > after a few times, there was simply no more switch by touching the
> > > > paddles of the CW-Keyer. So at the moment the only way to
> transmit on
> > > > CW is to switch the REC-SEND button to SEND before starting
> > > > transmitting on CW. This is of course not very confortable.
> > > > I even noticed that the VOX does not work with the Microphone
(even
> > > > when on CW the VOX was still working, it was already not working
> with
> > > > the Microphone).
> > > > Is there anybody who can have a suggestion, where the problem
could
> > > > be, and how to fix it?

> > > > Please apologize for my english, I hope it is good enough to
let you
> > > > understand what my problem is...
> > > >
> > > > MANY thanks in adavance for any possible help!
> > > >
> > > > 73s from Switzerland, HB9FAP
> > >
> >
>

20038. Re: [TS-520_820_530_830] Re: TS 830s: Problem with VOX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-05 15:16:17 UTC
From: Adrian Ellison
Topic: 20002 Message: 20038

Hello again Fabio,

Are you getting a sidetone on CW?

Adrian / ZS1TTZ

On Thursday 05 February 2009 10:59:46 hb9fap wrote:
> Good morning Mike
> MNI TNX for your very precise description on what to do! I will try
> to do what you told me as soon as I can and will let you know about,
> hopefully, improvements! However, yesterday evening I was checking
> again my ts830s and, I noticed that the VOX works on SSB with
> microphone... I noticed that there was a problem in the microphone not
> working properly. So, at least the VOX works with MIC. I tried several
> times with CW, but it just doesn't work. I measured the voltage at the
> CW jack key in the bottom panel and it is seems to be correct with the
> 65 V.
> I will try as soon as I can to do what you proposed me to do (I just
> read this wednesday morning your email, I am at QRL).
> Wishing you a nice day and greetings from snowy south Switzerland!
>
> HB9FAP Fabio
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
> > Hi Fabio,
> >
> > It appears the problem in both sideband and CW is the VOX amplifier's
> > VOX GAIN control may be in the VOX GAIN control. If this control is
> > dirty or set too low, either intermittent or no VOX operation will
> > occur whether in CW or sideband. Adjust the VOX GAIN control to see if
> > this helps. I also recommend cleaning the VOX GAIN control with
> > contact cleaner then rotate the control a couple of time then check
> > for properly CW break-in operation and sideband VOX. If this does not
> > fix the problem, check the 9VDC and 3.6VDC on the AF UNIT.
> >
> > To check the voltages on the AF UNIT, remove the bottom cover and turn
> > the 830 upside down with the front panel facing you. The AF UNIT is
> > the board on the left. There are 2 plugs on the back part of the AF
> > UNIT. The plug you want is on the right and it should be labeled
> > "RF1". The pin numbering is from left to right, 1, 2, 3, etc. Pin 5
> > should measure 3.6VDC. If the voltage is not 3.6VDC (+/-.05VDC) then
> > adjust VR3 so pin 5 on plug 9 (RF1) reads 3.6VDC. VR3 is just forward
> > of plug 9. Make sure you are adjusting VR3 and not VR2. The 9VDC is
> > measured at TP6, also on the AF UNIT. TP6 is located on the front part
> > of the AF UNIT board. If the voltage at TP6 is not 9VDC, adjust VR4,
> > forward and to the left of TP6, for a voltage reading of 9VDC at TP6.

> >
> > Once these two voltages are checked and, if required, adjusted to
> > their respective voltages, check CW break-in and sideband VOX
> > operation. You may need to re-adjust the VOX GAIN control. The voltage
> > adjustments are performed with the 830 in "receive" not transmit!
> >
> >
> > 73
> > Mike
> > W5RKL
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "hb9fap" <hb9fap@> wrote:
> > > Hi Adrian
> > > Many thanks for your answer. I tried last night to do what you told
> > > me, unfortunately without success.
> > > Anymore suggestions?
> > > Thanks de Fabio, HB9FAP
> > > --- In TS-520_820_530_830@yahoogroups.com, Adrian Ellison
> > >
> > > <ellisona@> wrote:
> > > > Hi there,
> > > >
> > > > Have you tried giving the anti-vox potentiometer on the rear panel a
> > >
> > > sweep
> > >
> > > > from endstop to enstop a few times?
> > > >
> > > > Adrian / ZS1TTZ
> > > >
> > > > On Tuesday 03 February 2009 11:32:14 hb9fap wrote:
> > > > > Hi all
> > > > > I am a proud owner of a TS 830s since more than 20 years. I
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> > noticed in
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> > > > > the past days a problem, that never happened before with my TS
>
> 830s.
>
> > > > > While transmitting on CW (with an external electronic keyer),
> >
> > the VOX
> >
> > > > > started not working properly. I mean, by using the GAIN and
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> > DELAY all
> >
> > > > > was OK, then it started to not switch anymore on Transmission. I
> > > > > noticed that by increasing the GAIN it was for a while

>
> working, but
>
> > > > > after a few times, there was simply no more switch by touching the
> > > > > paddles of the CW-Keyer. So at the moment the only way to
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> > transmit on
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> > > > > > CW is to switch the REC-SEND button to SEND before starting
> > > > > > transmitting on CW. This is of course not very confortable.
> > > > > > I even noticed that the VOX does not work with the Microphone
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>
> > > > > > when on CW the VOX was still working, it was already not working
> >
> > with
> >
> > > > > > the Microphone).
> > > > > > Is there anybody who can have a suggestion, where the problem
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> could
>
> > > > > > be, and how to fix it?
> > > > > > Please apologize for my english, I hope it is good enough to
>
> let you
>
> > > > > > understand what my problem is...
> > > > > >
> > > > > > MANY thanks in adavance for any possible help!
> > > > > >
> > > > > > 73s from Switzerland, HB9FAP

20039. wanted - VF 230 for TS 830 s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-05 15:43:21 UTC
From: TIM RIERDEN
Topic: 20039 Message: 20039

I'm looking for a VFO 230 for my 830s. If you have one available please
let me know. I can pay via PayPal

73, W7TSR, Tim

20040. Re: K0ZL (SK)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-05 15:50:11 UTC
From: clintws1v
Topic: 20007 Message: 20040

Bill will surely be missed, he was a true ham, always looking to help
& mentor others. He helped me many times, and sent me parts.

Condolences to his family
Rest in peace Bill,

Clint
WS1V ...

--- In TS-520_820_530_830@yahoogroups.com, "Ron Kienzle" <ron@...> wrote:
>
> I, too, found Bill to have been an outstanding human being. He fixed
> several rigs for me and for people I had recommended him to. I'm sure
> he's working at a well-equipped tech bench in Heaven.
>
> RIP
>
> --Ron (KZ7P)
>
>
> >
> > Worker dies at MillerCoors plant in Golden
> > By Kieran Nicholson
> > The Denver Post
> > Posted: 02/03/2009 09:34:22 AM MST
> > Updated: 02/03/2009 10:08:50 AM MST
> >
> > A 54-year-old worker died Monday night in an apparent accident at
> the
> > MillerCoors plant in Golden.
> >
> > The body of William Leahy, an electrician at the plant and a 30-year
> > employee of Coors, was found by co-workers at about 9:30 p.m., said
> > Aimee Valdez, a MillerCoors spokeswoman.
> >
> > The death, being investigated by the Jefferson County Sheriff's
> > Office, does not appear to be suspicious, said Jacki Kelley, a
> > sheriff's spokeswoman.
> >
> > "Leahy was well-regarded by his coworkers and our condolences go out
> > to the Leahy family and Bill's friends during this difficult time,"
> a
> > MillerCoors company statement said.
> >
> > The brewer will provide support and counseling to employees who are
> > impacted by Leahy's death, the statement said.

> >
> > Kieran Nicholson: 303-954-1822 or knicholson@
> >
>

20041. Re: TS 830s: Problem with VOX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-05 21:16:09 UTC
From: w5rkl
Topic: 20002 Message: 20041

Since the VOX works fine in sideband but not in CW then check the
voltage at TP2 on the AF Unit. In receive the voltage at TP2 should be
zero. With the CW key closed in CW mode the voltage at TP2 should be
.5VDC. If the voltage at TP2 remains at zero with the 830 in CW mode
and the CW key closed, then I suspect diode D9 is bad, most likely open.

TP2 is located in the middle of the AF unit board. It should be easy
to find.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "hb9fap" <hb9fap@...> wrote:
>
> Good morning Mike
> MNI TNX for your very precise description on what to do! I will try
> to do what you told me as soon as I can and will let you know about,
> hopefully, improvements! However, yesterday evening I was checking
> again my ts830s and, I noticed that the VOX works on SSB with
> microphone... I noticed that there was a problem in the microphone not
> working properly. So, at least the VOX works with MIC. I tried several
> times with CW, but it just doesn't work. I measured the voltage at the
> CW jack key in the bottom panel and it is seems to be correct with the
> 65 V.
> I will try as soon as I can to do what you proposed me to do (I just
> read this wednesday morning your email, I am at QRL).
> Wishing you a nice day and greetings from snowy south Switzerland!
>
> HB9FAP Fabio
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Hi Fabio,
> >
> > It appears the problem in both sideband and CW is the VOX amplifier's
> > VOX GAIN control may be in the VOX GAIN control. If this control is
> > dirty or set too low, either intermittent or no VOX operation will
> > occur whether in CW or sideband. Adjust the VOX GAIN control to see if
> > this helps. I also recommend cleaning the VOX GAIN control with
> > contact cleaner then rotate the control a couple of time then check
> > for properly CW break-in operation and sideband VOX. If this does not
> > fix the problem, check the 9VDC and 3.6VDC on the AF UNIT.
> >
> > To check the voltages on the AF UNIT, remove the bottom cover and turn
> > the 830 upside down with the front panel facing you. The AF UNIT is

> > the board on the left. There are 2 plugs on the back part of the AF
> > UNIT. The plug you want is on the right and it should be labeled
> > "RF1". The pin numbering is from left to right, 1, 2, 3, etc. Pin 5
> > should measure 3.6VDC. If the voltage is not 3.6VDC (+/-.05VDC) then
> > adjust VR3 so pin 5 on plug 9 (RF1) reads 3.6VDC. VR3 is just forward
> > of plug 9. Make sure you are adjusting VR3 and not VR2. The 9VDC is
> > measured at TP6, also on the AF UNIT. TP6 is located on the front part
> > of the AF UNIT board. If the voltage at TP6 is not 9VDC, adjust VR4,
> > forward and to the left of TP6, for a voltage reading of 9VDC at TP6.
> >
> > Once these two voltages are checked and, if required, adjusted to
> > their respective voltages, check CW break-in and sideband VOX
> > operation. You may need to re-adjust the VOX GAIN control. The voltage
> > adjustments are performed with the 830 in "receive" not transmit!
> >
> >
> > 73
> > Mike
> > W5RKL
> >
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> > > me, unfortunately without success.
> > > Anymore suggestions?
> > > Thanks de Fabio, HB9FAP
> > > --- In TS-520_820_530_830@yahoogroups.com, Adrian Ellison
> > > <ellisona@> wrote:
> > > >
> > > > Hi there,
> > > >
> > > > Have you tried giving the anti-vox potentiometer on the rear
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> > > sweep
> > > > from endstop to enstop a few times?
> > > >
> > > > Adrian / ZS1TTZ
> > > >
> > > > On Tuesday 03 February 2009 11:32:14 hb9fap wrote:
> > > > > Hi all
> > > > > I am a proud owner of a TS 830s since more than 20 years. I
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> > > > > While transmitting on CW (with an external electronic keyer),
> > the VOX
> > > > > started not working properly. I mean, by using the GAIN and
> > DELAY all
> > > > > was OK, then it started to not switch anymore on Transmission. I

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> > > > > > after a few times, there was simply no more switch by
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> > transmit on
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> > > > > > MANY thanks in adavance for any possible help!
> > > > > >
> > > > > > 73s from Switzerland, HB9FAP
> > > > >
> > > >
> > >
> >

20042. Re: TS 830s: Problem with VOX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-05 22:13:27 UTC
From: w5rkl
Topic: 20002 Message: 20042

I know how the snow can get in Europe, I lived in a small village near Stuttgart called "Leonberg", 12km from Stuttgart, for 5 years (Feb 1999 to June 2004). We did not get the same amount of snow Switzerland does but we did get quite a bit. I was "DA1TNJ" during my time in Germany. Loved it there but my job ended so I had to return to the states.

Ich spreche kein Deutsch sehr gut. Ich liebe die deutsche Sprache, aber es war schwierig für mich zu lernen. Meine Frau spricht fließend Deutsch, so dass einiges dazu beigetragen.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Since the VOX works fine in sideband but not in CW then check the
> voltage at TP2 on the AF Unit. In receive the voltage at TP2 should be
> zero. With the CW key closed in CW mode the voltage at TP2 should be
> .5VDC. If the voltage at TP2 remains at zero with the 830 in CW mode
> and the CW key closed, then I suspect diode D9 is bad, most likely open.
>
> TP2 is located in the middle of the AF unit board. It should be easy
> to find.
>
> 73
> Mike
> W5RKL
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "hb9fap" <hb9fap@> wrote:
> >
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> > MNI TNX for your very precise description on what to do! I will try
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> > again my ts830s and, I noticed that the VOX works on SSB with
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> > > contact cleaner then rotate the control a couple of time then check
> > > for properly CW break-in operation and sideband VOX. If this
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> > > > --- In TS-520_820_530_830@yahoogroups.com, Adrian Ellison
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> > > > > On Tuesday 03 February 2009 11:32:14 hb9fap wrote:
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> > > > > > MANY thanks in adavance for any possible help!
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> > > > > > > 73s from Switzerland, HB9FAP
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> > > > >
> > > >
> > >
>

20043. Re: TS820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-06 01:02:38 UTC
From: bragucci
Topic: 9983 Message: 20043

Ok, cleaned the switchs using Deoxit. I checked the amplifier's
idling current, it's right on 60ma. What about the mic? I don't have
a spare one to test with, is there a quick test I can do to rule it
out? Touching 2 of the mic connector prongs on the mic connector,
something like that? Anything that would rule the mic out? I guess
I'm thinking like a troubleshooter now, got to have voice "in" to get
"rf" out :)
I appreciate your help in getting to the bottom of this.

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello Bart,
>
> If you have 100 watts output on CW then the driver tube is not the
> problem.
>
> You might try cleaning the MIC gain control with contact cleaner then
> rotate the MIC gain throughout it's travel a few times then check the
> output on sideband again.
>
> You also might check the final amplifier's idling current, it should
> be 60ma. With the meter switch set to "IP", press the PTT button on
> the microphone the meter should read 60ma. If it's not then with the
> PTT button pressed, adjust the rear panel bias pot so the meter reads
> 60ma. This procedure is outlined in the 820's operator's manual.
>
> 73
> Mike
> W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "bragucci" <bragucci@>
> wrote:
> >
> > I;m sorry, but when I say 100w, that reading is from my antenna tuner
> > meter. All my controls are set as usual, MIC gain, etc. When I try
> > to transmit on LSB or USB the antenna tuner meter shows about 15w, in
> > CW it shows 100w. My SSB is always around 100w out put, suddenly only
> > 15w. I didn't explain too well the first time, sorry. I have had the
> > radio over 1 year and have always had 100w or more output on SSB. The
> > radio wasn't used for a few days and when I turned it on and tuned up
> > I only had 15w out as shown on the antenna tuner meter.
> > So, something has made my output on SSB drop by about 85w, again CW is
> > a good 100w out put. Could it be the driver tube? Are there any
> > measurement tests I can make using the meter on the radio that may

> > show what happened to reduce the power?
> > Help is appreciated!
> > Thx
> > Bart
> > KD8GTP
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > >
> > >
> > > What position is the MIC gain setting (8, 9, 10 o'clock)?
> > >
> > > I use a Shure 444 with the MIC gain set between 9 and 10
o'clock. This
> > > results in a low ALC meter indication and about 20 watts output
on my
> > > "average" Drake MN-2000 and Heathkit HM-102 watt meter. A low ALC
> > > reading is what you should strive for, not a high ALC reading.
> > >
> > > If you are using the 820's RF meter setting, understand that the RF
> > > meter in the 820 is nothing more than a "relative" RF output
meter. It
> > > is not a watt meter. It's showing a low reading then clean the
RF pot
> > > on the rear panel and adjust the rear panel pot for 3/4 scale
reading
> > > at 100 watt output on CW. Make sure you are adjusting the RF
meter pot
> > > and not the bias pot.
> > >
> > > Don't turn up the MIC gain to get a higher output on the watt meter.
> > > You will only cause adjacent interference, splatter. If you are
> > > receiving good audio reports and normal signal level reports then
> > > there's nothing wrong with your 820.
> > >
> > > 73
> > > Mike
> > > W5RKL
> > >
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "bragucci" <bragucci@>
> > > wrote:
> > > >
> > > > same on USB, just 10-15w output, yet cw is a full 100w. I
> cleaned all
> > > > switches, same problem
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> > > > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
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> > > > > Bart,
> > > > >
> > > > > How is the output on USB, is it the same?
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> > > > > I recommend cleaning the mode switch with contact cleaner.
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> > > > > 73
> > > > > Mike
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> > > > > --- In TS-520_820_530_830@yahoogroups.com, "bragucci"
<bragucci@>
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> > > > > > My TS820 was functioning fine two days ago. Today I turned
> it on,
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> watts on
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> > > again
> > > > > > and was able to get 10-15w out, again CW was 100w out. I went
> > over
> > > > > > the mic/connector and all connections are good. Any ideas!
> > > > > > Thx
> > > > > > Bart
> > > > > > KD8GTP
> > > > > >
> > > > >
> > > > >
> > > >
> > >
> >

20044. Re: [TS-520_820_530_830] Re: TS820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-06 01:11:36 UTC
From: Don Thomas
Topic: 9983 Message: 20044

Touching the mic audio input should give you some output. Radio would have to be keyed when touching the audio in. Not sure what level, but would think that should work. Mike probably has better idea as I'm not familiar with the 820.

Don T.

--- On Thu, 2/5/09, bragucci <bragucci@....com> wrote:

From: bragucci <bragucci@...>
Subject: [TS-520_820_530_830] Re: TS820
To: TS-520_820_530_830@yahoogroups.com
Date: Thursday, February 5, 2009, 7:02 PM

Ok, cleaned the switchs using Deoxit. I checked the amplifier's
idling current, it's right on 60ma. What about the mic? I don't have
a spare one to test with, is there a quick test I can do to rule it
out? Touching 2 of the mic connector prongs on the mic connector,
something like that? Anything that would rule the mic out? I guess
I'm thinking like a troubleshooter now, got to have voice "in" to get
"rf" out :)
I appreciate your help in getting to the bottom of this.

--- In TS-520_820_530_ 830@yahoogroups. com, "w5rkl" <w5rkl@...> wrote:
>
> Hello Bart,
>
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> problem.
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> output on sideband again.
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> You also might check the final amplifier's idling current, it should
> be 60ma. With the meter switch set to "IP", press the PTT button on
> the microphone the meter should read 60ma. If it's not then with the
> PTT button pressed, adjust the rear panel bias pot so the meter reads
> 60ma. This procedure is outlined in the 820's operator's manual.
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> Mike
> W5RKL
>
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> > CW it shows 100w. My SSB is always around 100w out put, suddenly only
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> > radio wasn't used for a few days and when I turned it on and tuned up
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> > > >
> > >
> >
>

[Non-text portions of this message have been removed]

20045. Re: TS820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-06 01:16:48 UTC
From: w5rkl
Topic: 9983 Message: 20045

Bart,

Yes, you can do the finger on the mic pins test in USB or LSB to see
if output occurs. The 820 should be tuned up properly for maximum
output then switch to USB or LSB, meter in RF, and flip the SEND
switch up. Press your thumb firmly against the mic socket pins with
the MIC gain set at 11 o'clock. You should see a "slight" rise in the
RF meter if everything is working properly. Do not look for a change
(rise) in IP current or an ALC meter indication because you won't see any.

I have done this before with my 820 and the RF output is very low but
you should be able to see it on the 820's RF meter. If the RF output
meter does not show a rise, either the RF meter pot on the rear of the
820 is set too low OR there is a problem in your 820.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "bragucci" <bragucci@...>
wrote:
>
> Ok, cleaned the switchs using Deoxit. I checked the amplifier's
> idling current, it's right on 60ma. What about the mic? I don't have
> a spare one to test with, is there a quick test I can do to rule it
> out? Touching 2 of the mic connector prongs on the mic connector,
> something like that? Anything that would rule the mic out? I guess
> I'm thinking like a troubleshooter now, got to have voice "in" to get
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> I appreciate your help in getting to the bottom of this.
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> > --- In TS-520_820_530_830@yahoogroups.com, "bragucci" <bragucci@>
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20046. Re: [TS-520_820_530_830] Re: TS820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-06 01:16:17 UTC
From: Walter A. Breining
Topic: 9983 Message: 20046

Please note that with 100 w out on CW you will only get 15 to 35 watts on a analog (needle) type meter while operating with voice on SSB. You will still be peaking the same as on CW but the meter needle will not be able to keep up with it. That is why there is such a thing as a peak reading meter. However I prefere to use a scope.

You could try to touch mike pin 1 with a screwdriver with your finger on it to inject garbage into the mike input as a crude test signal. do this with the processor off and the mike gain fully up. Then note the watt meter reading. Also not the IP reading while doing this. A very steady pure tone of between 400 to 1500 Hz will work better. Do not do this for more than a few seconds as it pushes the tubes just like in CW.

What mike are you using> If it is dual impedance such as the MC-50, might it have accidentally been changed to low impedance? It should be on high impedance.

Could the change be that you processor has accidentally been turned on or off when the problem developed or could the processor be turned down? If you go AHHH into the mike, what does the ALC meter read ?

Vy 73, Walt N9WB

----- Original Message -----
From: bragucci
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, February 05, 2009 8:02 PM
Subject: [TS-520_820_530_830] Re: TS820

Messages in this topic (12) Reply (via web post) | Start a new topic
Messages | Files | Photos | Database | Members
MARKETPLACE

From kitchen basics to easy recipes - join the Group from Kraft Foods

Change settings via the Web (Yahoo! ID required)
Change settings via e
Ok, cleaned the switchs using Deoxit. I checked the amplifier's idling current, it's right on 60ma. What about the mic? I don't have a spare one to test with, is there a quick test I can do to rule it out? Touching 2 of the mic connector prongs on the mic connector, something like that? Anything that would rule the mic out? I guess I'm thinking like a troubleshooter now, got to have voice "in" to get "rf" out :)
I appreciate your help in getting to the bottom of this.

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> PTT button pressed, adjust the rear panel bias pot so the meter reads
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20047. Re: TS820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-06 02:16:03 UTC
From: bragucci
Topic: 9983 Message: 20047

Thanks to everyone for their help! I found if I shut off the speech processor my SSB goes back to the normal 100w output, turn it back on and the output drops significantly. So, my guess is give the switch a shot of deoxit? Would I have better luck opening the radio from the bottom cover to access this? And if after cleaning I still have the problem what else can I check with the switch?
Thx
Bart

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> the MIC gain set at 11 o'clock. You should see a "slight" rise in the
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20048. Re: TS820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-06 02:41:33 UTC
From: Gordon
Topic: 9983 Message: 20048

Yes bart,
A dirty Processor switch is a common problem on some of these old
Radios. A good shot of De-Oxit then work the switch in and out a few
times, should make it good as new for a long time.
Let us know how it works out.
73,
Gordon
N6WK

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> > > > > > switches, same problem
> > > > > >
> > > > > > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@>
> > wrote:
> > > > > > > > >
> > > > > > > > > Bart,
> > > > > > > > >
> > > > > > > > > How is the output on USB, is it the same?
> > > > > > > > >
> > > > > > > > > I recommend cleaning the mode switch with contact cleaner.
> > > > > > > > >
> > > > > > > > > 73
> > > > > > > > > Mike
> > > > > > > > > W5RKL
> > > > > > > > >
> > > > > > > > >
> > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "bragucci"
> > > <bragucci@>
> > > > > > > > > wrote:
> > > > > > > > >
> > > > > > > > > My TS820 was functioning fine two days ago. Today I
> turned
> > > > > it on,
> > > > > > > > > tuned up on 40m and tried to transmit, only put out
a few

> > > > watts on
> > > > > > > > > > LSB. I tried CW and got my normal 100w out. I tried to
> > > tune up
> > > > > > again
> > > > > > > > > > and was able to get 10-15w out, again CW was 100w out.
> > I went
> > > > > over
> > > > > > > > > > the mic/connector and all connections are good. Any
> ideas!
> > > > > > > > > > Thx
> > > > > > > > > > Bart
> > > > > > > > > > KD8GTP
> > > > > > > > > >
> > > > > > > > >
> > > > > > > >
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> > > >
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>

20049. TX Freq Drift on TS520SE during PSK31 operation

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-06 18:34:15 UTC
From: robin_joe2000
Topic: 20049 Message: 20049

Hi all, I just started using my old TS520SE for digital mode operation. RTTY seems to work fine - but I'm seeing signs of drift with PSK31 mode. Presumably this is due to drift in the VFO reference circuit. It seems worse on 20M than 40M which supports this theory. After calling CQ (perhaps 15 sec of transmission time) I can watch receive signals drift on the order of 15-30Hz at 15M, which is enough to play havoc with PSK31 signals. I DON'T think this is happening due to my computer soundcard! This happens after significant warm up time (hours). My shack is in a cool portion of my basement, it is between 55 and 60F. The apparent drift happens over the seconds timeframe - my waterfall display squiggles left and right noticably over the first 5-10 seconds after transmission.

Every time I call CQ, the replying station seems to be off my channel, meaning I can't hear replys. In fact, I was trying to reply to a CQ last night, was unsuccessful, then heard the resultant conversation where they were talking about the ham who was drifting all over the place. Embarrassing!

Do any of you successfully run PSK31 on this rig? Any success on 20M, or am I limited to lower frequencies, or just limited to RTTY? Any suggestions or recommendation are welcome.

20050. Re: TX Freq Drift on TS520SE during PSK31 operation

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-06 19:11:28 UTC
From: Wim Penders
Topic: 20049 Message: 20050

Joe,
I don't think the transceivers of that age, be it Kenwood or Yaesu are usable for PSK. I can be wrong in this, but the culprit is the analog VFO, that always wanders around, even after a warmup period.
Better get yourself a set with full digital frequency generation.
I myself use a IC756, that is stable within 2 hz over a day period, even without high-stability unit.
I like the older sets too, but they were not designed for this kind of stability. They were outstanding for RTTY the oldfashioned way with a Teletype 15, I used that in the mid-eighties myself.

73 Wim PA0PGA

--- In TS-520_820_530_830@yahoogroups.com, "robin_joe2000" <n9ok@...> wrote:
>
> Hi all, I just started using my old TS520SE for digital mode
> operation. RTTY seems to work fine - but I'm seeing signs of drift
> with PSK31 mode. Presumably this is due to drift in the VFO reference
> circuit. It seems worse on 20M than 40M which supports this theory.
> After calling CQ (perhaps 15 sec of transmission time) I can watch
> receive signals drift on the order of 15-30Hz at 15M, which is enough
> to play havoc with PSK31 signals. I DON'T think this is happening due
> to my computer soundcard! This happens after significant warm up time
> (hours). My shack is in a cool portion of my basement, it is between
> 55 and 60F. The apparent drift happens over the seconds timeframe - my
> waterfall display squiggles left and right noticably over the first
> 5-10 seconds after transmission.
>
> Every time I call CQ, the replying station seems to be off my channel,
> meaning I can't hear replys. In fact, I was trying to reply to a CQ
> last night, was unsuccessful, then heard the resultant conversation
> where they were talking about the ham who was drifting all over the
> place. Embarrassing!
>
> Do any of you successfully run PSK31 on this rig? Any success on 20M,
> or am I limited to lower frequencies, or just limited to RTTY? Any
> suggestions or recommendation are welcome.
>

20051. Re: [TS-520_820_530_830] TX Freq Drift on TS520SE during PSK31 operation

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-06 20:47:15 UTC
From: martin
Topic: 20049 Message: 20051

Hi. I have used PSK31 and made a fair number of QSOs with my TS-530S.
I know its not the same radio, but the specs on stability are the
same. I seem to remember others using the TS-520 series radios on PSK
successfully. It may be possible that your radio is not reaching a
stable operating temp, or maybe a component in the VFO circuit causing
the instability that you are seeing.

You can measure the amount of drift that you have in the following manner:

Tune the radio to WWV, and start your PSK software. Tune the VFO so
that byou see the WWV carrier on the waterfall display. Click on the
center of the carrier., and write down the time and the audio
frequency shown in the program. Check again at 15 minute intervals,
and write down the time and audio frequency. After about 20 minutes
or so, the drift should be minimal(50Hz or less in any 15 minute
period after warm-up)

Since WWV is a frequency standard, what you are seeing is the VFO
drift (and and drift in the sound card)

TTYL

robin_joe2000 wrote:
> Hi all, I just started using my old TS520SE for digital mode
> operation. RTTY seems to work fine - but I'm seeing signs of drift
> with PSK31 mode. Presumably this is due to drift in the VFO reference
> circuit. It seems worse on 20M than 40M which supports this theory.
> After calling CQ (perhaps 15 sec of transmission time) I can watch
> receive signals drift on the order of 15-30Hz at 15M, which is enough
> to play havoc with PSK31 signals. I DON'T think this is happening due
> to my computer soundcard! This happens after significant warm up time
> (hours). My shack is in a cool portion of my basement, it is between
> 55 and 60F. The apparent drift happens over the seconds timeframe - my
> waterfall display squiggles left and right noticably over the first
> 5-10 seconds after transmission.
>
> Every time I call CQ, the replying station seems to be off my channel,
> meaning I can't hear replys. In fact, I was trying to reply to a CQ
> last night, was unsuccessful, then heard the resultant conversation
> where they were talking about the ham who was drifting all over the
> place. Embarrassing!
>
> Do any of you successfully run PSK31 on this rig? Any success on 20M,
> or am I limited to lower frequencies, or just limited to RTTY? Any
> suggestions or recommendation are welcome.

>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

20052. Re: [TS-520_820_530_830] Re: TX Freq Drift on TS520SE during PSK31 operation

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-06 20:51:57 UTC
From: John A
Topic: 20049 Message: 20052

But if you had favorite freqs that you used for digital modes,
couldn't you use fixed crystals? No drift that way.

John

On Feb 6, 2009, at 2:11 PM, Wim Penders wrote:

> Joe,
> I don't think the transceivers of that age, be it Kenwood or Yaesu are
> usable for PSK. I can be wrong in this, but the culprit is the analog
> VFO, that always wanders around, even after a warmup period.
> Better get yourself a set with full digital frequency generation.
> I myself use a IC756, that is stable within 2 hz over a day period,
> even without high-stability unit.
> I like the older sets too, but they were not designed for this kind of
> stability. They were outstanding for RTTY the oldfashioned way with a
> Teletype 15, I used that in the mid-eighties myself.
>
> 73 Wim PA0PGA
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "robin_joe2000" <n9ok@...>
> wrote:
>>
>> Hi all, I just started using my old TS520SE for digital mode
>> operation. RTTY seems to work fine - but I'm seeing signs of drift
>> with PSK31 mode. Presumably this is due to drift in the VFO reference
>> circuit. It seems worse on 20M than 40M which supports this theory.
>> After calling CQ (perhaps 15 sec of transmission time) I can watch
>> receive signals drift on the order of 15-30Hz at 15M, which is
>> enough
>> to play havoc with PSK31 signals. I DON'T think this is happening due
>> to my computer soundcard! This happens after significant warm up time
>> (hours). My shack is in a cool portion of my basement, it is between
>> 55 and 60F. The apparent drift happens over the seconds timeframe
>> - my
>> waterfall display squiggles left and right noticably over the first
>> 5-10 seconds after transmission.
>>
>> Every time I call CQ, the replying station seems to be off my
>> channel,
>> meaning I can't hear replys. In fact, I was trying to reply to a CQ
>> last night, was unsuccessful, then heard the resultant conversation

>> where they were talking about the ham who was drifting all over the
>> place. Embarrassing!
>>
>> Do any of you successfully run PSK31 on this rig? Any success on 20M,
>> or am I limited to lower frequencies, or just limited to RTTY? Any
>> suggestions or recommendation are welcome.
>>
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> Yahoo! Groups Links
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20053. Re: TX Freq Drift on TS520SE during PSK31 operation

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-06 21:33:00 UTC
From: w5rkl
Topic: 20049 Message: 20053

Most likely the drift in the 520SE is caused by the 9VDC supply. The VFO is powered by the 9VDC and if it's unstable the VFO will be unstable which leads to drift in the 520SE in both transmit and receive.

Measure the voltage on the FIX CH AVR Unit's "9" connection, it should be 9VDC. If it's not, adjust VR1 on the FIX CH AVR Unit for 9VDC on connection "9". Monitor the voltage and I suspect it will drift "upward" in voltage.

It is quite possible that zener diode D3 on the FIX CH AVR Unit is failing which is affecting the stability of the 9VDC supply. A replacement for D3 is a 1N5234B available from Mouser Electronics for 5 cents.

I also highly recommend replacing all of the power supply filter capacitors. The 520SE is 30 years old or older and the filter capacitors should be replaced. If you plan on keeping your 520SE this would be a good investment.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Wim Penders" <wpenders@...> wrote:
>
> Joe,
> I don't think the transceivers of that age, be it Kenwood or Yaesu are
> usable for PSK. I can be wrong in this, but the culprit is the analog
> VFO, that always wanders around, even after a warmup period.
> Better get yourself a set with full digital frequency generation.
> I myself use a IC756, that is stable within 2 hz over a day period,
> even without high-stability unit.
> I like the older sets too, but they were not designed for this kind of
> stability. They were outstanding for RTTY the oldfashioned way with a
> Teletype 15, I used that in the mid-eighties myself.
>
> 73 Wim PA0PGA
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "robin_joe2000" <n9ok@>
> wrote:
> >
> > Hi all, I just started using my old TS520SE for digital mode
> > operation. RTTY seems to work fine - but I'm seeing signs of drift

> > with PSK31 mode. Presumably this is due to drift in the VFO reference
> > circuit. It seems worse on 20M than 40M which supports this theory.
> > After calling CQ (perhaps 15 sec of transmission time) I can watch
> > receive signals drift on the order of 15-30Hz at 15M, which is enough
> > to play havoc with PSK31 signals. I DON'T think this is happening due
> > to my computer soundcard! This happens after significant warm up time
> > (hours). My shack is in a cool portion of my basement, it is between
> > 55 and 60F. The apparent drift happens over the seconds timeframe - my
> > waterfall display squiggles left and right noticably over the first
> > 5-10 seconds after transmission.
> >
> > Every time I call CQ, the replying station seems to be off my channel,
> > meaning I can't hear replys. In fact, I was trying to reply to a CQ
> > last night, was unsuccessful, then heard the resultant conversation
> > where they were talking about the ham who was drifting all over the
> > place. Embarrassing!
> >
> > Do any of you successfully run PSK31 on this rig? Any success on 20M,
> > or am I limited to lower frequencies, or just limited to RTTY? Any
> > suggestions or recommendation are welcome.
> >
>

20054. Re: TX Freq Drift on TS520SE during PSK31 operation

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-06 21:35:10 UTC
From: w5rkl
Topic: 20049 Message: 20054

Yes, that is true but, unfortunately, that would not correct the drift
issue.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, John A <john@...> wrote:
>
> But if you had favorite freqs that you used for digital modes,
> couldn't you use fixed crystals? No drift that way.
>
> John
>
> On Feb 6, 2009, at 2:11 PM, Wim Penders wrote:
>
> > Joe,
> > I don't think the transceivers of that age, be it Kenwood or Yaesu are
> > usable for PSK. I can be wrong in this, but the culprit is the analog
> > VFO, that always wanders around, even after a warmup period.
> > Better get yourself a set with full digital frequency generation.
> > I myself use a IC756, that is stable within 2 hz over a day period,
> > even without high-stability unit.
> > I like the older sets too, but they were not designed for this kind of
> > stability. They were outstanding for RTTY the oldfashioned way with a
> > Teletype 15, I used that in the mid-eighties myself.
> >
> > 73 Wim PA0PGA
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "robin_joe2000" <n9ok@>
> > wrote:
> >>
> >> Hi all, I just started using my old TS520SE for digital mode
> >> operation. RTTY seems to work fine - but I'm seeing signs of drift
> >> with PSK31 mode. Presumably this is due to drift in the VFO reference
> >> circuit. It seems worse on 20M than 40M which supports this theory.
> >> After calling CQ (perhaps 15 sec of transmission time) I can watch
> >> receive signals drift on the order of 15-30Hz at 15M, which is
> >> enough
> >> to play havoc with PSK31 signals. I DON'T think this is happening due
> >> to my computer soundcard! This happens after significant warm up time
> >> (hours). My shack is in a cool portion of my basement, it is between
> >> 55 and 60F. The apparent drift happens over the seconds timeframe

> >> - my
> >> waterfall display squiggles left and right noticably over the first
> >> 5-10 seconds after transmission.
> >>
> >> Every time I call CQ, the replying station seems to be off my
> >> channel,
> >> meaning I can't hear replys. In fact, I was trying to reply to a CQ
> >> last night, was unsuccessful, then heard the resultant conversation
> >> where they were talking about the ham who was drifting all over the
> >> place. Embarrassing!
> >>
> >> Do any of you successfully run PSK31 on this rig? Any success on 20M,
> >> or am I limited to lower frequencies, or just limited to RTTY? Any
> >> suggestions or recommendation are welcome.
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> > Yahoo! Groups Links
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20055. Re: [TS-520_820_530_830] TX Freq Drift on TS520SE during PSK31 operation

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-06 21:38:40 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20049 Message: 20055

On Fri, 2009-02-06 at 18:34 +0000, robin_joe2000 wrote:

> Do any of you successfully run PSK31 on this rig? Any success on 20M,
> or am I limited to lower frequencies, or just limited to RTTY? Any
> suggestions or recommendation are welcome.

I use my TS520 for PSK31. It drifts pretty drastically for a few
minutes after switch-on, to the extent that everything moves diagonally
in the waterfall! By the time the PA valves have warmed up the VFO is
nice and stable and it only drifts very very slowly, if at all.

Gordon

20056. Re: [TS-520_820_530_830] Re: TX Freq Drift on TS520SE during PSK31 operation

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-06 21:40:38 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20049 Message: 20056

On Fri, 2009-02-06 at 21:35 +0000, w5rkl wrote:
> Yes, that is true but, unfortunately, that would not correct the drift
> issue.

Well, it would to the same extent that using crystals would prevent any rig drifting, surely?

I thought the whole point of the fixed frequency crystals was that it used those instead of the VFO? You could crystal it up for the centre frequencies of the common PSK areas and tune the rest in fldigi (or whatever software you use).

Gordon

20057. Re: TX Freq Drift on TS520SE during PSK31 operation

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-06 23:07:29 UTC
From: w5rkl
Topic: 20049 Message: 20057

> Well, it would to the same extent that using crystals would prevent any rig drifting, surely?

That is true IF the crystal oscillator's power supply is stable. A crystal oscillator can drift if the supply voltage is not stable.

> I thought the whole point of the fixed frequency crystals was that it used those instead of the VFO?

That is true.

> You could crystal it up for the centre frequencies of the common PSK areas and tune the rest in fldigi (or whatever software you use).

Yes, that would work.

Although operating crystal control can provide a stable transmit signal, the operator may also want to operate other modes as well using the VFO. A VFO that drifts can be quite frustrating regardless of the mode.

Gordon, I was not discounting your suggestion of using crystals as a means of a stable signal. I only meant that using crystal control, although a good idea, didn't fix the VFO drift.

73
Mike
W5RKL

20058. Re: [TS-520_820_530_830] TX Freq Drift on TS520SE during PSK31 operation

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-07 00:03:06 UTC
From: Adam Wade
Topic: 20049 Message: 20058

On Friday, February 06, 2009 10:34 AM [Zulu -7],
robin_joe2000 <n9ok@...> wrote:

> Every time I call CQ, the replying station seems to be off my channel,
> meaning I can't hear replys. In fact, I was trying to reply to a CQ
> last night, was unsuccessful, then heard the resultant conversation
> where they were talking about the ham who was drifting all over the
> place. Embarrassing!

Yep, that should not be happening.

> Do any of you successfully run PSK31 on this rig? Any success on 20M,
> or am I limited to lower frequencies, or just limited to RTTY? Any
> suggestions or recommendation are welcome.

My TS-520S is good for PSK31, and I've used it for that for a good while.
The VFO does drift slowly for a while after I first fire the rig up, but it

is very slow, on the order of 10 hz every minute or two, and stops after
the
rig is well warmed up. It's always in the same direction, and is steady
(i.e., it starts out at a given rate in a given direction and slows
steadily
until it stops drifting, probably 20 min. to half an hour after switching
the rig on). Sounds like you have an issue if the rig is drifting
erratically, in both directions, and doesn't stabilize as the rig's temp
stabilizes. Can't help you diagnose it, but I can tell you that something
ain't right, and that once you find and sort it, you should be very good
for
PSK31. No one has ever really complained about the mild drift I get when
first operating, and it's slow and steady enough that it's easily tracked
by
both myself (to correct) and stations I'm QSOing; with a 6 db down point on

my tightest AF filter of 100 hz knee-to-shoulder I have never had a problem

seeing a station in QSO with me, even if I have been sending for several
minutes at a time not long after firing the rig up.

Of course the usual provisos apply re: not using more than about 40-50
watts
out with the rig, since it was designed for lower duty cycle apps like CW
and SSB, and PSK is 100% duty cycle and would be very hard on the PA finals

if driven at high power. If you have a decent antenna, you shouldn't need
100 watts anyhow, at least not on digital modes; to me that's one of the

joys, that almost everyone is working barefoot so even though you may not
be
able to afford a kilowatt and a half linear, you can still work DX with the

best of them if your operating skills and antenna system are up to snuff.
;)

! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
! "I write down everything I want to remember. That way, instead !
! of spending a lot of time trying to remember what it is I wrote !
! down, I spend z time looking for the paper I wrote it down on." !
! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !

20059. Re: [TS-520_820_530_830] Re: TX Freq Drift on TS520SE during PSK31 operation

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-07 00:05:17 UTC
From: Adam Wade
Topic: 20049 Message: 20059

On Friday, February 06, 2009 11:11 AM [Zulu -7],
Wim Penders <wpenders@...> wrote:

> I don't think the transceivers of that age, be it Kenwood or Yaesu are
> usable for PSK.

I've got about 150 PSK contacts that would say you're wrong. ;) That's in

a total span from the start of October 2008 until mid-January of this year
(I've been mostly working SSB on my Orion since I got it, but have the 520
again hooked up in the shack and will be working data modes again shortly,
with both it and the Orion).

> I can be wrong in this, but the culprit is the analog
> VFO, that always wanders around, even after a warmup period.

If your Kenwood VFO wanders after the warmup period, and/or is erratic, I'd

say there is something wrong with it. Chances are good that most
mechanical
VFOs will need maintenance before they are as old as the ones in our rigs,
and many of the Kenwood hybrid rigs have gotten none since the rigs were
new...

! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
! "I write down everything I want to remember. That way, instead !
! of spending a lot of time trying to remember what it is I wrote !
! down, I spend z time looking for the paper I wrote it down on." !
! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !

20060. Re: [TS-520_820_530_830] Re: Frequency Display Jumping

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-07 00:14:43 UTC
From: Dirk Anderson
Topic: 20011 Message: 20060

Hi Bob.

The freq.readout units for the TS-830S that you are selling, how much are they?
Thanks.
Dirk N5PEF

From: Bob Mansker <bmaintz@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, February 4, 2009 10:18:14 AM
Subject: [TS-520_820_530_830] Re: Frequency Display Jumping

Try cleaning the push-on connectors with a little of DeoXIT...
Also remove & install the mounting screws....
I do have bright steady Freq. Readout units for the TS-830S that I am
selling...
Bob
73s
KE5FTF
********** ******

--- In TS-520_820_530_ 830@yahoogroups. com, "n5pef@..." <n5pef@...> wrote:
>
> I was wondering if anyone can help me on this problem.
> I have a TS-830S and when I first turn it on the frequency display is
> working fine. About 10 to 15 minutes the display starts to jump around
> a little bit. As it warms up the more inaccurate it becomes.
> The receive a transmit is not moving only the frequency display.
> Is there anyone ever had this problem and or know what I should look at
> to fix this problem.
> I would appreciate anyone who can help me with this.
> Thanks and 73s
> N5PEF
>

[Non-text portions of this message have been removed]

20061. TS-520 - 40Mtr Driver slug

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-07 10:11:20 UTC
From: vu2jmx
Topic: 20061 Message: 20061

Hello everyone,

My 40 Mtr driver slug rotates freely without moving up or down.
Slug is not broken or cracked and I don't see any room on the other
side to push it back (out). I got this rig in this condition. I've
followed all the guidelines available here on this forum and elsewhere -
verbatim. I use the right tools for tuning.

A search for a similar thread did not yield any results, unless of
course I missed something..

Thanks in advance for your time.

73,
de Aron VU2JMX.

20062. Re: [TS-520_820_530_830] TS-520 - 40Mtr Driver slug

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-07 11:34:14 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20061 Message: 20062

On Sat, 2009-02-07 at 10:11 +0000, vu2jmx wrote:
> Hello everyone,
>
> My 40 Mtr driver slug rotates freely without moving up or down.
> Slug is not broken or cracked and I don't see any room on the other
> side to push it back (out). I got this rig in this condition. I've
> followed all the guidelines available here on this forum and elsewhere -
> verbatim. I use the right tools for tuning.

Is it right at the bottom? Perhaps that is the wrong slug that's been
dropped into the hole and is just spinning inside the threads?

Gordon

20063. Re: [TS-520_820_530_830] Re: TX Freq Drift on TS520SE during PSK31 operation

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-07 11:56:59 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20049 Message: 20063

On Fri, 2009-02-06 at 23:07 +0000, w5rkl wrote:
> > Well, it would to the same extent that using crystals would prevent
> any rig drifting, surely?
>
> That is true IF the crystal oscillator's power supply is stable. A
> crystal oscillator can drift if the supply voltage is not stable.
>
>
> > I thought the whole point of the fixed frequency crystals was that
> it used those instead of the VFO?
>
> That is true.
>
> > You could crystal it up for the centre frequencies of the common
> PSK areas and tune the rest in fldigi (or whatever software you use).
>
> Yes, that would work.
>
> Although operating crystal control can provide a stable transmit
> signal, the operator may also want to operate other modes as well
> using the VFO. A VFO that drifts can be quite frustrating regardless
> of the mode.

Yes indeed, particularly for other users (as the chap has mentioned himself - note to other ops, when you slag off someone's operating practices the chances are they can still hear you).

> Gordon, I was not discounting your suggestion of using crystals as a
> means of a stable signal. I only meant that using crystal control,
> although a good idea, didn't fix the VFO drift.

It wasn't me that originally suggested it. If his VFO is drifting that much, there is definitely a problem that needs sorted out. It would be interesting to put a scope on the power supply to the VFO - my money is on either a sagging power supply or RF getting in somewhere it shouldn't.

Gordon

20064. Re: [TS-520_820_530_830] TS-520 - 40Mtr Driver slug

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-07 13:17:19 UTC
From: Don Thomas
Topic: 20061 Message: 20064

If its really loose, maybe try tilting the radio upside down while trying to lightly turn the slug to see if you can work it out.

Don T.

--- On Sat, 2/7/09, vu2jmx <vu2jmx@...> wrote:

From: vu2jmx <vu2jmx@yahoo.com>
Subject: [TS-520_820_530_830] TS-520 - 40Mtr Driver slug
To: TS-520_820_530_830@yahoogroups.com
Date: Saturday, February 7, 2009, 4:11 AM

Hello everyone,

My 40 Mtr driver slug rotates freely without moving up or down.
Slug is not broken or cracked and I don't see any room on the other
side to push it back (out). I got this rig in this condition. I've
followed all the guidelines available here on this forum and elsewhere -
verbatim. I use the right tools for tuning.

A search for a similar thread did not yield any results, unless of
course I missed something..

Thanks in advance for your time.

73,
de Aron VU2JMX.

[Non-text portions of this message have been removed]

20065. Re: TX Freq Drift on TS520SE during PSK31 operation

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-07 17:49:14 UTC
From: Ross
Topic: 20049 Message: 20065

I own a TS-520 that I purchased in the early 80's. I have made 100's of PSK contacts with it in the last few years and many RTTY contacts before that. I have not ever experienced any drift in the radio. Many contacts are surprised I am operating PSK with a radio made in the 70's. They are surprised because the signal quality they see on their waterfalls is excellent, comparable to modern rigs. This radio also produces superb SSB audio.

You don't need a digital display to operate. You tune the rig to get the most signals inside the bandwidth using the waterfall display. It is irrelevant what the actual frequency is. You are zero beating to a range of signals and then you use the PSK software and the sound card to pick the Hz of the incoming signal.

I have found one of the most critical settings is the ALC. When transmitting the ALC should be close to zero. It is very easy to overdrive the radio with your soundcard.

I have never touched the innards of this rig. I can still get 100 watts, but operate digitally at 50 watts or less. I still am running the original finals.

My thinking is that you have to run this rig on a regular basis to keep it running well. If you don't move the VFO or knobs for a while, it seems to run less well.

As long as this rig performs, I will not be dinking with any of the internal components. I know when I remove the cover for any reason, it might be asking for more trouble than it might be worth.

Ross
N8GMY

20066. Re: TS820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-07 18:18:11 UTC
From: bragucci
Topic: 9983 Message: 20066

Thanks to everyone who helped me. I gave the processor switch a good shot of Deoxit but it didn't help. With the processor turned off I show about 55w output peak, nowhere near the 100+ I used to get. At this point I think I'll get it fixed by a pro. I'll check the web and see who does these repairs. Seems like it's beyond my ability.
Thanks again

Bart
KD8GTP

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Yes bart,
> A dirty Processor switch is a common problem on some of these old
> Radios. A good shot of De-Oxit then work the switch in and out a few
> times, should make it good as new for a long time.
> Let us know how it works out.
> 73,
> Gordon
> N6WK
>
> --- In TS-520_820_530_830@yahoogroups.com, "bragucci" <bragucci@>
> wrote:
> >
> > Thanks to everyone for their help! I found if I shut off the speech
> > processor my SSB goes back to the normal 100w output, turn it back on
> > and the output drops significantly. So, my guess is give the switch a
> > shot of deoxit? Would I have better luck opening the radio from the
> > bottom cover to access this? And if after cleaning I still have the
> > problem what else can I check with the switch?
> > Thx
> > Bart
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > >
> > > Bart,
> > >
> > > Yes, you can do the finger on the mic pins test in USB or LSB to see
> > > if output occurs. The 820 should be tuned up properly for maximum
> > > output then switch to USB or LSB, meter in RF, and flip the SEND
> > > switch up. Press your thumb firmly against the mic socket pins with
> > > the MIC gain set at 11 o'clock. You should see a "slight" rise
in the
> > > RF meter if everything is working properly. Do not look for a change

> > > (rise) in IP current or an ALC meter indication because you won't
> > see any.
> > >
> > > I have done this before with my 820 and the RF output is very
low but
> > > you should be able to see it on the 820's RF meter. If the RF output
> > > meter does not show a rise, either the RF meter pot on the rear
of the
> > > 820 is set too low OR there is a problem in your 820.
> > >
> > > 73
> > > Mike
> > > W5RKL
> > >
> > >
> > > --- In TS-520_820_530_830@...m, "bragucci" <bragucci@>
> > > wrote:
> > > >
> > > > Ok, cleaned the switchs using Deoxit. I checked the amplifier's
> > > > idling current, it's right on 60ma. What about the mic? I
> don't have
> > > > a spare one to test with, is there a quick test I can do to
rule it
> > > > out? Touching 2 of the mic connector prongs on the mic connector,
> > > > something like that? Anything that would rule the mic out? I
guess
> > > > I'm thinking like a troubleshooter now, got to have voice "in"
> to get
> > > > "rf" out :)
> > > > I appreciate your help in getting to the bottom of this.
> > > >
> > > >
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > > > >
> > > > > Hello Bart,
> > > > >
> > > > > If you have 100 watts output on CW then the driver tube is
not the
> > > > > problem.
> > > > >
> > > > > You might try cleaning the MIC gain control with contact cleaner
> > then
> > > > > rotate the MIC gain throughout it's travel a few times then
> > check the
> > > > > output on sideband again.
> > > > >
> > > > > You also might check the final amplifier's idling current, it
> should

> > > > > be 60ma. With the meter switch set to "IP", press the PTT
> button on
> > > > > the microphone the meter should read 60ma. If it's not then
> with the
> > > > > PTT button pressed, adjust the rear panel bias pot so the meter
> > reads
> > > > > 60ma. This procedure is outlined in the 820's operator's manual.
> > > > > >
> > > > > > 73
> > > > > > Mike
> > > > > > W5RKL
> > > > > > >
> > > > > > >
> > > > > > --- In TS-520_820_530_830@yahoogroups.com, "bragucci"
<bragucci@>
> > > > > > wrote:
> > > > > > > >
> > > > > > > > I;m sorry, but when I say 100w, that reading is from my
antenna
> > > tuner
> > > > > > > > meter. All my controls are set as usual, MIC gain, etc. When
> > I try
> > > > > > > > to transmit on LSB or USB the antenna tuner meter shows about
> > > 15w, in
> > > > > > > > CW it shows 100w. My SSB is always around 100w out put,
> > > suddenly only
> > > > > > > > 15w. I didn't explain too well the first time, sorry. I have
> > > had the
> > > > > > > > radio over 1 year and have always had 100w or more output on
> > > SSB. The
> > > > > > > > radio wasn't used for a few days and when I turned it on and
> > > tuned up
> > > > > > > > I only had 15w out as shown on the antenna tuner meter.
> > > > > > > > So, something has made my output on SSB drop by about 85w,
again
> > > CW is
> > > > > > > > a good 100w out put. Could it be the driver tube? Are
> there any
> > > > > > > > measurement tests I can make using the meter on the radio
> that may
> > > > > > > > show what happened to reduce the power?
> > > > > > > > Help is appreciated!
> > > > > > > > Thx
> > > > > > > > Bart
> > > > > > > > KD8GTP
> > > > > > > >
> > > > > > > >
> > > > > > > >
> > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@>
> wrote:

> > > > > > >
> > > > > > > >
> > > > > > > > What position is the MIC gain setting (8, 9, 10 o'clock)?
> > > > > > > >
> > > > > > > > I use a Shure 444 with the MIC gain set between 9 and 10
> > > > o'clock. This
> > > > > > > > results in a low ALC meter indication and about 20 watts
> output
> > > > on my
> > > > > > > > "average" Drake MN-2000 and Heathkit HM-102 watt meter. A
> > low ALC
> > > > > > > > reading is what you should strive for, not a high ALC
reading.
> > > > > > > >
> > > > > > > > If you are using the 820's RF meter setting, understand that
> > > the RF
> > > > > > > > meter in the 820 is nothing more than a "relative" RF output
> > > > meter. It
> > > > > > > > is not a watt meter. It's showing a low reading then
clean the
> > > RF pot
> > > > > > > > on the rear panel and adjust the rear panel pot for 3/4
scale
> > > reading
> > > > > > > > at 100 watt output on CW. Make sure you are adjusting the RF
> > > > meter pot
> > > > > > > > and not the bias pot.
> > > > > > > >
> > > > > > > > Don't turn up the MIC gain to get a higher output on the
watt
> > > meter.
> > > > > > > > You will only cause adjacent interference, splatter. If
> you are
> > > > > > > > receiving good audio reports and normal signal level reports
> > then
> > > > > > > > there's nothing wrong with your 820.
> > > > > > > >
> > > > > > > > 73
> > > > > > > > Mike
> > > > > > > > W5RKL
> > > > > > > >
> > > > > > > >
> > > > > > > >
> > > > > > > >
> > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "bragucci"
> > <bragucci@>
> > > > > > > > wrote:
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> > > > > > > > same on USB, just 10-15w output, yet cw is a full 100w. I
> > > > > > cleaned all

> > > > > > > > switches, same problem
> > > > > > > > >
> > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl"
<w5rkl@>
> > > wrote:
> > > > > > > > > >
> > > > > > > > > > Bart,
> > > > > > > > > > >
> > > > > > > > > > How is the output on USB, is it the same?
> > > > > > > > > > >
> > > > > > > > > > I recommend cleaning the mode switch with contact
cleaner.
> > > > > > > > > >
> > > > > > > > > > 73
> > > > > > > > > > Mike
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> > > > > > > > > > My TS820 was functioning fine two days ago. Today I
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> > > > > > it on,
> > > > > > > > > > tuned up on 40m and tried to transmit, only put out
> a few
> > > > > watts on
> > > > > > > > > > LSB. I tried CW and got my normal 100w out. I
tried to
> > > > tune up
> > > > > > > > again
> > > > > > > > > > and was able to get 10-15w out, again CW was 100w
out.
> > > I went
> > > > > > over
> > > > > > > > > > the mic/connector and all connections are good. Any
> > ideas!
> > > > > > > > > > Thx
> > > > > > > > > > Bart
> > > > > > > > > > KD8GTP
> > > > > > > > > >
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20067. Re: TS820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-07 18:21:56 UTC
From: bragucci
Topic: 9983 Message: 20067

Speaking into a microphone with the watt meter on my antenna tuner,
100w peak is my usual on SSB.

--- In TS-520_820_530_830@yahoogroups.com, "al_kozakiewicz"
<akozak@...> wrote:
>
> My question is: under what conditions were you measuring 100W output
> on SSB? Were you feeding a test tone into the audio input? Or just
> speaking into a microphone?
>
> Al
> AB2ZY
>
> --- In TS-520_820_530_830@yahoogroups.com, "bragucci" <bragucci@>
> wrote:
> >
> > I;m sorry, but when I say 100w, that reading is from my antenna
> tuner
> > meter. All my controls are set as usual, MIC gain, etc. When I try
> > to transmit on LSB or USB the antenna tuner meter shows about 15w,
> in
> > CW it shows 100w. My SSB is always around 100w out put, suddenly
> only
> > 15w. I didn't explain too well the first time, sorry. I have had
> the
> > radio over 1 year and have always had 100w or more output on SSB.
> The
> > radio wasn't used for a few days and when I turned it on and tuned
> up
> > I only had 15w out as shown on the antenna tuner meter.
> > So, something has made my output on SSB drop by about 85w, again CW
> is
> > a good 100w out put. Could it be the driver tube? Are there any
> > measurement tests I can make using the meter on the radio that may
> > show what happened to reduce the power?
> > Help is appreciated!
> > Thx
> > Bart
> > KD8GTP
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > >
> > >

> > > What position is the MIC gain setting (8, 9, 10 o'clock)?
> > >
> > > I use a Shure 444 with the MIC gain set between 9 and 10 o'clock.
> This
> > > results in a low ALC meter indication and about 20 watts output
> on my
> > > "average" Drake MN-2000 and Heathkit HM-102 watt meter. A low ALC
> > > reading is what you should strive for, not a high ALC reading.
> > >
> > > If you are using the 820's RF meter setting, understand that the
> RF
> > > meter in the 820 is nothing more than a "relative" RF output
> meter. It
> > > is not a watt meter. It's showing a low reading then clean the RF
> pot
> > > on the rear panel and adjust the rear panel pot for 3/4 scale
> reading
> > > at 100 watt output on CW. Make sure you are adjusting the RF
> meter pot
> > > and not the bias pot.
> > >
> > > Don't turn up the MIC gain to get a higher output on the watt
> meter.
> > > You will only cause adjacent interference, splatter. If you are
> > > receiving good audio reports and normal signal level reports then
> > > there's nothing wrong with your 820.
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> > > 73
> > > Mike
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> > > > > How is the output on USB, is it the same?
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> it on,
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> > > > > > and was able to get 10-15w out, again CW was 100w out. I
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> > > > > > Bart
> > > > > > KD8GTP
> > > > > >
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> > > >
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> >
>

20068. Re: TS820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-07 18:38:11 UTC
From: w5rkl
Topic: 9983 Message: 20068

Are you sure the problem is your radio and not your watt meter? Is it possible you have an average watt meter and not a PEP watt meter? If you have an average watt meter you will not see 100 watts output on sideband. If you see 100 watts output on sideband with an average watt meter your MIC gain is set way too high.

Good luck.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "bragucci" <bragucci@...> wrote:
>
> Thanks to everyone who helped me. I gave the processor switch a good
> shot of Deoxit but it didn't help. With the processor turned off I
> show about 55w output peak, nowhere near the 100+ I used to get. At
> this point I think I'll get it fixed by a pro. I'll check the web and
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> Thanks again
>
> Bart
> KD8GTP
>
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> >
> > Yes bart,
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> > Radios. A good shot of De-Oxit then work the switch in and out a few
> > times, should make it good as new for a long time.
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> > > and the output drops significantly. So, my guess is give the
switch a
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> > > > Bart,
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> > > > Yes, you can do the finger on the mic pins test in USB or LSB
to see
> > > > if output occurs. The 820 should be tuned up properly for maximum
> > > > output then switch to USB or LSB, meter in RF, and flip the SEND
> > > > switch up. Press your thumb firmly against the mic socket pins
with
> > > > the MIC gain set at 11 o'clock. You should see a "slight" rise
> in the
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> low but
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> > > > > out? Touching 2 of the mic connector prongs on the mic
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> > > > > something like that? Anything that would rule the mic out? I
> guess
> > > > > I'm thinking like a troubleshooter now, got to have voice "in"
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> > > > > "rf" out :)
> > > > > I appreciate your help in getting to the bottom of this.
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> > > > >
> > > > >
> > > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@>
wrote:
> > > > > >
> > > > > > Hello Bart,
> > > > > >
> > > > > > If you have 100 watts output on CW then the driver tube is
> not the
> > > > > > problem.
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> > > > > > You might try cleaning the MIC gain control with contact
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> > button on
> > > > > > the microphone the meter should read 60ma. If it's not then
> > with the
> > > > > > PTT button pressed, adjust the rear panel bias pot so the
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When
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I have
> > > > had the
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> > > > > > > I only had 15w out as shown on the antenna tuner meter.
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> again
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> > > > > > > show what happened to reduce the power?
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> > > > > > > KD8GTP
> > > > > > >
> > > > > > >
> > > > > > >
> > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@>
> > wrote:
> > > > > > >
> > > > > > >
> > > > > > > What position is the MIC gain setting (8, 9, 10 o'clock)?
> > > > > > >
> > > > > > > I use a Shure 444 with the MIC gain set between 9 and 10
> > > > > > o'clock. This
> > > > > > > results in a low ALC meter indication and about 20 watts
> > output
> > > > > > on my
> > > > > > > "average" Drake MN-2000 and Heathkit HM-102 watt meter. A
> > > low ALC
> > > > > > > reading is what you should strive for, not a high ALC
> reading.
> > > > > > >
> > > > > > > If you are using the 820's RF meter setting,
understand that
> > > > the RF
> > > > > > > meter in the 820 is nothing more than a "relative" RF
output
> > > > > > meter. It
> > > > > > > is not a watt meter. It's showing a low reading then

> clean the
> > > > > RF pot
> > > > > > > > > on the rear panel and adjust the rear panel pot for 3/4
> scale
> > > > > reading
> > > > > > > > > at 100 watt output on CW. Make sure you are adjusting
the RF
> > > > > meter pot
> > > > > > > > > and not the bias pot.
> > > > > > > > >
> > > > > > > > > Don't turn up the MIC gain to get a higher output on the
> watt
> > > > meter.
> > > > > > > > > You will only cause adjacent interference, splatter. If
> > you are
> > > > > > > > > receiving good audio reports and normal signal level
reports
> > > then
> > > > > > > > > there's nothing wrong with your 820.
> > > > > > > > >
> > > > > > > > > 73
> > > > > > > > > Mike
> > > > > > > > > W5RKL
> > > > > > > > >
> > > > > > > > >
> > > > > > > > >
> > > > > > > > >
> > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "bragucci"
> > > <bragucci@>
> > > > > > > > > wrote:
> > > > > > > > >
> > > > > > > > > same on USB, just 10-15w output, yet cw is a full
100w. I
> > > > > > > > > cleaned all
> > > > > > > > > switches, same problem
> > > > > > > > >
> > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl"
> <w5rkl@>
> > > wrote:
> > > > > > > > >
> > > > > > > > > Bart,
> > > > > > > > >
> > > > > > > > > How is the output on USB, is it the same?
> > > > > > > > >
> > > > > > > > > I recommend cleaning the mode switch with contact
> cleaner.
> > > > > > > > >
> > > > > > > > > 73
> > > > > > > > > Mike
> > > > > > > > > W5RKL

> > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "bragucci"
> > > > > <bragucci@>
> > > > > > > > > > > wrote:
> > > > > > > > > > > >
> > > > > > > > > > > > My TS820 was functioning fine two days ago. Today I
> > > turned
> > > > > > it on,
> > > > > > > > > > > > > tuned up on 40m and tried to transmit, only put out
> > a few
> > > > > > watts on
> > > > > > > > > > > > > LSB. I tried CW and got my normal 100w out. I
> tried to
> > > > > tune up
> > > > > > > > > > again
> > > > > > > > > > > > > and was able to get 10-15w out, again CW was 100w
> out.
> > > > I went
> > > > > > > > over
> > > > > > > > > > > > > the mic/connector and all connections are good. Any
> > > ideas!
> > > > > > > > > > > > Thx
> > > > > > > > > > > > Bart
> > > > > > > > > > > > KD8GTP
> > > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > >
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>

20069. Re: [TS-520_820_530_830] Re: TS820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-07 18:48:12 UTC
From: Adam Wade
Topic: 9983 Message: 20069

On Saturday, February 07, 2009 10:18 AM [Zulu -7],
bragucci <bragucci@...> wrote:

> Thanks to everyone who helped me. I gave the processor switch a good
> shot of Deoxit but it didn't help. With the processor turned off I
> show about 55w output peak, nowhere near the 100+ I used to get.

Unless you have a true peak reading meter that is calibrated for each band
(the cheapest ones I have seen that fit this description cost about $200;
if
you aren't sure what I mean, you are very unlikely to have one in your
possession!), your "peak" reading is a lot lot closer to average power out.

What band are you making these measurements on? In reality, you should be
seeing somewhere around ~60 watts average with the processor at best, and
~20-30 watts without the processor. Since meters that are not filtered and

calibrated by band will pretty mcuh always read differently on different
bands for the same actual power output, generally higher readings at higher

frequencies IIRC, you may well just have a typical inexpensive meter and
are
onn a band for which it is not calibrated, and what you are seeing with the

processor off may well be normal.

I would agree, however, that you have a problem with the processor of some
sort that needs repair. But you may well find that the numbers you got
before the problem and the number you're getting now with processor off are

accurate in a relative sense, but are way off in an absolute sense.

! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
! "I write down everything I want to remember. That way, instead !
! of spending a lot of time trying to remember what it is I wrote !
! down, I spend z time looking for the paper I wrote it down on." !
! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !

20070. Re: [TS-520_820_530_830] Re: TS820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-07 18:54:57 UTC
From: Adam Wade
Topic: 9983 Message: 20070

On Saturday, February 07, 2009 10:21 AM [Zulu -7],
bragucci <bragucci@...> wrote:

> Speaking into a microphone with the watt meter on my antenna tuner,
> 100w peak is my usual on SSB.

Even the best peak meters will show very few needle deflections all the way

to 100W when you're running SSB and are actually peaking at 100W PEP, since

the human voice doesn't often produce sound levels high enough to drive the

finals all the way to their limit. I'll wager that if you key-down after
tune-up at full power in CW you will see more than 100W on your meter; is
that the case? If so, then you KNOW your meter is not accurate.

Do you have a true peak-reading meter? Nearly all of them have a switch to

allow average or PEP readings to be taken.

! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
! "I write down everything I want to remember. That way, instead !
! of spending a lot of time trying to remember what it is I wrote !
! down, I spend z time looking for the paper I wrote it down on." !
! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !

20071. Re: TS820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-07 18:56:08 UTC
From: bragucci
Topic: 9983 Message: 20071

Hi Mike:
I measure with the watt meter on my antenna tuner. A MFJ-969, it measures both peak and average. Anytime I mention 100w I mean 100w peak on the meter. I've had the radio about two years and no chnages have been made, same mic, antenna, antenna tuner, etc. On SSB I always show 100w+ peak on the antenna meter,now I have about 35-55w peak, and to get that I have to shut off the speech processor which I usually keep turned on. With the processor on it barely moves the meter. But, CW shows my normal 100w output. So something has gone wrong somewhere in the radio. I cleaned all siwtches with Deoxit, giving special attention to the processor switch, no change. Last night I did try transmitting again, and turned on the processor, it did work for a short time, maybe 20min, then I had to shut off the processor again to get the below normal output. It's frustrating :(I probably didn't explain the situation too well the first few times. But summing it all up the radio was working great until last week, I tuned up and had no SSB output, CW was normal. Shutting off the processor got me about 35-55w output peak, not the normal 100w peak, again using my antenna tuner meter to measure. If you have anyother ideas let me know!! If not I need the name of someone who fixes these older rigs. Maybe with a little bit better than a 2-3 month backlog :) I appreciate your help :)

Thx
Bart

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Are you sure the problem is your radio and not your watt meter? Is it
> possible you have an average watt meter and not a PEP watt meter? If
> you have an average watt meter you will not see 100 watts output on
> sideband. If you see 100 watts output on sideband with an average watt
> meter your MIC gain is set way too high.
>
> Good luck.
>
> 73
> Mike
> W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "bragucci" <bragucci@>
> wrote:
> >
> > Thanks to everyone who helped me. I gave the processor switch a good

> > shot of Deoxit but it didn't help. With the processor turned off I
> > show about 55w output peak, nowhere near the 100+ I used to get. At
> > this point I think I'll get it fixed by a pro. I'll check the web and
> > see who does these repairs. Seems like it's beyond my ability.
> > Thanks again
> >
> > Bart
> > KD8GTP
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > >
> > > Yes bart,
> > > A dirty Processor switch is a common problem on some of these old
> > > Radios. A good shot of De-Oxit then work the switch in and out a few
> > > times, should make it good as new for a long time.
> > > Let us know how it works out.
> > > 73,
> > > Gordon
> > > N6WK
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "bragucci" <bragucci@>
> > > wrote:
> > > >
> > > > Thanks to everyone for their help! I found if I shut off the
speech
> > > > processor my SSB goes back to the normal 100w output, turn it
> back on
> > > > and the output drops significantly. So, my guess is give the
> switch a
> > > > shot of deoxit? Would I have better luck opening the radio
from the
> > > > bottom cover to access this? And if after cleaning I still
have the
> > > > problem what else can I check with the switch?
> > > > Thx
> > > > Bart
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > > > >
> > > > > Bart,
> > > > >
> > > > > Yes, you can do the finger on the mic pins test in USB or LSB
> to see
> > > > > if output occurs. The 820 should be tuned up properly for
maximum
> > > > > output then switch to USB or LSB, meter in RF, and flip the SEND
> > > > > switch up. Press your thumb firmly against the mic socket pins
> with

> > > > > the MIC gain set at 11 o'clock. You should see a "slight" rise
> > in the
> > > > > RF meter if everything is working properly. Do not look for a
> change
> > > > > (rise) in IP current or an ALC meter indication because you
won't
> > > > see any.
> > > > >
> > > > > I have done this before with my 820 and the RF output is very
> > low but
> > > > > you should be able to see it on the 820's RF meter. If the RF
> output
> > > > > meter does not show a rise, either the RF meter pot on the rear
> > of the
> > > > > 820 is set too low OR there is a problem in your 820.
> > > > >
> > > > > 73
> > > > > Mike
> > > > > W5RKL
> > > > >
> > > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com, "bragucci"
<bragucci@>
> > > > > wrote:
> > > > > >
> > > > > > Ok, cleaned the switchs using Deoxit. I checked the
amplifier's
> > > > > > idling current, it's right on 60ma. What about the mic? I
> > > don't have
> > > > > > a spare one to test with, is there a quick test I can do to
> > rule it
> > > > > > out? Touching 2 of the mic connector prongs on the mic
> connector,
> > > > > > something like that? Anything that would rule the mic out? I
> > guess
> > > > > > I'm thinking like a troubleshooter now, got to have voice "in"
> > > to get
> > > > > > "rf" out :)
> > > > > > I appreciate your help in getting to the bottom of this.
> > > > > >
> > > > > >
> > > > > >
> > > > > >
> > > > > > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@>
> wrote:
> > > > > > >
> > > > > > > Hello Bart,
> > > > > > >
> > > > > > > If you have 100 watts output on CW then the driver tube is
> > not the

> > > > > > > problem.
> > > > > > > >
> > > > > > > > You might try cleaning the MIC gain control with contact
> cleaner
> > > > then
> > > > > > > rotate the MIC gain throughout it's travel a few times then
> > > > check the
> > > > > > > output on sideband again.
> > > > > > > >
> > > > > > > > You also might check the final amplifier's idling
current, it
> > > should
> > > > > > > be 60ma. With the meter switch set to "IP", press the PTT
> > > button on
> > > > > > > the microphone the meter should read 60ma. If it's not then
> > > with the
> > > > > > > PTT button pressed, adjust the rear panel bias pot so the
> meter
> > > > reads
> > > > > > > 60ma. This procedure is outlined in the 820's operator's
> manual.
> > > > > > > >
> > > > > > > > 73
> > > > > > > > Mike
> > > > > > > > W5RKL
> > > > > > > >
> > > > > > > >
> > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "bragucci"
> > <bragucci@>
> > > > > > > wrote:
> > > > > > > >
> > > > > > > > I;m sorry, but when I say 100w, that reading is from my
> > antenna
> > > > > > tuner
> > > > > > > > meter. All my controls are set as usual, MIC gain, etc.
> When
> > > > I try
> > > > > > > > to transmit on LSB or USB the antenna tuner meter shows
> about
> > > > 15w, in
> > > > > > > > CW it shows 100w. My SSB is always around 100w out put,
> > > > suddenly only
> > > > > > > > 15w. I didn't explain too well the first time, sorry.
> I have
> > > > had the
> > > > > > > > radio over 1 year and have always had 100w or more
output on
> > > > SSB. The
> > > > > > > > radio wasn't used for a few days and when I turned it
on and

> > > > > tuned up
> > > > > > > > > I only had 15w out as shown on the antenna tuner meter.
> > > > > > > > > So, something has made my output on SSB drop by about 85w,
> > again
> > > > > CW is
> > > > > > > > > a good 100w out put. Could it be the driver tube? Are
> > > there any
> > > > > > > > > measurement tests I can make using the meter on the radio
> > > that may
> > > > > > > > > show what happened to reduce the power?
> > > > > > > > > Help is appreciated!
> > > > > > > > > Thx
> > > > > > > > > Bart
> > > > > > > > > KD8GTP
> > > > > > > > >
> > > > > > > > >
> > > > > > > > >
> > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl"
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> > > > > > > > >
> > > > > > > > >
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> > > > > > > > >
> > > > > > > > > I use a Shure 444 with the MIC gain set between 9 and 10
> > > > > > > o'clock. This
> > > > > > > > > results in a low ALC meter indication and about 20 watts
> > > output
> > > > > > on my
> > > > > > > > > "average" Drake MN-2000 and Heathkit HM-102 watt
meter. A
> > > > low ALC
> > > > > > > > > reading is what you should strive for, not a high ALC
> > reading.
> > > > > > > > >
> > > > > > > > > If you are using the 820's RF meter setting,
> understand that
> > > > > the RF
> > > > > > > > > meter in the 820 is nothing more than a "relative" RF
> output
> > > > > meter. It
> > > > > > > > > is not a watt meter. It's showing a low reading then
> > clean the
> > > > > > RF pot
> > > > > > > > > on the rear panel and adjust the rear panel pot for 3/4
> > scale
> > > > > reading
> > > > > > > > > at 100 watt output on CW. Make sure you are adjusting
> the RF

> > > > > > meter pot
> > > > > > > > > > and not the bias pot.
> > > > > > > > > >
> > > > > > > > > > Don't turn up the MIC gain to get a higher output on the
> > watt
> > > > > > meter.
> > > > > > > > > > You will only cause adjacent interference, splatter. If
> > > you are
> > > > > > > > > > receiving good audio reports and normal signal level
> reports
> > > > > then
> > > > > > > > > > there's nothing wrong with your 820.
> > > > > > > > > >
> > > > > > > > > > 73
> > > > > > > > > > Mike
> > > > > > > > > > W5RKL
> > > > > > > > > >
> > > > > > > > > >
> > > > > > > > > >
> > > > > > > > > >
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> > > > > > > > > > switches, same problem
> > > > > > > > > >
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> > > > > > > > > > > > > > > > > > Bart,
> > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > > How is the output on USB, is it the same?
> > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > > I recommend cleaning the mode switch with contact
> > cleaner.
> > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > > 73
> > > > > > > > > > > > > > > > > > Mike
> > > > > > > > > > > > > > > > > > W5RKL
> > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com,
"bragucci"
> > > > > > <bragucci@>
> > > > > > > > > > > > > > > > > > wrote:
> > > > > > > > > > > > > > > > > > >

> > > > > > > > > > > > > My TS820 was functioning fine two days ago.
Today I
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> > > > > > > it on,
> > > > > > > > > > > > > tuned up on 40m and tried to transmit, only
put out
> > > a few
> > > > > > > watts on
> > > > > > > > > > > > > LSB. I tried CW and got my normal 100w out. I
> > tried to
> > > > > > > tune up
> > > > > > > > > > again
> > > > > > > > > > > > > and was able to get 10-15w out, again CW was 100w
> > out.
> > > > > > I went
> > > > > > > > > over
> > > > > > > > > > > > > the mic/connector and all connections are
good. Any
> > > > > ideas!
> > > > > > > > > > > > > Thx
> > > > > > > > > > > > > Bart
> > > > > > > > > > > > > KD8GTP
> > > > > > > > > > > > >
> > > > > > > > > > > > >
> > > > > > > > > > > > >

20072. Re: [TS-520_820_530_830] Re: TS820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-07 19:50:46 UTC
From: Adam Wade
Topic: 9983 Message: 20072

On Saturday, February 07, 2009 10:56 AM [Zulu -7],
bragucci <bragucci@...> wrote:

> I measure with the watt meter on my antenna tuner. A MFJ-969, it
> measures both peak and average. Anytime I mention 100w I mean 100w
> peak on the meter.

It's unlikely that MFJ makes a true peak-reading meter. If it is an
electromechanical meter movement and there's no knob to adjust peak hold,
then the meter will very rarely show actual peaks, because the movement
can't respond anywhere near quick enough to indicate a peak before the peak

driving the meter has ended.

> On SSB I
> always show 100w+ peak on the antenna meter,

The meter is very unlikely to be accurate on the band in question, since
your radio is pretty unlikely to ever be putting out in excess of 100W.
Does
it read the same with the same input levels on all bands?

> now I have about 35-55w
> peak, and to get that I have to shut off the speech processor which I
> usually keep turned on.

This is typical of what you will see on a meter that doesn't really display

PEP when you shut off the processor, as the average power level falls while

the peaks stay about the same when the proc unit is shut off.

> Shutting off the
> processor got me about 35-55w output peak, not the normal 100w peak,
> again using my antenna tuner meter to measure.

Since this is almost certainly NOT a true peak reading meter, that's
exactly
what you would expect to see. That's why the processor is there, and why
people who don't have processors use compressors on their mic audio
sometimes, as the average power level gets raised by these devices.

! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
! "I write down everything I want to remember. That way, instead !
! of spending a lot of time trying to remember what it is I wrote !
! down, I spend z time looking for the paper I wrote it down on." !
! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !

20073. Re: TS820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-07 20:12:15 UTC
From: bragucci
Topic: 9983 Message: 20073

I'm going by what the meter read before the problem started compared to what it reads now. Before the problem started it read 100w+ peak on SSB, now it reads maybe 55w peak, that tells me that something has changed. If the meter is accurate doesn't matter, I use it as a baseline, so if I seeing 100w+ peak on SSB, and now only see say 55w peak, that means something is wrong. The meter is on the antenna tuner, MFJ-969. It probably isn't accurate, but if I've always had 100w peak for the last 2 years, then suddenly have 55w peak that tells me I have a problem with output.
I'm using the same mic, antenna, etc as I've used for the past few years, when I transmit on SSB I watch the meter on the tuner, I know what is "normal" for my radio, when I transmit and see something different then I normally see then it tells me something isn't right :)

Thx
Bart

--- In TS-520_820_530_830@yahoogroups.com, Adam Wade <espresso_doppio@...> wrote:
>
> On Saturday, February 07, 2009 10:21 AM [Zulu -7],
> bragucci <bragucci@...> wrote:
>
> > Speaking into a microphone with the watt meter on my antenna tuner,
> > 100w peak is my usual on SSB.
>
>
> Even the best peak meters will show very few needle deflections all the way
>
> to 100W when you're running SSB and are actually peaking at 100W PEP, since
>
> the human voice doesn't often produce sound levels high enough to drive the
>
> finals all the way to their limit. I'll wager that if you key-down after
> tune-up at full power in CW you will see more than 100W on your meter; is
> that the case? If so, then you KNOW your meter is not accurate.
>
> Do you have a true peak-reading meter? Nearly all of them have a switch to
>

> allow average or PEP readings to be taken.
>
> ! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
> ! "I write down everything I want to remember. That way, instead !
> ! of spending a lot of time trying to remember what it is I wrote !
> ! down, I spend z time looking for the paper I wrote it down on." !
> ! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !
>

20074. Re: [TS-520_820_530_830] Re: TS 830s: Problem with VOX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-07 20:23:01 UTC
From: Fabio Scherrer
Topic: 20002 Message: 20074

Hi Mike
First of all, let me resume the main problem, maybe I never mentioned it properly.
VOX is normally working in SSB, I mean, when I switch the vox control (gain and delay) on the front panel of the ts 830s, it works correct.
When I want to transmit on CW, using the VOX with gain and delay from front panel, it does not switch into TX when I use the electronic paddle (Bencher-similar CW-Keyer). To transmit on CW I have to switch manually the switch in the front panel from REC to SEND. But, I don't hear the SIDETONE coming from the TS 830s (sorry, I didn't know until yesterday what is in english the "sidetone"... now I understood it, or at least I think to have it understood...), so in other words, on RX when I am keing the CW, I don't hear any tone in the "background".
I did what you suggested here below in your email and the reults are the following:
I have been checking the voltage at TP2 of the AF unit: in RX the voltage is zero, if I go on TX (= I switch from REC to SEND and I send a tone from the CW Keyer) TP2 remains at zero, so not going to 0.5 VDC on TP2. I have been checking Diode D5 on the AF unit, but it seems to be OK. I have measured the Diode D5 without desoldering it from the AF Unit and it does seem to work properly.
Refering to your previous email (where you suggested to measure D9 at TP2... please apologize, but I just have read that email of you, after having reassembled the TS830s, so I didn?t check it until now... I will most probably do it tomorrow and then let you know if the Diode D9 is working properly or not. In any case, what seems to be for sure wrong, is that Voltage at TP2 while Txing does not show 0.5 VDC, but zero.

I don?t
know if you have any additional suggestion before I will measure if D9 is OK or not. In any case, once more MNI MNI TNX for your great help and congratulations to be very precise on describing where to find what in the AF units, I really appreciated it a lot! I am not experienced at all on opening a transceiver, so you can imagine, I am very careful, because I don?t want to create more problems instead of solving what is not working at the moment...

Mike,
Thanks so much for your great help, I wish you a nice weekend and hope to read you soon. When I have additional information after after having measured D9 on AF Unit, I will let you know.
Best 73?s de Fabio, HB9FAP

From: W5RKL <w5rkl@...>
To: Fabio Scherrer <hb9fap@yahoo.com>
Sent: Friday, February 6, 2009 3:31:50 PM
Subject: Re: [TS-520_820_530_830] Re: TS 830s: Problem with VOX

Hello Fabio,

Since you said VOX is working in sideband mode but not CW, I suggested checking the voltage at TP2 on the AF Unit. If diode D5 is good, pressing the CW key in CW mode should cause the voltage at TP2 to change from zero to .5VDC. If diode D5 is open, the voltage at TP2 will not change when the CW key is pressed, it will remain at zero. Diode D5 is a 35VDC 300ma switching diode. Any 35VDC 300ma or higher switching diode should work fine as a replacement.

If diode D5 is open you will still hear the CW sidetone in the speaker/headphones but the sidetone audio signal will not be rectified by diode D5 in order to control transistor Q12 and the circuits after transistor Q12.

All of the above information is assuming diode D5 being open.

73
Mike
W5RKL

[Non-text portions of this message have been removed]

20075. Re: [TS-520_820_530_830] Re: TS 830s: Problem with VOX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-07 22:08:38 UTC
From: Bill Linn
Topic: 20002 Message: 20075

Fabio, will a straight key work using the VOX? If so, it could be
that the keyer doesn't key the higher voltage of the 830.. I had to
build a keying relay to make mine work. (The keyer output keys the
relay and the relay keys the 830) Then I bought a "Keyall" kit from
Jackson Harbor Press. http://home.att.net/~jacksonharbor/keyall.htm

Bill - W7WEL

On Sun, Feb 8, 2009 at 4:23 AM, Fabio Scherrer <hb9fap@...> wrote:
>
> Hi Mike
> First of all, let me resume the main problem, maybe I never mentioned it
> properly.
> VOX is normally working in SSB, I mean, when I switch the vox control (gain and
> delay) on the front panel of the ts 830s, it works correct.
> When I want to transmit on CW, using the VOX with gain and delay from front
> panel, it does not switch into TX when I use the electronic paddle
> (Bencher-similar CW-Keyer). To transmit on CW I have to switch manually the
> switch in the front panel from REC to SEND. But, I don't hear the SIDETONE
> coming from the TS 830s (sorry, I didn't know until yesterday what is in english the
> "sidetone"... now I understood it, or at least I think to have it understood...), so in
other words, on RX when I am keing the CW, I don't hear any tone in the "background".
> I did what you suggested here below in your email and the reults are the
> following:
> I have been checking the voltage at TP2 of the AF unit: in RX the voltage is
> zero, if I go on TX (= I switch from REC to SEND and I send a tone from the CW
> Keyer) TP2 remains at zero, so not going to 0.5 VDC on TP2. I have been checking
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> Txing does not show 0.5 VDC, but zero.
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> I don¢t
> know if you have any additional suggestion before I will measure if D9 is OK or
> not. In any case, once more MNI MNI TNX for your great help and congratulations
> to be very precise on describing where to find what in the AF units, I really
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> AF Unit, I will let you know.
> Best 73¢s de Fabio, HB9FAP
>
>
>
> _____
> From: W5RKL <w5rkl@...>
> To: Fabio Scherrer <hb9fap@...>
> Sent: Friday, February 6, 2009 3:31:50 PM
> Subject: Re: [TS-520_820_530_830] Re: TS 830s: Problem with VOX
>
>
> Hello Fabio,
>
> Since you said VOX is working in sideband mode but not CW, I suggested checking the voltage at TP2 on the AF Unit. If diode D5 is good, pressing the CW key in CW mode should cause the voltage at TP2 to change from zero to .5VDC. If diode D5 is open, the voltage at TP2 will not change when the CW key is pressed, it will remain at zero. Diode D5 is a 35VDC 300ma switching diode. Any 35VDC 300ma or higher switching diode should work fine as a replacement.
>
> If diode D5 is open you will still hear the CW sidetone in the speaker/headphones but the sidetone audio signal will not be rectified by diode D5 in order to control transistor Q12 and the circuits after transistor Q12.
>
> All of the above information is assuming diode D5 being open.
>
> 73
> Mike
> W5RKL
>
>
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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20076. Re: TS 830s: Problem with VOX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 00:14:45 UTC
From: w5rkl
Topic: 20002 Message: 20076

"To transmit on CW I have to switch manually the switch in the front
panel from REC to SEND. But, I don't hear the SIDETONE coming from the
TS 830s"

If the CW sidetone oscillator is not working when the CW key in CW
mode is pressed, the 830 will not change to transmit. The CW sidetone
activates the 830's VOX circuit in CW mode which changes the 830 from
receive to transmit.

It doesn't matter whether the key is a straight key, keyer, or any
other form of CW keying, the CW sidetone must be present at the input
to the VOX circuit for the 830 CW break-in to work.

I'll check the 830's schematic and try to find where the sidetone
problem is. Fabio, I received your e-mail and will respond later this
evening or tomorrow morning.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Bill Linn <wlinn.linn@...>
wrote:
>
> Fabio, will a straight key work using the VOX? If so, it could be
> that the keyer doesn't key the higher voltage of the 830.. I had to
> build a keying relay to make mine work. (The keyer output keys the
> relay and the relay keys the 830) Then I bought a "Keyall" kit from
> Jackson Harbor Press. http://home.att.net/~jacksonharbor/keyall.htm
>
> Bill - W7WEL
>
> On Sun, Feb 8, 2009 at 4:23 AM, Fabio Scherrer <hb9fap@...> wrote:
> >
> > Hi Mike
> > First of all, let me resume the main problem, maybe I never
mentioned it
> > properly.
> > VOX is normally working in SSB, I mean, when I switch the vox
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> > delay) on the front panel of the ts 830s, it works correct.
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> > Refering to your previous email (where you suggested to measure D9 at TP2...
> > please apologize, but I just have read that email of you, after having
> > reassembled the TS830s, so I didn¢t check it until now... I will most probably
> > do it tomorrow and then let you know if the Diode D9 is working properly or
> > not. In any case, what seems to be for sure wrong, is that Voltage at TP2 while
> > Txing does not show 0.5 VDC, but zero.
> >
> > I don¢t
> > know if you have any additional suggestion before I will measure if D9 is OK or
> > not. In any case, once more MNI MNI TNX for your great help and congratulations
> > to be very precise on describing where to find what in the AF units, I really
> > appreciated it a lot! I am not experienced at all on opening a transceiver, so
> > you can imagine, I am very careful, because I don¢t want to create more problems
> > instead of solving what is not working at the moment...
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> > Mike,
> > Thanks so much for your great help, I wish you a nice weekend and hope to read
> > you soon. When I have additional information after after having measured D9 on
> > AF Unit, I will let you know.

> > Best 73¢s de Fabio, HB9FAP
> >
> >
> >
> > _____
> > From: W5RKL <w5rkl@...>
> > To: Fabio Scherrer <hb9fap@...>
> > Sent: Friday, February 6, 2009 3:31:50 PM
> > Subject: Re: [TS-520_820_530_830] Re: TS 830s: Problem with VOX
> >
> >
> > Hello Fabio,
> >
> > Since you said VOX is working in sideband mode but not CW, I
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to change from zero to .5VDC. If diode D5 is open, the voltage at TP2
will not change when the CW key is pressed, it will remain at zero.
Diode D5 is a 35VDC 300ma switching diode. Any 35VDC 300ma or higher
switching diode should work fine as a replacement.
> >
> > If diode D5 is open you will still hear the CW sidetone in the
speaker/headphones but the sidetone audio signal will not be rectified
by diode D5 in order to control transistor Q12 and the circuits after
transistor Q12.
> >
> > All of the above information is assuming diode D5 being open.
> >
> > 73
> > Mike
> > W5RKL
> >
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> > [Non-text portions of this message have been removed]
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20077. Re: [TS-520_820_530_830] How to allign the VFO knob.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 00:22:52 UTC
From: james eaton
Topic: 19717 Message: 20077

Actually it is only 1 and 1/2 tick marks off. The band switch is on 3.5 Mhz and the dial indicates 180.5 so it need to only move 1.5 tick marks. Hold the large knob so it does not move and move the knurled knob behind it counter-clockwise to align with the readout. A bit tricky, but I just recently re-aligned mine. What the responder was referring to would apply if you had taken the whole VFO apart. with the VFO hundreds dial at 0, the 5 should show in the window next to 90 in the units dial.

73

Jim
KE5KNH

--- On Mon, 1/19/09, Daniel TOESCA <ON5PY1967@...> wrote:

From: Daniel TOESCA <ON5PY1967@...>
Subject: Re: [TS-520_820_530_830] How to allign the VFO knob.
To: TS-520_820_530_830@yahoogroups.com
Date: Monday, January 19, 2009, 12:50 PM

Hi Mike,

This problem was reported some time ago - 2 or 3 months I guess.

The solution given by Dave is OK for the kHz dial in the lower window - it's
the way you have to calibrate the kHz dial reading per the user's manual,
but not for the 100 kHz dial in the upper window, and your picture show
clearly the problem.

Search the files with ' dial ' and you probably will find it.

As I remember, the procedure is covered by the TS-820 service manual you can
download for free at several places on the web.

It's a little bit tricky but not that difficult.

Good luck & 73's - Daniel, ON5PY

2009/1/18, mikefr24 <mikefr24@yahoo. com>:
>
> Hey guys,
>
> I have had a TS-820S for a long time and recently dusted it off and
> fired it up. I noticed that the VFO knob does not match what the
> digital display says. I guess its not a huge deal but I would like it
> to be right. Before I open the radio and mess with it myself I
> thought I would ask and see if there is a standard way to align the
> knob.
>

> See the following link for a picture of my problem.
>
> http://www.freemans garage.com/ images/ts820s. JPG
>
> Thanks,
> Mike
>
>
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

20078. Re: [TS-520_820_530_830] Re: TS820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 02:31:39 UTC
From: Adam Wade
Topic: 9983 Message: 20078

On Saturday, February 07, 2009 12:12 PM [Zulu -7],
bragucci <bragucci@...> wrote:

> Before the problem started it read 100w+ peak
> on SSB, now it reads maybe 55w peak, that tells me that something has
> changed.

Well, obviously. You turned off the processor. What you are seeing is
normal on a typical non-peak reading meter when you go from processor on to

processor off.

Clearly there's a problem with the low output with the processor on, but
what you are seeing with processor off and how it impacts your signal is
exactly what you should expect to see.

> if I seeing 100w+ peak on SSB, and now only see say 55w
> peak, that means something is wrong.

Absolutely incorrect. I suggest you look into what the processor does and
why one would be included on the radio. The behavior you are seeing is,
again, perfectly normal.

! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
! "I write down everything I want to remember. That way, instead !
! of spending a lot of time trying to remember what it is I wrote !
! down, I spend z time looking for the paper I wrote it down on." !
! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !

20079. Re: [TS-520_820_530_830] Re: TS 830s: Problem with VOX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 03:31:28 UTC
From: Adrian Ellison
Topic: 20002 Message: 20079

Hello again Fabio,

The side tone not working is the reason that the VOX isn't working on CW as Mike correctly states.

I've seen this before on a TS-830 and in that case it was caused by loss of the STB voltage, R13 (100k ohms) on the rectifier board was open circuit.

The STB voltage should be somewhere around 100 volts so you can easily check that, if it's around zero volts then check R13 on the rectifier board.

I remember this fault well, there was no obvious sign of stress on the resistor and no obvious cause of its failure, simply replacing the resistor did the trick.

Hope this helps Fabio,

73 de Adrian / ZS1TTZ

On Saturday 07 February 2009 22:23:01 Fabio Scherrer wrote:

> it understood...), so in other words, on RX when I am keing the CW, I don't
> hear any tone in the "background".

[Non-text portions of this message have been removed]

20080. Re: [TS-520_820_530_830] Re: TS 830s: Problem with VOX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 03:37:03 UTC
From: W5RKL
Topic: 20002 Message: 20080

Hi Fabio,

You said you do not hear the CW sidetone in CW mode when pressing the CW key. This is good information as it tells me the CW sidetone oscillator in your TS-830 is not working which is why your? TS-830 is not switching to transmit when you close the CW key in CW mode. This also tells me why the voltage at TP2 does not change from zero to .5VDC when the CW key is pressed. Now that we know what circuit is not working we can investigate further to find out why the circuit is not working.

I will get back with you tomorrow. I have some checking to do so until then, have a nice evening.

73
Mike
W5RKL

--- On Sat, 2/7/09, Fabio Scherrer <hb9fap@...> wrote:

From: Fabio Scherrer <hb9fap@...>
Subject: Re: [TS-520_820_530_830] Re: TS 830s: Problem with VOX
To: "W5RKL" <w5rkl@...>, TS-520_820_530_830@yahoogroups.com
Date: Saturday, February 7, 2009, 2:23 PM

Hi Mike

First of all, let me resume the main problem, maybe I never mentioned it properly.

VOX is normally working in SSB, I mean, when I switch the vox control (gain and delay) on the front panel of the ts 830s, it works correct.

When I want to transmit on CW, using the VOX with gain and delay from front panel, it does not switch into TX when I use the electronic paddle (Bencher-similar CW-Keyer). To transmit on CW I have to switch manually the switch in the front panel from REC to SEND. But, I don't hear the SIDETONE coming from the TS 830s (sorry, I didn't know until yesterday what is in english the "sidetone"... now I understood it, or at least I think to have it understood...), so in other words, on RX when I am keing the CW, I don't hear any tone in the "background".

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I have been checking the voltage at TP2 of the AF unit: in RX the voltage is zero, if I go on TX (= I switch from REC to SEND and I send a tone from the CW Keyer) TP2 remains at zero, so not going to 0.5 VDC on TP2. I have been checking Diode D5 on the AF unit, but it seems to be OK. I have measured the Diode D5 without desoldering it from the AF Unit and it does seem to work properly.

Refering to your previous email (where you suggested to measure D9 at TP2... please apologize, but I just have read that email of you, after having reassembled the TS830s, so I didn?t check it until now... I will most probably do it tomorrow and then let you know if the Diode D9 is working properly or not. In any case, what seems to be for sure wrong, is that Voltage at TP2 while Txing does not show 0.5 VDC, but zero.

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I don?t
know if you have any additional suggestion before I will measure if D9 is OK or not. In any case, once more MNI MNI TNX for your great help and congratulations to be very precise on describing where to find what in the AF units, I really appreciated it a lot! I am not experienced at all on opening a transceiver, so you can imagine, I am very careful, because I don?t want to create more problems instead of solving what is not working at the moment...

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Mike,
Thanks so much for your great help, I wish you a nice weekend and hope to read you soon. When I have additional information after after having measured D9 on AF Unit, I will let you know.

?

Best 73?s de Fabio, HB9FAP
From: W5RKL <w5rkl@...>
To: Fabio Scherrer <hb9fap@...>
Sent: Friday, February 6, 2009 3:31:50 PM
Subject: Re: [TS-520_820_530_830] Re: TS 830s: Problem with VOX

Hello Fabio,

Since you said VOX is working in sideband mode but not CW, I suggested checking the voltage at TP2 on the AF Unit. If diode D5 is good, pressing the CW key in CW mode should cause the voltage at TP2 to change from zero to .5VDC. If diode D5 is open, the voltage at TP2 will not change when the CW key is pressed, it will remain at zero. Diode D5 is a 35VDC 300ma switching diode. Any 35VDC 300ma or higher switching diode should work fine as a replacement.

If diode D5 is open you will still hear the CW sidetone in the speaker/headphones but the sidetone audio signal will not be rectified by diode D5 in order to control transistor Q12 and the
circuits after transistor Q12.

All of the above information is assuming diode D5 being open.

73
Mike
W5RKL

[Non-text portions of this message have been removed]

20081. Re: [TS-520_820_530_830] TS820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 05:28:03 UTC
From: Jeramy Ross
Topic: 9983 Message: 20081

Bart,

I apologize if this has already been suggested, but I've been behind on my email lately. At any rate, per Kenwood's service bulletins for the 820, for the symptom of having very low RF output only when using the RF speech processor, one should check a bad Q30 (2SC733) on IF (X48-1150-00).

Hope that helps,
Jeramy / W5XTL

On Sun, Feb 1, 2009 at 1:01 PM, bragucci <bragucci@...> wrote:

> My TS820 was functioning fine two days ago. Today I turned it on,
> tuned up on 40m and tried to transmit, only put out a few watts on
> LSB. I tried CW and got my normal 100w out. I tried to tune up again
> and was able to get 10-15w out, again CW was 100w out. I went over
> the mic/connector and all connections are good. Any ideas!
> Thx
> Bart
> KD8GTP
>
>
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

20082. RE: [TS-520_820_530_830] Re: TS 830s: Problem with VOX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 12:27:07 UTC
From: Linnette Louie
Topic: 20002 Message: 20082

Are you sure the electronic keyer is working properly? Did you try a manual key?

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of W5RKL
Sent: Saturday, February 07, 2009 10:37 PM
To: TS-520_820_530_830@yahoogroups.com; Fabio Scherrer
Subject: Re: [TS-520_820_530_830] Re: TS 830s: Problem with VOX

Hi Fabio,

You said you do not hear the CW sidetone in CW mode when pressing the CW key. This is good information as it tells me the CW sidetone oscillator in your TS-830 is not working which is why your TS-830 is not switching to transmit when you close the CW key in CW mode. This also tells me why the voltage at TP2 does not change from zero to .5VDC when the CW key is pressed. Now that we know what circuit is not working we can investigate further to find out why the circuit is not working.

I will get back with you tomorrow. I have some checking to do so until then, have a nice evening.

73
Mike
W5RKL

--- On Sat, 2/7/09, Fabio Scherrer <hb9fap@...> wrote:

From: Fabio Scherrer <hb9fap@...>
Subject: Re: [TS-520_820_530_830] Re: TS 830s: Problem with VOX
To: "W5RKL" <w5rkl@...>, TS-520_820_530_830@yahoogroups.com
Date: Saturday, February 7, 2009, 2:23 PM

Hi Mike

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When I want to transmit on CW, using the VOX with gain and delay from front panel, it does not switch into TX when I use the electronic paddle (Bencher-similar CW-Keyer). To transmit on CW I have to switch manually the switch in the front panel from REC to SEND. But, I don't hear the SIDETONE coming from the TS 830s (sorry, I didn't know until yesterday what is in

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Keyer) TP2 remains at zero, so not going to 0.5 VDC on TP2. I have been
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probably
do it tomorrow and then let you know if the Diode D9 is working properly or
not. In any case, what seems to be for sure wrong, is that Voltage at TP2
while
Txing does not show 0.5 VDC, but zero.

I don¢t
know if you have any additional suggestion before I will measure if D9 is OK
or
not. In any case, once more MNI MNI TNX for your great help and
congratulations
to be very precise on describing where to find what in the AF units, I
really
appreciated it a lot! I am not experienced at all on opening a transceiver,
so
you can imagine, I am very careful, because I don¢t want to create more
problems
instead of solving what is not working at the moment...

Mike,
Thanks so much for your great help, I wish you a nice weekend and hope to
read
you soon. When I have additional information after after having measured D9
on
AF Unit, I will let you know.

Best 73¢s de Fabio, HB9FAP
From: W5RKL <w5rkl@...>
To: Fabio Scherrer <hb9fap@...>
Sent: Friday, February 6, 2009 3:31:50 PM
Subject: Re: [TS-520_820_530_830] Re: TS 830s: Problem with VOX

Hello Fabio,

Since you said VOX is working in sideband mode but not CW, I suggested checking the voltage at TP2 on the AF Unit. If diode D5 is good, pressing the CW key in CW mode should cause the voltage at TP2 to change from zero to .5VDC. If diode D5 is open, the voltage at TP2 will not change when the CW key is pressed, it will remain at zero. Diode D5 is a 35VDC 300ma switching diode. Any 35VDC 300ma or higher switching diode should work fine as a replacement.

If diode D5 is open you will still hear the CW sidetone in the speaker/headphones but the sidetone audio signal will not be rectified by diode D5 in order to control transistor Q12 and the circuits after transistor Q12.

All of the above information is assuming diode D5 being open.

73
Mike
W5RKL

[Non-text portions of this message have been removed]

Yahoo! Groups Links

20083. Re: TS 830s: Problem with VOX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 13:17:55 UTC
From: w5rkl
Topic: 20002 Message: 20083

Hello Fabio and Adrian,

I agree with Adrian, resistor R13 (100K) can easily prevent the sidetone from operating. Good job Adrian.

Be very careful when measuring voltages in the TS-830 with the power cable plugged into the wall. The Rectifier Unit PC board has very high voltages which can KILL YOU!! BE SAFE!!! Take your time, do not be in a hurry.

Unplug the TS-830 from the wall outlet, remove the covers, turn the TS-830 so the bottom is facing up and the front panel is facing you.

Locate the Rectifier Unit PC board which is to the "left" of the power transformer. Looking down at the Rectifier Unit PC board the "STB" pin is just forward of the relay and slightly to the left. Resistor R13 is mounted just forward of the relay.

Plug the TS-830 power cable into the wall outlet and turn the 830 on. Measure the voltage on the "STB" pin. If R13 is open or bad there will be very little or zero volts on the "STB" pin.

Again, be very careful measuring voltages on the Rectifier Unit PC board. There is high AC and DC voltages on this board!! BE SAFE!!.

Again, Adrian, good job!!

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Adrian Ellison <ellisona@...> wrote:
>
> Hello again Fabio,
>
> The side tone not working is the reason that the VOX isn't working on CW as Mike correctly states.
>
> I've seen this before on a TS-830 and in that case it was caused by loss of the STB voltage, R13 (100k ohms) on the rectifier board was open circuit.
>
> The STB voltage should be somewhere around 100 volts so you can easily check that, if it's around zero volts then check R13 on the rectifier board.
>

> I remember this fault well, there was no obvious sign of stress on
the resistor and no obvious cause of its failure, simply replacing the
resistor did the trick.
>
> Hope this helps Fabio,
>
> 73 de Adrian / ZS1TTZ
>
> On Saturday 07 February 2009 22:23:01 Fabio Scherrer wrote:
>
> > it understood...), so in other words, on RX when I am keing the
CW, I don't
> > hear any tone in the "background".
>
> [Non-text portions of this message have been removed]
>

20084. Re: TS-520 - 40Mtr Driver slug AND Astatic MIC

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 13:33:52 UTC
From: vu2jmx
Topic: 20061 Message: 20084

QSL and T U Dan and Gordon.

Dan:
The slug is not loose enough to fall out from either direction. It just keeps rotating in the same place. I'm planning to make a stiff 'U' out of some non-metal and see if I can push it out from the other end while I rotate it.

Gordon:
The slug is almost in the center I suppose. By the looks of it the slug seems to be from the same lot.

On a different note, Getting (just) the MC-50 mic proved to be more difficult than I imagined. I therefore picked up a YD-148 (50K and 600E) mic in yesterday's hamfest. It had a 6 pin plug (??) but I changed it over to the 4-pin TS-520 style. Will test it later today.

Oh yes, I also picked up an Astatic D104-M6. Will check that out too once the rig is up.

73,
de Aron VU2JMX.

--- On Sat, 2/7/09, Don Thomas <satranger1@...> wrote:

> From: Don Thomas <satranger1@...>
> Subject: Re: [TS-520_820_530_830] TS-520 - 40Mtr Driver slug
> To: TS-520_820_530_830@yahoogroups.com
> Received: Saturday, February 7, 2009, 8:17 AM
> If its really loose, maybe try tilting the radio upside down
> while trying to lightly turn the slug to see if you can work
> it out.
>
> Don T.

--- On Sat, 2/7/09, Gordon JC Pearce MM3YEQ <gordon@...> wrote:

> From: Gordon JC Pearce MM3YEQ <gordon@...>
> Subject: Re: [TS-520_820_530_830] TS-520 - 40Mtr Driver slug
> To: TS-520_820_530_830@yahoogroups.com
> Received: Saturday, February 7, 2009, 6:34 AM
> On Sat, 2009-02-07 at 10:11 +0000, vu2jmx wrote:
> > Hello everyone,
> >
> > My 40 Mtr driver slug rotates freely without moving up
> or down.
> > Slug is not broken or cracked and I don't see any
> room on the other
> > side to push it back (out). I got this rig in this

> condition. I've
> > followed all the guidelines available here on this
> forum and elsewhere -
> > verbatim. I use the right tools for tuning.
>
> Is it right at the bottom? Perhaps that is the wrong slug
> that's been
> dropped into the hole and is just spinning inside the
> threads?
>
> Gordon
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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_____
Yahoo! Canada Toolbar: Search from anywhere on the web, and bookmark your favourite sites.
Download it now at
http://ca.toolbar.yahoo.com.

20085. Re: TS820 Bert KD8GTP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 14:07:12 UTC
From: Rich Jones
Topic: 20085 Message: 20085

Bert: Your in luck. Jefff WA8SAJ is just outside Cleveland and works on old rigs like yours. Jeff did an alliginment on my TS-530-S several years ago and it still works like new. When you pick your rig up, Jeff will have it on a scope and show you the best mic. gain setting (I bet it is between 9-10) for your rig and I promise you will be very impressed with the outcome. Jeff is first in first out so it will depend on his work load on how fast you will get the rig back. Do your self a favor and hand deliver it so you can view his set up. Check him out on QRZ for email, contact info, etc. Good luck, Rich K8UV

[Non-text portions of this message have been removed]

20086. RE: [TS-520_820_530_830] Re: TS 830s: Problem with VOX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 15:07:42 UTC
From: Dave wej
Topic: 20002 Message: 20086

Has anybody mentioned that the sidetone gain control may just be turned down too far..

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
Sent: February 8, 2009 8:18 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS 830s: Problem with VOX

Hello Fabio and Adrian,

I agree with Adrian, resistor R13 (100K) can easily prevent the sidetone from operating. Good job Adrian.

Be very careful when measuring voltages in the TS-830 with the power cable plugged into the wall. The Rectifier Unit PC board has very high voltages which can KILL YOU!! BE SAFE!!! Take your time, do not be in a hurry.

Unplug the TS-830 from the wall outlet, remove the covers, turn the TS-830 so the bottom is facing up and the front panel is facing you.

Locate the Rectifier Unit PC board which is to the "left" of the power transformer. Looking down at the Rectifier Unit PC board the "STB" pin is just forward of the relay and slightly to the left. Resistor R13 is mounted just forward of the relay.

Plug the TS-830 power cable into the wall outlet and turn the 830 on. Measure the voltage on the "STB" pin. If R13 is open or bad there will be very little or zero volts on the "STB" pin.

Again, be very careful measuring voltages on the Rectifier Unit PC board. There is high AC and DC voltages on this board!! BE SAFE!!.

Again, Adrian, good job!!

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com> , Adrian Ellison
<ellisona@...> wrote:
>
> Hello again Fabio,
>
> The side tone not working is the reason that the VOX isn't working on CW as Mike correctly states.

>
> I've seen this before on a TS-830 and in that case it was caused by
loss of the STB voltage, R13 (100k ohms) on the rectifier board was
open circuit.
>
> The STB voltage should be somewhere around 100 volts so you can
easily check that, if it's around zero volts then check R13 on the
rectifier board.
>
> I remember this fault well, there was no obvious sign of stress on
the resistor and no obvious cause of its failure, simply replacing the
resistor did the trick.
>
> Hope this helps Fabio,
>
> 73 de Adrian / ZS1TTZ
>
> On Saturday 07 February 2009 22:23:01 Fabio Scherrer wrote:
>
> > it understood...), so in other words, on RX when I am keing the
CW, I don't
> > hear any tone in the "background".
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

20087. AT-200 and AT-180 Antenna Tuners

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 15:15:21 UTC
From: vu2jmx
Topic: 20087 Message: 20087

Could someone please tell me the difference between an AT-200 and an AT-180 antenna tuners ??
Well, I do know for sure the AT-200 was for TS-520/820 series and AT-180 was for TS-180 series. After going through the schematics/manual of both, except for the different model numbers and a slight cosmetic change on the front panel (+ top/bottom covers are switched), I could not discern anything else.

Oh yes, the AT-200 is quite popular whereas the AT-180 is hard to come by.

Thanks & 73,
de Aron VU2JMX.

20088. Re: AT-200 and AT-180 Antenna Tuners

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 15:36:30 UTC
From: plungerdp
Topic: 20087 Message: 20088

--- The difference between the AT-180 and the AT-200 is the AT-200 has warc bans on the switch. I use an At-180 as a 10m tuned input for the SB-200.

Harry, k6aom

"I hope that this gets posted"!

--- In TS-520_820_530_830@yahoogroups.com, "vu2jmx" <vu2jmx@...> wrote:
>
> Could someone please tell me the difference between an AT-200 and an AT-
> 180 antenna tuners ??
> Well, I do know for sure the AT-200 was for TS-520/820 series and AT-
> 180 was for TS-180 series. After going through the schematics/manual of
> both, except for the different model numbers and a slight cosmetic
> change on the front panel (+ top/bottom covers are switched), I could
> not discern anything else.
>
> Oh yes, the AT-200 is quite popular whereas the AT-180 is hard to come
> by.
>
> Thanks & 73,
> de Aron VU2JMX.
>

20089. Re: TS 830s: Problem with VOX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 16:09:53 UTC
From: w5rkl
Topic: 20002 Message: 20089

Dave,

VR1, sidetone volume control on the AF Unit, has no affect on the level of sidetone audio fed to diode D9 and ultimately to Q12. VR1 controls the level of sidetone audio fed to the receiver's audio amplifier Q4 and set the level of sidetone heard in the speaker and/or headphones, not the CW break-in circuit.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Dave wej" <ve3wej@...> wrote:
>
> Has anybody mentioned that the sidetone gain control may just be turned down
> too far..
>
>
>
>
>
>
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
> Sent: February 8, 2009 8:18 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: TS 830s: Problem with VOX
>
>
>
> Hello Fabio and Adrian,
>
> I agree with Adrian, resistor R13 (100K) can easily prevent the
> sidetone from operating. Good job Adrian.
>
> Be very careful when measuring voltages in the TS-830 with the power
> cable plugged into the wall. The Rectifier Unit PC board has very high
> voltages which can KILL YOU!! BE SAFE!!! Take your time, do not be in
> a hurry.
>
> Unplug the TS-830 from the wall outlet, remove the covers, turn the
> TS-830 so the bottom is facing up and the front panel is facing you.
>
> Locate the Rectifier Unit PC board which is to the "left" of the power

> transformer. Looking down at the Rectifier Unit PC board the "STB" pin
> is just forward of the relay and slightly to the left. Resistor R13 is
> mounted just forward of the relay.
>
> Plug the TS-830 power cable into the wall outlet and turn the 830 on.
> Measure the voltage on the "STB" pin. If R13 is open or bad there will
> be very little or zero volts on the "STB" pin.
>
> Again, be very careful measuring voltages on the Rectifier Unit PC
> board. There is high AC and DC voltages on this board!! BE SAFE!!.
>
> Again, Adrian, good job!!
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com> , Adrian Ellison
> <ellisona@> wrote:
> >
> > Hello again Fabio,
> >
> > The side tone not working is the reason that the VOX isn't working
> on CW as Mike correctly states.
> >
> > I've seen this before on a TS-830 and in that case it was caused by
> loss of the STB voltage, R13 (100k ohms) on the rectifier board was
> open circuit.
> >
> > The STB voltage should be somewhere around 100 volts so you can
> easily check that, if it's around zero volts then check R13 on the
> rectifier board.
> >
> > I remember this fault well, there was no obvious sign of stress on
> the resistor and no obvious cause of its failure, simply replacing the
> resistor did the trick.
> >
> > Hope this helps Fabio,
> >
> > 73 de Adrian / ZS1TTZ
> >
> > On Saturday 07 February 2009 22:23:01 Fabio Scherrer wrote:
> >
> > > it understood...), so in other words, on RX when I am keing the
> CW, I don't
> > > hear any tone in the "background".
> >
> > [Non-text portions of this message have been removed]
> >

>
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>
>
>
> [Non-text portions of this message have been removed]
>

20090. Re: TS-520 - 40Mtr Driver slug

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 09:49:46 UTC
From: Greg Schindler
Topic: 20061 Message: 20090

This might be a dumb idea, but how about trying a SMALL drop of crazy glue to your tuning tool and and GENTLY pulling the slug outwards while at the same time turning the slug CCW to either remove it or get it to re-engage the threads? Be careful to avoid letting the glue touch the inside of the form though.

good luck,
Greg
KD6HGF

20091. Re: [TS-520_820_530_830] Re: TS 830s: Problem with VOX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 16:00:26 UTC
From: Fabio Scherrer
Topic: 20002 Message: 20091

Hi there
Many thanks for your suggestion. Yes, I checked the electronic keyer and it does work properly. I tried also with straight key, but no way to let the VOX work. Thanks for help. It seems to be a bit more complicated unfortunately.
best 73s de Fabio, HB9FAP

From: Linnette Louie <y4562@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, February 8, 2009 1:27:07 PM
Subject: RE: [TS-520_820_530_830] Re: TS 830s: Problem with VOX

Are you sure the electronic keyer is working properly? Did you try a manual key?

-----Original Message-----
From: TS-520_820_530_ 830@yahoogroups. com
[mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of W5RKL
Sent: Saturday, February 07, 2009 10:37 PM
To: TS-520_820_530_ 830@yahoogroups. com; Fabio Scherrer
Subject: Re: [TS-520_820_ 530_830] Re: TS 830s: Problem with VOX

Hi Fabio,

You said you do not hear the CW sidetone in CW mode when pressing the CW key. This is good information as it tells me the CW sidetone oscillator in your TS-830 is not working which is why your TS-830 is not switching to transmit when you close the CW key in CW mode. This also tells me why the voltage at TP2 does not change from zero to .5VDC when the CW key is pressed. Now that we know what circuit is not working we can investigate further to find out why the circuit is not working.

I will get back with you tomorrow. I have some checking to do so until then, have a nice evening.

73
Mike
W5RKL

--- On Sat, 2/7/09, Fabio Scherrer <hb9fap@yahoo. com> wrote:

From: Fabio Scherrer <hb9fap@yahoo. com>
Subject: Re: [TS-520_820_ 530_830] Re: TS 830s: Problem with VOX
To: "W5RKL" <w5rkl@yahoo. com>, TS-520_820_530_ 830@yahoogroups. com
Date: Saturday, February 7, 2009, 2:23 PM

Hi Mike

First of all, let me resume the main problem, maybe I never mentioned it properly.

VOX is normally working in SSB, I mean, when I switch the vox control (gain and
delay) on the front panel of the ts 830s, it works correct.

When I want to transmit on CW, using the VOX with gain and delay from front panel, it does not switch into TX when I use the electronic paddle (Bencher-similar CW-Keyer). To transmit on CW I have to switch manually the switch in the front panel from REC to SEND. But, I don't hear the SIDETONE coming from the TS 830s (sorry, I didn't know until yesterday what is in english the
"sidetone".. . now I understood it, or at least I think to have it understood.. .), so in other words, on RX when I am keing the CW, I don't hear any tone in the "background" .

I did what you suggested here below in your email and the reults are the following:

I have been checking the voltage at TP2 of the AF unit: in RX the voltage is zero, if I go on TX (= I switch from REC to SEND and I send a tone from the CW
Keyer) TP2 remains at zero, so not going to 0.5 VDC on TP2. I have been checking
Diode D5 on the AF unit, but it seems to be OK. I have measured the Diode D5 without desoldering it from the AF Unit and it does seem to work properly.

Refering to your previous email (where you suggested to measure D9 at TP2... please apologize, but I just have read that email of you, after having reassembled the TS830s, so I didn¢t check it until now... I will most probably
do it tomorrow and then let you know if the Diode D9 is working properly or not. In any case, what seems to be for sure wrong, is that Voltage at TP2 while
Txing does not show 0.5 VDC, but zero.

I don¢t
know if you have any additional suggestion before I will measure if D9 is OK or
not. In any case, once more MNI MNI TNX for your great help and congratulations
to be very precise on describing where to find what in the AF units, I really
appreciated it a lot! I am not experienced at all on opening a transceiver, so
you can imagine, I am very careful, because I don¢t want to create more problems
instead of solving what is not working at the moment...

Mike,
Thanks so much for your great help, I wish you a nice weekend and hope to read

you soon. When I have additional information after after having measured D9 on
AF Unit, I will let you know.

Best 73¢s de Fabio, HB9FAP
From: W5RKL <w5rkl@yahoo.. com>
To: Fabio Scherrer <hb9fap@yahoo. com>
Sent: Friday, February 6, 2009 3:31:50 PM
Subject: Re: [TS-520_820_ 530_830] Re: TS 830s: Problem with VOX

Hello Fabio,

Since you said VOX is working in sideband mode but not CW, I suggested checking the voltage at TP2 on the AF Unit. If diode D5 is good, pressing the CW key in CW mode should cause the voltage at TP2 to change from zero to .5VDC. If diode D5 is open, the voltage at TP2 will not change when the CW key is pressed, it will remain at zero.. Diode D5 is a 35VDC 300ma switching diode. Any 35VDC 300ma or higher switching diode should work fine as a replacement.

If diode D5 is open you will still hear the CW sidetone in the speaker/headphones but the sidetone audio signal will not be rectified by diode D5 in order to control transistor Q12 and the
circuits after transistor Q12.

All of the above information is assuming diode D5 being open.

73
Mike
W5RKL

[Non-text portions of this message have been removed]

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Yahoo! Groups Links

[Non-text portions of this message have been removed]

20092. Re: [TS-520_820_530_830] Re: TS 830s: Problem with VOX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 16:02:14 UTC
From: Fabio Scherrer
Topic: 20002 Message: 20092

Hi Bill
Thanks for your suggestion. I thought at the begining that it could be the problem, but unfortunately not.
However good to know about the "keyall".
Have a nice sunday!
vy 73's de Fabio, HB9FAP

From: Bill Linn <wlinn.linn@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, February 7, 2009 11:08:38 PM
Subject: Re: [TS-520_820_530_830] Re: TS 830s: Problem with VOX

Fabio, will a straight key work using the VOX? If so, it could be
that the keyer doesn't key the higher voltage of the 830.. I had to
build a keying relay to make mine work. (The keyer output keys the
relay and the relay keys the 830) Then I bought a "Keyall" kit from
Jackson Harbor Press. http://home. att.net/~ jacksonharbor/ keyall.htm

Bill - W7WEL

On Sun, Feb 8, 2009 at 4:23 AM, Fabio Scherrer <hb9fap@yahoo. com> wrote:
>
> Hi Mike
> First of all, let me resume the main problem, maybe I never mentioned it
> properly.
> VOX is normally working in SSB, I mean, when I switch the vox control (gain and
> delay) on the front panel of the ts 830s, it works correct.
> When I want to transmit on CW, using the VOX with gain and delay from front
> panel, it does not switch into TX when I use the electronic paddle
> (Bencher-similar CW-Keyer). To transmit on CW I have to switch manually the
> switch in the front panel from REC to SEND. But, I don't hear the SIDETONE
> coming from the TS 830s (sorry, I didn't know until yesterday what is in english the
> "sidetone".. . now I understood it, or at least I think to have it understood.. .), so in other words, on RX when I am keing the CW, I don't hear any tone in the "background" .
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> following:
> I have been checking the voltage at TP2 of the AF unit: in RX the voltage is
> zero, if I go on TX (= I switch from REC to SEND and I send a tone from the CW
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> Diode D5 on the AF unit, but it seems to be OK. I have measured the Diode D5
> without desoldering it from the AF Unit and it does seem to work properly.
> Refering to your previous email (where you suggested to measure D9 at TP2...
> please apologize, but I just have read that email of you, after having
> reassembled the TS830s, so I didn¢t check it until now... I will most probably
> do it tomorrow and then let you know if the Diode D9 is working properly or

> not. In any case, what seems to be for sure wrong, is that Voltage at TP2 while
> Txing does not show 0.5 VDC, but zero.
>
> I don¢t
> know if you have any additional suggestion before I will measure if D9 is OK or
> not. In any case, once more MNI MNI TNX for your great help and congratulations
> to be very precise on describing where to find what in the AF units, I really
> appreciated it a lot! I am not experienced at all on opening a transceiver, so
> you can imagine, I am very careful, because I don¢t want to create more problems
> instead of solving what is not working at the moment...
>
> Mike,
> Thanks so much for your great help, I wish you a nice weekend and hope to read
> you soon. When I have additional information after after having measured D9 on
> AF Unit, I will let you know.
> Best 73¢s de Fabio, HB9FAP
>
>
>
> __________ _________ _________ __
> From: W5RKL <w5rkl@yahoo. com>
> To: Fabio Scherrer <hb9fap@yahoo. com>
> Sent: Friday, February 6, 2009 3:31:50 PM
> Subject: Re: [TS-520_820_ 530_830] Re: TS 830s: Problem with VOX
>
>
> Hello Fabio,
>
> Since you said VOX is working in sideband mode but not CW, I suggested checking the voltage at TP2 on the AF Unit. If diode D5 is good, pressing the CW key in CW mode should cause the voltage at TP2 to change from zero to .5VDC. If diode D5 is open, the voltage at TP2 will not change when the CW key is pressed, it will remain at zero. Diode D5 is a 35VDC 300ma switching diode. Any 35VDC 300ma or higher switching diode should work fine as a replacement.
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>
> All of the above information is assuming diode D5 being open.
>
> 73
> Mike
> W5RKL
>
>
>
>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

20093. Re: [TS-520_820_530_830] Re: TS 830s: Problem with VOX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 16:04:47 UTC
From: Fabio Scherrer
Topic: 20002 Message: 20093

Hi Dave
Thanks for your suggestion. I tried to adjust the sidetone, but nothing happens.
I am very happy about all the suggestions I receive to try to solve the problem. I just subscribed to this Forum since a short time, and I realize that it works simply great! A lot of suggestions from many people, that is really wunderful! I hope I can one day also try to help someone having a problem.
vy 73s de Fabio, HB9FAP

From: Dave wej <ve3wej@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, February 8, 2009 4:07:42 PM
Subject: RE: [TS-520_820_530_830] Re: TS 830s: Problem with VOX

Has anybody mentioned that the sidetone gain control may just be turned down too far..

From: TS-520_820_530_ 830@yahoogroups. com
[mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of w5rkl
Sent: February 8, 2009 8:18 AM
To: TS-520_820_530_ 830@yahoogroups. com
Subject: [TS-520_820_ 530_830] Re: TS 830s: Problem with VOX

Hello Fabio and Adrian,

I agree with Adrian, resistor R13 (100K) can easily prevent the sidetone from operating. Good job Adrian.

Be very careful when measuring voltages in the TS-830 with the power cable plugged into the wall. The Rectifier Unit PC board has very high voltages which can KILL YOU!! BE SAFE!!! Take your time, do not be in a hurry.

Unplug the TS-830 from the wall outlet, remove the covers, turn the TS-830 so the bottom is facing up and the front panel is facing you.

Locate the Rectifier Unit PC board which is to the "left" of the power transformer. Looking down at the Rectifier Unit PC board the "STB" pin is just forward of the relay and slightly to the left. Resistor R13 is mounted just forward of the relay.

Plug the TS-830 power cable into the wall outlet and turn the 830 on. Measure the voltage on the "STB" pin. If R13 is open or bad there will be very little or zero volts on the "STB" pin.

Again, be very careful measuring voltages on the Rectifier Unit PC board. There is high AC and DC voltages on this board!! BE SAFE!!.

Again, Adrian, good job!!

73
Mike
W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com
<mailto:TS-520_ 820_530_830% 40yahoogroups. com> , Adrian Ellison
<ellisona@.. .> wrote:
>
> Hello again Fabio,
>
> The side tone not working is the reason that the VOX isn't working
on CW as Mike correctly states.
>
> I've seen this before on a TS-830 and in that case it was caused by
loss of the STB voltage, R13 (100k ohms) on the rectifier board was
open circuit.
>
> The STB voltage should be somewhere around 100 volts so you can
easily check that, if it's around zero volts then check R13 on the
rectifier board.
>
> I remember this fault well, there was no obvious sign of stress on
the resistor and no obvious cause of its failure, simply replacing the
resistor did the trick.
>
> Hope this helps Fabio,
>
> 73 de Adrian / ZS1TTZ
>
> On Saturday 07 February 2009 22:23:01 Fabio Scherrer wrote:
>
> > it understood.. .), so in other words, on RX when I am keing the
CW, I don't
> > hear any tone in the "background" .
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

20094. Re: [TS-520_820_530_830] Re: TS-520 - 40Mtr Driver slug

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 16:31:42 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20061 Message: 20094

On Sun, 2009-02-08 at 01:49 -0800, Greg Schindler wrote:
> This might be a dumb idea, but how about trying a SMALL drop of crazy
> glue to your tuning tool and and GENTLY pulling the slug outwards while
> at the same time turning the slug CCW to either remove it or get it to
> re-engage the threads? Be careful to avoid letting the glue touch the
> inside of the form though.
>
> good luck,
> Greg
> KD6HGF

I did think of this, having used this technique in the past to remove cracked or stripped cores, but it is risky - you can glue the core into the former. In view of this, I didn't want to mention it in case it started another "zomg noob" storm ;-)

Gordon

20095. Re: [TS-520_820_530_830] Re: TS-520 - 40Mtr Driver slug

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 16:34:57 UTC
From: vu2jmx
Topic: 20061 Message: 20095

No Greg. It's not dumb.
I'll try it out. But before that I'll figure out how to separate the plastic tuning tool from the core AFTER pulling it out...

Aron.

--- On Sun, 2/8/09, Greg Schindler <gschndlr@...> wrote:

> From: Greg Schindler <gschndlr@...>
> Subject: [TS-520_820_530_830] Re: TS-520 - 40Mtr Driver slug
> To: TS-520_820_530_830@yahoogroups.com
> Received: Sunday, February 8, 2009, 4:49 AM
> This might be a dumb idea, but how about trying a SMALL drop
> of crazy
> glue to your tuning tool and and GENTLY pulling the slug
> outwards while
> at the same time turning the slug CCW to either remove it
> or get it to
> re-engage the threads? Be careful to avoid letting the
> glue touch the
> inside of the form though.
>
> good luck,
> Greg
> KD6HGF
>
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20096. Re: [TS-520_820_530_830] Re: TS-520 - 40Mtr Driver slug

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 16:38:53 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20061 Message: 20096

On Sun, 2009-02-08 at 08:34 -0800, vu2jmx wrote:
> No Greg. It's not dumb.
> I'll try it out. But before that I'll figure out how to separate the
> plastic tuning tool from the core AFTER pulling it out...

Use a bit of scrap plastic rod or something. Chances are the core is ruined or the wrong one, so you're going to be throwing it away in any case.

Gordon

20097. Re: AT-200 and AT-180 Antenna Tuners

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 16:40:19 UTC
From: vu2jmx
Topic: 20087 Message: 20097

Geez ! I missed THAT.

Thanks Harry.

73
de Aron VU2JMX.

--- On Sun, 2/8/09, plungerdp <k6aom@...> wrote:

> From: plungerdp <k6aom@...>
> Subject: [TS-520_820_530_830] Re: AT-200 and AT-180 Antenna Tuners
> To: TS-520_820_530_830@yahoogroups.com
> Received: Sunday, February 8, 2009, 10:36 AM
> --- The difference between the AT-180 and the AT-200 is the
> AT-200 has
> warc bans on the switch. I use an At-180 as a 10m tuned
> input for the
> SB-200.
>
> Harry, k6aom
>
> "I hope that this gets posted"!
>
> --- In TS-520_820_530_830@yahoogroups.com,
> "vu2jmx" <vu2jmx@...> wrote:
> >
> > Could someone please tell me the difference between an
> AT-200 and an AT-
> > 180 antenna tuners ??
> > Well, I do know for sure the AT-200 was for TS-520/820
> series and AT-
> > 180 was for TS-180 series. After going through the
> schematics/manual of
> > both, except for the different model numbers and a
> slight cosmetic
> > change on the front panel (+ top/bottom covers are
> switched), I could
> > not discern anything else.
> >
> > Oh yes, the AT-200 is quite popular whereas the AT-180
> is hard to come
> > by.
> >
> > Thanks & 73,
> > de Aron VU2JMX.
> >

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20098. Re: [TS-520_820_530_830] Re: AT-200 and AT-180 Antenna Tuners

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 16:47:35 UTC
From: David Rogers
Topic: 20087 Message: 20098

The AT-200 does not have the WARC bands on the switch -- at least, the one I have doesn't have them. The AT-230 added the WARC bands.

David, WA7ZYQ

----- Original Message -----
From: plungerdp
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, February 08, 2009 7:36 AM
Subject: [TS-520_820_530_830] Re: AT-200 and AT-180 Antenna Tuners

--- The difference between the AT-180 and the AT-200 is the AT-200 has warc bans on the switch. I use an At-180 as a 10m tuned input for the SB-200.

Harry, k6aom

"I hope that this gets posted"!

--- In TS-520_820_530_830@yahoogroups.com, "vu2jmx" <vu2jmx@...> wrote:
>
> Could someone please tell me the difference between an AT-200 and an AT-
> 180 antenna tuners ??
> Well, I do know for sure the AT-200 was for TS-520/820 series and AT-
> 180 was for TS-180 series. After going through the schematics/manual of
> both, except for the different model numbers and a slight cosmetic
> change on the front panel (+ top/bottom covers are switched), I could
> not discern anything else.
>
> Oh yes, the AT-200 is quite popular whereas the AT-180 is hard to come
> by.
>
> Thanks & 73,
> de Aron VU2JMX.
>

[Non-text portions of this message have been removed]

20099. RE: [TS-520_820_530_830] Re: TS 830s: Problem with VOX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 16:54:24 UTC
From: Dave wej
Topic: 20002 Message: 20099

He was mentioning he was hearing no sidetone, don't remember him saying the radio was not transmitting still. Maybe I missed that

Dave,

VR1, sidetone volume control on the AF Unit, has no affect on the level of sidetone audio fed to diode D9 and ultimately to Q12. VR1 controls the level of sidetone audio fed to the receiver's audio amplifier Q4 and set the level of sidetone heard in the speaker and/or headphones, not the CW break-in circuit.

73
Mike
W5RKL

[Non-text portions of this message have been removed]

20100. Re: TS 830s: Problem with VOX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 17:05:37 UTC
From: w5rkl
Topic: 20002 Message: 20100

No problem Dave, any suggestion/comment is always welcomed.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Dave wej" <ve3wej@...> wrote:
>
> He was mentioning he was hearing no sidetone, don't remember him
saying the
> radio was not transmitting still. Maybe I missed that
>
>
>
> Dave,
>
> VR1, sidetone volume control on the AF Unit, has no affect on the
> level of sidetone audio fed to diode D9 and ultimately to Q12. VR1
> controls the level of sidetone audio fed to the receiver's audio
> amplifier Q4 and set the level of sidetone heard in the speaker and/or
> headphones, not the CW break-in circuit.
>
> 73
> Mike
> W5RKL
>
>
>
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>
> [Non-text portions of this message have been removed]
>

20101. Re: AT-200 and AT-180 Antenna Tuners

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 17:40:53 UTC
From: vu2jmx
Topic: 20087 Message: 20101

David,

I thought so too. The manual doesn't show it at least.
Then.... what IS the difference between AT-180 and At-200... Puhleeeze..

Thanks.

--- On Sun, 2/8/09, David Rogers <wa7zyq@...> wrote:

> From: David Rogers <wa7zyq@...>
> Subject: Re: [TS-520_820_530_830] Re: AT-200 and AT-180 Antenna Tuners
> To: TS-520_820_530_830@yahoogroups.com
> Received: Sunday, February 8, 2009, 11:47 AM
> The AT-200 does not have the WARC bands on the switch -- at
> least, the one I have doesn't have them. The AT-230
> added the WARC bands.
>
> David, WA7ZYQ
>
> ----- Original Message -----
> From: plungerdp
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, February 08, 2009 7:36 AM
> Subject: [TS-520_820_530_830] Re: AT-200 and AT-180
> Antenna Tuners
>
>
> --- The difference between the AT-180 and the AT-200 is
> the AT-200 has
> warc bans on the switch. I use an At-180 as a 10m tuned
> input for the
> SB-200.
>
> Harry, k6aom
>
> "I hope that this gets posted"!
>
> --- In TS-520_820_530_830@yahoogroups.com,
> "vu2jmx" <vu2jmx@...> wrote:
> >
> > Could someone please tell me the difference between
> an AT-200 and an AT-
> > 180 antenna tuners ??
> > Well, I do know for sure the AT-200 was for
> TS-520/820 series and AT-
> > 180 was for TS-180 series. After going through the

> schematics/manual of
> > both, except for the different model numbers and a
> slight cosmetic
> > change on the front panel (+ top/bottom covers are
> switched), I could
> > not discern anything else.
> >
> > Oh yes, the AT-200 is quite popular whereas the
> AT-180 is hard to come
> > by.
> >
> > Thanks & 73,
> > de Aron VU2JMX.
> >
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> [Non-text portions of this message have been removed]
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20102. Re: [TS-520_820_530_830] Re: AT-200 and AT-180 Antenna Tuners

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 17:56:59 UTC
From: David Rogers
Topic: 20087 Message: 20102

As best as I can tell -- cosmetic. The AT-200 has the chrome "ring" around it to match the '520, and the print on the face is a little different, though the functions all appear to be the same. I have the AT-200 so know that it doesn't have the WARC bands, but do not have an AT-180 and so am guessing from photos.

There may or may not be internal differences, though I believe they came out about the same time and would be willing to bet they are pretty much the same. OTOH, that wouldn't be the first bet I ever lost. Hi!

David, WA7ZYQ

----- Original Message -----
From: vu2jmx
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, February 08, 2009 9:40 AM
Subject: [TS-520_820_530_830] Re: AT-200 and AT-180 Antenna Tuners

David,

I thought so too. The manual doesn't show it at least.
Then.... what IS the difference between AT-180 and At-200... Puhleeeze..

Thanks.

--- On Sun, 2/8/09, David Rogers <wa7zyq@...> wrote:

> From: David Rogers <wa7zyq@...>
> Subject: Re: [TS-520_820_530_830] Re: AT-200 and AT-180 Antenna Tuners
> To: TS-520_820_530_830@yahoogroups.com
> Received: Sunday, February 8, 2009, 11:47 AM
> The AT-200 does not have the WARC bands on the switch -- at
> least, the one I have doesn't have them. The AT-230
> added the WARC bands.
>
> David, WA7ZYQ
>
> ----- Original Message -----
> From: plungerdp
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, February 08, 2009 7:36 AM
> Subject: [TS-520_820_530_830] Re: AT-200 and AT-180
> Antenna Tuners
>
>
> --- The difference between the AT-180 and the AT-200 is
> the AT-200 has
> warc bans on the switch. I use an At-180 as a 10m tuned

> input for the
> SB-200.
>
> Harry, k6aom
>
> "I hope that this gets posted"!
>
> --- In TS-520_820_530_830@yahoogroups.com,
> "vu2jmx" <vu2jmx@...> wrote:
> >
> > Could someone please tell me the difference between
> an AT-200 and an AT-
> > 180 antenna tuners ??
> > Well, I do know for sure the AT-200 was for
> TS-520/820 series and AT-
> > 180 was for TS-180 series. After going through the
> schematics/manual of
> > both, except for the different model numbers and a
> slight cosmetic
> > change on the front panel (+ top/bottom covers are
> switched), I could
> > not discern anything else.
> >
> > Oh yes, the AT-200 is quite popular whereas the
> AT-180 is hard to come
> > by.
> >
> > Thanks & 73,
> > de Aron VU2JMX.
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[Non-text portions of this message have been removed]

20103. RE: [TS-520_820_530_830] Re: AT-200 and AT-180 Antenna Tuners

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 18:04:01 UTC
From: Dave wej
Topic: 20087 Message: 20103

Model numbers??? Different!!

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of vu2jmx
Sent: February 8, 2009 12:41 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: AT-200 and AT-180 Antenna Tuners

David,

I thought so too. The manual doesn't show it at least.
Then.... what IS the difference between AT-180 and At-200... Puhleeeze..

Thanks.

--- On Sun, 2/8/09, David Rogers <wa7zyq@...
<mailto:wa7zyq%40stmarieswireless.com> > wrote:

> From: David Rogers <wa7zyq@...
<mailto:wa7zyq%40stmarieswireless.com> >
> Subject: Re: [TS-520_820_530_830] Re: AT-200 and AT-180 Antenna Tuners
> To: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
> Received: Sunday, February 8, 2009, 11:47 AM
> The AT-200 does not have the WARC bands on the switch -- at
> least, the one I have doesn't have them. The AT-230
> added the WARC bands.
>
> David, WA7ZYQ
>
> ----- Original Message -----
> From: plungerdp
> To: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Sunday, February 08, 2009 7:36 AM
> Subject: [TS-520_820_530_830] Re: AT-200 and AT-180
> Antenna Tuners
>
>
> --- The difference between the AT-180 and the AT-200 is
> the AT-200 has
> warc bans on the switch. I use an At-180 as a 10m tuned
> input for the
> SB-200.
>
> Harry, k6aom

>
> "I hope that this gets posted"!
>
> --- In TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com> ,
> "vu2jmx" <vu2jmx@...> wrote:
> >
> > Could someone please tell me the difference between
> an AT-200 and an AT-
> > 180 antenna tuners ??
> > Well, I do know for sure the AT-200 was for
> TS-520/820 series and AT-
> > 180 was for TS-180 series. After going through the
> schematics/manual of
> > both, except for the different model numbers and a
> slight cosmetic
> > change on the front panel (+ top/bottom covers are
> switched), I could
> > not discern anything else.
> >
> > Oh yes, the AT-200 is quite popular whereas the
> AT-180 is hard to come
> > by.
> >
> > Thanks & 73,
> > de Aron VU2JMX.
> >
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> [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

20104. Re: TX Freq Drift on TS520SE during PSK31 operation

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 17:14:55 UTC
From: robin_joe2000
Topic: 20049 Message: 20104

Thanks to all for your helpful suggestions. My solution, for now, is to use RTTY so I can get Triple Play completed (just starting on it now). RTTY is much less frustrating due to the much wider bandwidth with little requirement for TX freq stability.

Once triple play is completed, I may investigate further. Seems like the most likely culprit is 9V instability. Or, just use my TS520 for what it does best, and save up for one of the nice 1ppm rigs.

20105. Re: [TS-520_820_530_830] Re: TS-520 - 40Mtr Driver slug

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 17:41:27 UTC
From: Mike Bryce
Topic: 20061 Message: 20105

I've used this process before and it worked more than it failed

try a hair dryer!

set it on hot and heat the coil form up.

this will expand the form ever so slightly allow you grab the slug.

mike

Mike, WB8VGE
SunLight Energy Systems
The Heathkit Shop
http://www.theheathkitshop.com/
J e e p
o|||||||o
Note: No trees were killed in the sending of this message, but a large
number of electrons were terribly inconvenienced

[Non-text portions of this message have been removed]

20106. Re: AT-200 and AT-180 Antenna Tuners

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 19:02:16 UTC
From: vu2jmx
Topic: 20087 Message: 20106

Dave, OM, you perhaps missed my first mail on this subject.

Thanks & 73..

--- On Sun, 2/8/09, Dave wej <ve3wej@...> wrote:

> From: Dave wej <ve3wej@...>
> Subject: RE: [TS-520_820_530_830] Re: AT-200 and AT-180 Antenna Tuners
> To: TS-520_820_530_830@yahoogroups.com
> Received: Sunday, February 8, 2009, 1:04 PM
> Model numbers??? Different!!
>
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> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of
> vu2jmx
> Sent: February 8, 2009 12:41 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: AT-200 and AT-180 Antenna
> Tuners
>
>
>
> David,
>
> I thought so too. The manual doesn't show it at least.
> Then.... what IS the difference between AT-180 and
> At-200... Puhleeeze..
>
> Thanks.
>
> --- On Sun, 2/8/09, David Rogers
> <wa7zyq@...
> <mailto:wa7zyq%40stmarieswireless.com> > wrote:
>
> > From: David Rogers <wa7zyq@...
> <mailto:wa7zyq%40stmarieswireless.com> >
> > Subject: Re: [TS-520_820_530_830] Re: AT-200 and
> AT-180 Antenna Tuners
> > To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>

> > Received: Sunday, February 8, 2009, 11:47 AM
> > The AT-200 does not have the WARC bands on the switch
> -- at
> > least, the one I have doesn't have them. The
> AT-230
> > added the WARC bands.
> >
> > David, WA7ZYQ
> >
> > ----- Original Message -----
> > From: plungerdp
> > To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > Sent: Sunday, February 08, 2009 7:36 AM
> > Subject: [TS-520_820_530_830] Re: AT-200 and AT-180
> > Antenna Tuners
> >
> >
> > --- The difference between the AT-180 and the AT-200
> is
> > the AT-200 has
> > warc bans on the switch. I use an At-180 as a 10m
> tuned
> > input for the
> > SB-200.
> >
> > Harry, k6aom
> >
> > "I hope that this gets posted"!
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com> ,
> > "vu2jmx" <vu2jmx@...> wrote:
> > >
> > > Could someone please tell me the difference
> between
> > an AT-200 and an AT-
> > > 180 antenna tuners ??
> > > Well, I do know for sure the AT-200 was for
> > TS-520/820 series and AT-
> > > 180 was for TS-180 series. After going through
> the
> > schematics/manual of
> > > both, except for the different model numbers and
> a
> > slight cosmetic
> > > change on the front panel (+ top/bottom covers
> are
> > switched), I could
> > > not discern anything else.

> > >
> > > Oh yes, the AT-200 is quite popular whereas the
> > AT-180 is hard to come
> > > by.
> > >
> > > Thanks & 73,
> > > de Aron VU2JMX.
> > >
> >
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> >
> > [Non-text portions of this message have been removed]
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> > ------------------------------------
> >
> > Yahoo! Groups Links
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> ---
> Instant Messaging, free SMS, sharing photos and more... Try
> the new Yahoo!
> Canada Messenger at http://ca.beta.messenger.yahoo.com/
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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Instant Messaging, free SMS, sharing photos and more... Try the new Yahoo! Canada Messenger
at http://ca.beta.messenger.yahoo.com/

20107. Re:AT-200 and AT-180 Antenna Tuners

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 19:05:49 UTC
From: vu2jmx
Topic: 20087 Message: 20107

Thans David.

Maybe there is a subtle difference in the inside construction/ component layout. I'll post some inside pics of my AT-180. You can then tell me the difference..

Aron.

--- On Sun, 2/8/09, David Rogers <wa7zyq@...> wrote:

> From: David Rogers <wa7zyq@...>
> Subject: Re: [TS-520_820_530_830] Re: AT-200 and AT-180 Antenna Tuners
> To: TS-520_820_530_830@yahoogroups.com
> Received: Sunday, February 8, 2009, 12:56 PM
> As best as I can tell -- cosmetic. The AT-200 has the
> chrome "ring" around it to match the '520, and
> the print on the face is a little different, though the
> functions all appear to be the same. I have the AT-200 so
> know that it doesn't have the WARC bands, but do not
> have an AT-180 and so am guessing from photos.
>
> There may or may not be internal differences, though I
> believe they came out about the same time and would be
> willing to bet they are pretty much the same. OTOH, that
> wouldn't be the first bet I ever lost. Hi!
>
> David, WA7ZYQ
>
> ----- Original Message -----
> From: vu2jmx
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, February 08, 2009 9:40 AM
> Subject: [TS-520_820_530_830] Re: AT-200 and AT-180
> Antenna Tuners
>
>
> David,
>
> I thought so too. The manual doesn't show it at
> least.
> Then.... what IS the difference between AT-180 and
> At-200... Puhleeeze..
>
> Thanks.
>
> --- On Sun, 2/8/09, David Rogers
> <wa7zyq@...> wrote:

>
> > From: David Rogers
> <wa7zyq@...>
> > Subject: Re: [TS-520_820_530_830] Re: AT-200 and
> AT-180 Antenna Tuners
> > To: TS-520_820_530_830@yahoogroups.com
> > Received: Sunday, February 8, 2009, 11:47 AM
> > The AT-200 does not have the WARC bands on the
> switch -- at
> > least, the one I have doesn't have them. The
> AT-230
> > added the WARC bands.
> >
> > David, WA7ZYQ
> >
> > ----- Original Message -----
> > From: plungerdp
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Sunday, February 08, 2009 7:36 AM
> > Subject: [TS-520_820_530_830] Re: AT-200 and AT-180
> > Antenna Tuners
> >
> >
> > --- The difference between the AT-180 and the AT-200
> is
> > the AT-200 has
> > warc bans on the switch. I use an At-180 as a 10m
> tuned
> > input for the
> > SB-200.
> >
> > Harry, k6aom
> >
> > "I hope that this gets posted"!
> >
> > --- In TS-520_820_530_830@yahoogroups.com,
> > "vu2jmx" <vu2jmx@...> wrote:
> > >
> > > Could someone please tell me the difference
> between
> > an AT-200 and an AT-
> > > > 180 antenna tuners ??
> > > > Well, I do know for sure the AT-200 was for
> > TS-520/820 series and AT-
> > > > 180 was for TS-180 series. After going through
> the
> > schematics/manual of
> > > > both, except for the different model numbers
> and a
> > slight cosmetic

> > > change on the front panel (+ top/bottom covers
> are
> > switched), I could
> > > not discern anything else.
> > >
> > > Oh yes, the AT-200 is quite popular whereas the
> > AT-180 is hard to come
> > > by.
> > >
> > > Thanks & 73,
> > > de Aron VU2JMX.
> > >
> >
> >
> >
> >
> > [Non-text portions of this message have been
> removed]
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> > ------------------------------------
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> > Yahoo! Groups Links
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> ~~~~~~
> Instant Messaging, free SMS, sharing photos and more...
> Try the new Yahoo! Canada Messenger at
> http://ca.beta.messenger.yahoo.com/
>
>
>
> [Non-text portions of this message have been removed]
>
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> ------------------------------------
>
> Yahoo! Groups Links
>
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>

Get the name you've always wanted @... or @...! Go to http://ca.promos.yahoo.com/jacko/

20108. Re: TS 830s: Problem with VOX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 19:46:50 UTC
From: kj4du
Topic: 20002 Message: 20108

Hi,
I had a very similar problem with my TS-830S several years ago where VOX would not work on CW. Problem was R61 on the audio board, this is a 2.2 megohm resistor but had drifted up to a much higher value. The resistor did not show any sign of physical damage. You need to disconnect one end of this resistor or temporarily cut the lead on one end to get an accurate reading with the ohm meter. Hope this helps.
.....Tex, KJ4DU

In TS-520_820_530_830@yahoogroups.com, "hb9fap" <hb9fap@...> wrote:
>
> Hi all
> I am a proud owner of a TS 830s since more than 20 years. I noticed in
> the past days a problem, that never happened before with my TS 830s.
> While transmitting on CW (with an external electronic keyer), the VOX
> started not working properly. I mean, by using the GAIN and DELAY all
> was OK, then it started to not switch anymore on Transmission. I
> noticed that by increasing the GAIN it was for a while working, but
> after a few times, there was simply no more switch by touching the
> paddles of the CW-Keyer. So at the moment the only way to transmit on
> CW is to switch the REC-SEND button to SEND before starting
> transmitting on CW. This is of course not very confortable.
> I even noticed that the VOX does not work with the Microphone (even
> when on CW the VOX was still working, it was already not working with
> the Microphone).
> Is there anybody who can have a suggestion, where the problem could
> be, and how to fix it?
> Please apologize for my english, I hope it is good enough to let you
> understand what my problem is...
>
> MANY thanks in adavance for any possible help!
>
> 73s from Switzerland, HB9FAP
>

20109. Re: AT-200 and AT-180 Antenna Tuners

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 20:39:14 UTC
From: plungerdp
Topic: 20087 Message: 20109

--- Whoops! My Bad, do not know why but was thinking diff between 120
and the 130. I should have looked under the cover and it would have
bit me. Have not used it in awhile since I got my 920. That's what
happens when ya'll got four complete stations and only use two, plus
with the 101's sitting unpluged.
The only difference that I can see between the 180 and 200 is the
180 compliments the ts 180 series and the 200 was designed to
compliment the 520 and 820 series of radios (according to kenwood info.).

Harry

--- In TS-520_820_530_830@yahoogroups.com, "David Rogers" <wa7zyq@...>
wrote:
>
> The AT-200 does not have the WARC bands on the switch -- at least,
the one I have doesn't have them. The AT-230 added the WARC bands.
>
> David, WA7ZYQ
>
> ----- Original Message -----
> From: plungerdp
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, February 08, 2009 7:36 AM
> Subject: [TS-520_820_530_830] Re: AT-200 and AT-180 Antenna Tuners
>
>
> --- The difference between the AT-180 and the AT-200 is the AT-200 has
> warc bans on the switch. I use an At-180 as a 10m tuned input for the
> SB-200.
>
> Harry, k6aom
>
> "I hope that this gets posted"!
>
> --- In TS-520_820_530_830@yahoogroups.com, "vu2jmx" <vu2jmx@> wrote:
> >
> > Could someone please tell me the difference between an AT-200
and an AT-
> > 180 antenna tuners ??
> > Well, I do know for sure the AT-200 was for TS-520/820 series
and AT-
> > 180 was for TS-180 series. After going through the
schematics/manual of
> > both, except for the different model numbers and a slight cosmetic
> > change on the front panel (+ top/bottom covers are switched), I

could
> > not discern anything else.
> >
> > Oh yes, the AT-200 is quite popular whereas the AT-180 is hard
to come
> > by.
> >
> > Thanks & 73,
> > de Aron VU2JMX.
> >
>
>
>
>
> [Non-text portions of this message have been removed]
>

20110. Re: [TS-520_820_530_830] Re:AT-200 and AT-180 Antenna Tuners

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-08 23:45:56 UTC
From: David Rogers
Topic: 20087 Message: 20110

Why don't you email them to me. I will compare with the at-200 and, if there is an internal difference, I can take a photo and email it back to you.

David, WA7ZYQ

----- Original Message -----
From: vu2jmx
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, February 08, 2009 11:05 AM
Subject: [TS-520_820_530_830] Re:AT-200 and AT-180 Antenna Tuners

Thans David.

Maybe there is a subtle difference in the inside construction/ component layout. I'll post some inside pics of my AT-180. You can then tell me the difference..

Aron.

--- On Sun, 2/8/09, David Rogers <wa7zyq@...> wrote:

> From: David Rogers <wa7zyq@...>
> Subject: Re: [TS-520_820_530_830] Re: AT-200 and AT-180 Antenna Tuners
> To: TS-520_820_530_830@yahoogroups.com
> Received: Sunday, February 8, 2009, 12:56 PM
> As best as I can tell -- cosmetic. The AT-200 has the
> chrome "ring" around it to match the '520, and
> the print on the face is a little different, though the
> functions all appear to be the same. I have the AT-200 so
> know that it doesn't have the WARC bands, but do not
> have an AT-180 and so am guessing from photos.
>
> There may or may not be internal differences, though I
> believe they came out about the same time and would be
> willing to bet they are pretty much the same. OTOH, that
> wouldn't be the first bet I ever lost. Hi!
>
> David, WA7ZYQ
>
> ----- Original Message -----
> From: vu2jmx
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, February 08, 2009 9:40 AM
> Subject: [TS-520_820_530_830] Re: AT-200 and AT-180
> Antenna Tuners
>
>
> David,

>
> I thought so too. The manual doesn't show it at
> least.
> Then.... what IS the difference between AT-180 and
> At-200... Puhleeeze..
>
> Thanks.
>
> --- On Sun, 2/8/09, David Rogers
> <wa7zyq@...> wrote:
>
> > From: David Rogers
> <wa7zyq@...>
> > Subject: Re: [TS-520_820_530_830] Re: AT-200 and
> AT-180 Antenna Tuners
> > To: TS-520_820_530_830@yahoogroups.com
> > Received: Sunday, February 8, 2009, 11:47 AM
> > The AT-200 does not have the WARC bands on the
> switch -- at
> > least, the one I have doesn't have them. The
> AT-230
> > added the WARC bands.
> >
> > David, WA7ZYQ
> >
> > ----- Original Message -----
> > From: plungerdp
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Sunday, February 08, 2009 7:36 AM
> > Subject: [TS-520_820_530_830] Re: AT-200 and AT-180
> > Antenna Tuners
> > >
> > >
> > --- The difference between the AT-180 and the AT-200
> is
> > the AT-200 has
> > warc bans on the switch. I use an At-180 as a 10m
> tuned
> > input for the
> > SB-200.
> > >
> > Harry, k6aom
> > >
> > "I hope that this gets posted"!
> > >
> > --- In TS-520_820_530_830@yahoogroups.com,
> > "vu2jmx" <vu2jmx@...> wrote:
> > >
> > > Could someone please tell me the difference
> between

> > an AT-200 and an AT-
> > > 180 antenna tuners ??
> > > Well, I do know for sure the AT-200 was for
> > TS-520/820 series and AT-
> > > 180 was for TS-180 series. After going through
> the
> > schematics/manual of
> > > both, except for the different model numbers
> and a
> > slight cosmetic
> > > change on the front panel (+ top/bottom covers
> are
> > switched), I could
> > > not discern anything else.
> > >
> > > Oh yes, the AT-200 is quite popular whereas the
> > AT-180 is hard to come
> > > by.
> > >
> > > Thanks & 73,
> > > de Aron VU2JMX.
> > >
> >
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> > [Non-text portions of this message have been
> removed]
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> >
> > Yahoo! Groups Links
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> ~~~~~~
> Instant Messaging, free SMS, sharing photos and more...
> Try the new Yahoo! Canada Messenger at
> http://ca.beta.messenger.yahoo.com/
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> [Non-text portions of this message have been removed]
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>
> Yahoo! Groups Links
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>

Get the name you've always wanted @... or @...! Go to http://ca.promos.yahoo.com/jacko/

[Non-text portions of this message have been removed]

20111. Re:AT-200 and AT-180 Antenna Tuners

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-09 00:26:06 UTC
From: vu2jmx
Topic: 20087 Message: 20111

Yes, sent them just now. Thank you.

I'll also make them available at www.qsl.net/vu2jmx/at180 in about 10-15 minutes. I want to downsize them before uploading...

73,

de Aron VU2JMX.

--- On Sun, 2/8/09, David Rogers <wa7zyq@...> wrote:

> From: David Rogers <wa7zyq@...>
> Subject: Re: [TS-520_820_530_830] Re:AT-200 and AT-180 Antenna Tuners
> To: TS-520_820_530_830@yahoogroups.com
> Received: Sunday, February 8, 2009, 6:45 PM
> Why don't you email them to me. I will compare with the
> at-200 and, if there is an internal difference, I can take a
> photo and email it back to you.
>
> David, WA7ZYQ
>
> ----- Original Message -----
> From: vu2jmx
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, February 08, 2009 11:05 AM
> Subject: [TS-520_820_530_830] Re:AT-200 and AT-180
> Antenna Tuners
>
>
> Thans David.
>
> Maybe there is a subtle difference in the inside
> construction/ component layout. I'll post some inside
> pics of my AT-180. You can then tell me the difference..
>
> Aron.
>
> --- On Sun, 2/8/09, David Rogers
> <wa7zyq@...> wrote:
>
> > From: David Rogers
> <wa7zyq@...>
> > Subject: Re: [TS-520_820_530_830] Re: AT-200 and
> AT-180 Antenna Tuners
> > To: TS-520_820_530_830@yahoogroups.com
> > Received: Sunday, February 8, 2009, 12:56 PM

> > As best as I can tell -- cosmetic. The AT-200 has
> the
> > chrome "ring" around it to match the
> '520, and
> > the print on the face is a little different, though
> the
> > functions all appear to be the same. I have the
> AT-200 so
> > know that it doesn't have the WARC bands, but do
> not
> > have an AT-180 and so am guessing from photos.
> >
> > There may or may not be internal differences, though
> I
> > believe they came out about the same time and would
> be
> > willing to bet they are pretty much the same. OTOH,
> that
> > wouldn't be the first bet I ever lost. Hi!
> >
> > David, WA7ZYQ
> >
> > ----- Original Message -----
> > From: vu2jmx
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Sunday, February 08, 2009 9:40 AM
> > Subject: [TS-520_820_530_830] Re: AT-200 and AT-180
> > Antenna Tuners
> >
> >
> > David,
> >
> > I thought so too. The manual doesn't show it at
> > least.
> > Then.... what IS the difference between AT-180 and
> > At-200... Puhleeeze..
> >
> > Thanks.
> >
> > --- On Sun, 2/8/09, David Rogers
> > <wa7zyq@...> wrote:
> >
> > > From: David Rogers
> > <wa7zyq@...>
> > > Subject: Re: [TS-520_820_530_830] Re: AT-200
> and
> > AT-180 Antenna Tuners
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Received: Sunday, February 8, 2009, 11:47 AM
> > > The AT-200 does not have the WARC bands on the

> > switch -- at
> > > least, the one I have doesn't have them.
> The
> > AT-230
> > > added the WARC bands.
> > >
> > > David, WA7ZYQ
> > >
> > > ----- Original Message -----
> > > From: plungerdp
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Sent: Sunday, February 08, 2009 7:36 AM
> > > Subject: [TS-520_820_530_830] Re: AT-200 and
> AT-180
> > > Antenna Tuners
> > >
> > >
> > > --- The difference between the AT-180 and the
> AT-200
> > is
> > > the AT-200 has
> > > warc bans on the switch. I use an At-180 as a
> 10m
> > tuned
> > > input for the
> > > SB-200.
> > >
> > > Harry, k6aom
> > >
> > > "I hope that this gets posted"!
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com,
> > > "vu2jmx" <vu2jmx@...> wrote:
> > > >
> > > > Could someone please tell me the
> difference
> > between
> > > an AT-200 and an AT-
> > > > 180 antenna tuners ??
> > > > Well, I do know for sure the AT-200 was
> for
> > > TS-520/820 series and AT-
> > > > 180 was for TS-180 series. After going
> through
> > the
> > > schematics/manual of
> > > > both, except for the different model
> numbers
> > and a
> > > slight cosmetic

> > > > change on the front panel (+ top/bottom
> covers
> > are
> > > switched), I could
> > > > not discern anything else.
> > > >
> > > > Oh yes, the AT-200 is quite popular
> whereas the
> > > AT-180 is hard to come
> > > > by.
> > > >
> > > > Thanks & 73,
> > > > de Aron VU2JMX.
> > > >
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> > > [Non-text portions of this message have been
> > removed]
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> > > Yahoo! Groups Links
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> > ~---~
> > Instant Messaging, free SMS, sharing photos and
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> > Try the new Yahoo! Canada Messenger at
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> > [Non-text portions of this message have been
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> >
> > Yahoo! Groups Links
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> ~~~~~~
> Get the name you've always wanted @... or
> @...! Go to http://ca.promos.yahoo.com/jacko/
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>
>
> [Non-text portions of this message have been removed]
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>
> Yahoo! Groups Links
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>

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Instant Messaging, free SMS, sharing photos and more... Try the new Yahoo! Canada Messenger at http://ca.beta.messenger.yahoo.com/
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20112. Kozl Respects to ALL his Family

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-09 01:11:26 UTC
From: Bob M
Topic: 20112 Message: 20112

It is with Great sadness that I have read of Bill's demise.

He was always helping new Boat Anchor owners with

The methods to keep these Cherished Radio's on-air.

Bill Preached Safety First when dealing with the main &

High Voltage within them. Like many in the Yahoo Groups

We were able to keep the working teaching us all to

Respect that he power can bight and be fatal if not respected.

Our Prayers and sincere thoughts for his family and friends

Both in Real life and on the net as well as the many contacts

He has made while on-air with operators all over the World.

Please pass along My Wife's Ruth's VK4HEY and my own

Bob VK4HAY regrets to his family from Down Under in

Australia

Regards Bob & Ruth

[Non-text portions of this message have been removed]

20113. Re: AT-200 and AT-180 Antenna Tuners

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-09 01:32:13 UTC
From: vu2jmx
Topic: 20087 Message: 20113

David, OM, many thanks for the pictures.

Yes, it is the size that is different between the two (ignoring the cosmetics).

Frankly, when I first opened the top cover I kept wondering why there was so much space between the porcelain former and the rear end. So, somebody in Trio, Japan realized that too, after the first lot rolled out of production. Hi Hi

I'm posting this on the group for others' benefit, of course minus the pictures.

Thanks and 73,

de Aron VU2JMX.

--- On Sun, 2/8/09, David Rogers <wa7zyq@...> wrote:

> From: David Rogers <wa7zyq@...>
> Subject: Re: Re:AT-200 and AT-180 Antenna Tuners
> To: "vu2jmx" <vu2jmx@...>
> Received: Sunday, February 8, 2009, 8:11 PM
> And here are the photos of the AT-200. It looks to me as if
> the main
> difference is that the AT-200 is more compact (shorter)
> than the AT-180 and
> perhaps a little more robustly constructed. Hard to tell
> about the latter
> without an actual side-by-side comparison. Bottom line:
> essentially the
> same except for cosmetics.
>
> David, WA7ZYQ

_____
Looking for the perfect gift? Give the gift of Flickr!

http://www.flickr.com/gift/

20114. Re: [TS-520_820_530_830] Re: AT-200 and AT-180 Antenna Tuners

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-09 01:35:19 UTC
From: David Rogers
Topic: 20087 Message: 20114

Perhaps you can offer the photos to anyone who would like to see the comparison. I think it is interesting -- if only from an equipment design evolution point of view.

I could also send the photos to anyone requesting.

73,

David, WA7ZYQ

----- Original Message -----
From: vu2jmx
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, February 08, 2009 5:32 PM
Subject: [TS-520_820_530_830] Re: AT-200 and AT-180 Antenna Tuners

David, OM, many thanks for the pictures.

Yes, it is the size that is different between the two (ignoring the cosmetics).

Frankly, when I first opened the top cover I kept wondering why there was so much space between the porcelain former and the rear end. So, somebody in Trio, Japan realized that too, after the first lot rolled out of production. Hi Hi

I'm posting this on the group for others' benefit, of course minus the pictures.

Thanks and 73,

de Aron VU2JMX.

--- On Sun, 2/8/09, David Rogers <wa7zyq@...> wrote:

> From: David Rogers <wa7zyq@...>
> Subject: Re: Re:AT-200 and AT-180 Antenna Tuners
> To: "vu2jmx" <vu2jmx@...>
> Received: Sunday, February 8, 2009, 8:11 PM
> And here are the photos of the AT-200. It looks to me as if
> the main
> difference is that the AT-200 is more compact (shorter)
> than the AT-180 and
> perhaps a little more robustly constructed. Hard to tell
> about the latter
> without an actual side-by-side comparison. Bottom line:
> essentially the
> same except for cosmetics.
>
> David, WA7ZYQ

_____
Looking for the perfect gift? Give the gift of Flickr!

http://www.flickr.com/gift/

[Non-text portions of this message have been removed]

20115. Re: Pictures of AT-200 and AT-180 Antenna Tuners

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-09 02:01:16 UTC
From: vu2jmx
Topic: 20087 Message: 20115

Done.
The pictures you sent are also available at www.qsl.net/vu2jmx/at180

Thanks once again David.

73,
Aron, VU2JMX.

--- On Sun, 2/8/09, David Rogers <wa7zyq@...> wrote:

> From: David Rogers <wa7zyq@...>
> Subject: Re: [TS-520_820_530_830] Re: AT-200 and AT-180 Antenna Tuners
> To: TS-520_820_530_830@yahoogroups.com
> Received: Sunday, February 8, 2009, 8:35 PM
> Perhaps you can offer the photos to anyone who would like to
> see the comparison. I think it is interesting -- if only
> from an equipment design evolution point of view.
>
> I could also send the photos to anyone requesting.
>
> 73,

_____
Be smarter than spam. See how smart SpamGuard is at giving junk email the boot with the All-new Yahoo! Mail. Click on Options in Mail and switch to New Mail today or register for free at http://mail.yahoo.ca

20116. Re: Birdie, image, some damn thing...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-09 02:52:44 UTC
From: al_kozakiewicz
Topic: 19767 Message: 20116

FYI, I finally found it.

It was an old 3Com hub I got for nothing located in the basement
alongside a Cisco uBR router from my telecom company.
Sometimes "free" does not equal "good". A newer 3Com hub in the
shack exhibits the same problem, though not nearly to the same degree.

Time to replace it with something made in the last 10 years.

Thanks for all the suggestions.

Al
AB2ZY

--- In TS-520_820_530_830@yahoogroups.com, "al_kozakiewicz"
<akozak@...> wrote:
>
> TS-820S.
>
> On 20m and 15m (I haven't checked 10m - why bother at this point in
the
> solar cycle), I hear some kind of signal every 61 kHz. It kinda
sounds
> like a buzzsaw in a sea shell.
>
> I know I haven't given a whole lot of useful information, but I was
> wondering if anyone else experienced this with a Kenwood. Is it
likely
> something with the receiver, or should I go looking for outside
sources
> (computers, network equipment, wireless router, ???)? Is there
> something magic about 61 kHz that escapes me?
>
> Al
> AB2ZY
>

20117. TS-520S For Sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-09 04:25:33 UTC
From: jsloss
Topic: 20117 Message: 20117

$215. Photos and details please reply off-list.

Joe k7mks@...

[Non-text portions of this message have been removed]

20118. Re: [TS-520_820_530_830] Re: Birdie, image, some damn thing...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-09 05:03:31 UTC
From: martin
Topic: 19767 Message: 20118

Hi. It might not be the hub itself, itv may be the power supply. I
have a Belkin router, and it had a really noisy switching power
supply. I replaced it with a non-switching supply and the noise went
away.

Aparently noisy switching supplies are common with routers and hubs.

al_kozakiewicz wrote:
> FYI, I finally found it.
>
> It was an old 3Com hub I got for nothing located in the basement
> alongside a Cisco uBR router from my telecom company.
> Sometimes "free" does not equal "good". A newer 3Com hub in the
> shack exhibits the same problem, though not nearly to the same degree.
>
> Time to replace it with something made in the last 10 years.
>
> Thanks for all the suggestions.
>
> Al
> AB2ZY
>
> --- In TS-520_820_530_830@yahoogroups.com, "al_kozakiewicz"
> <akozak@...> wrote:
>> TS-820S.
>>
>> On 20m and 15m (I haven't checked 10m - why bother at this point in
> the
>> solar cycle), I hear some kind of signal every 61 kHz. It kinda
> sounds
>> like a buzzsaw in a sea shell.
>>
>> I know I haven't given a whole lot of useful information, but I was
>> wondering if anyone else experienced this with a Kenwood. Is it
> likely
>> something with the receiver, or should I go looking for outside
> sources
>> (computers, network equipment, wireless router, ???)? Is there
>> something magic about 61 kHz that escapes me?
>>
>> Al
>> AB2ZY
>>
>
>

>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

20119. AT-180, 200, 230 - VR1,2,3 trimpot resistance

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-09 06:31:27 UTC
From: vu2jmx
Topic: 20119 Message: 20119

David and anybody having an AT-180/ AT-230 Antenna tuner,

I need some help.

When you get a chance, could you please measure the resistance across VR1, VR2 and VR3 trimpot leads ??

AT-200 tripot values are different, whereas AT-180 and AT-230 are the same. (despite using a 300microamp meter in all the above models).

I could also use the readings of AT-200 as a benchmark - to start with. Anyways I'm groping in the dark. I'm convinced the previous owner/s has/have changed the factory settings of VR1,2 and 3 to operate at high power levels.

BTW, AT-230 is ditto AT-180 except for the WARC bands. Even the case is the same long one unlike AT-200's smaller case.

Thank you for your time.

73,
de Aron, VU2JMX.

20120. Denver Post obituary for Bill K0ZL

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-09 11:37:07 UTC
From: Walter A. Breining
Topic: 20120 Message: 20120

I copied this from the Amateur-repairs group
Walt N9WB

----- Original Message -----
From: Jeff Geiger
To: Amateur-repairs@yahoogroups.com
Sent: Saturday, February 07, 2009 12:40 AM
Subject: [Amateur-repairs] Re: K0ZL (SK)

Link to Denver Post obituary for Bill of B&B Tech Services. I think
he would have liked the article - got a good advertisement in for
hamming along with the obit.

http://www.denverpost.com/obituaries/ci_11640237

73, Jeff W0AI

20121. Re: TS 830s: Problem with VOX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-09 13:16:23 UTC
From: w5rkl
Topic: 20002 Message: 20121

Hi Tex,

R61 is part of the VOX gain circuit and, in sideband, it would defanately have an affect on VOX operation. However, in TUNE, CW-W, and CW-N modes, the VOX gain circuit is not used and is turned off by the mode switch. In CW mode the sidetone oscillator signal bypasses the VOX gain circuit and is fed to diode D9 where it is rectified into an ON and OFF DC voltage that is further fed through R60 to Q12. Q12 is part of the VOX relay and delay circuit that controls activation of relay RL1 and how long RL1 remains activated.

Having said that, Fabio's problem now appears to be a non-functioning CW sidetone oscillator and not a VOX problem. Without a sidetone oscillator signal fed to diode D9 on the AF unit, CW break-in will not work.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "kj4du" <kj4du@...> wrote:
>
> Hi,
> I had a very similar problem with my TS-830S several years ago where
> VOX would not work on CW. Problem was R61 on the audio board, this is
> a 2.2 megohm resistor but had drifted up to a much higher value. The
> resistor did not show any sign of physical damage. You need to
> disconnect one end of this resistor or temporarily cut the
> lead on one end to get an accurate reading with the ohm meter. Hope
> this helps.
> .....Tex, KJ4DU
>
>
>
> In TS-520_820_530_830@yahoogroups.com, "hb9fap" <hb9fap@> wrote:
> >
> > Hi all
> > I am a proud owner of a TS 830s since more than 20 years. I noticed in
> > the past days a problem, that never happened before with my TS 830s.
> > While transmitting on CW (with an external electronic keyer), the VOX
> > started not working properly. I mean, by using the GAIN and DELAY all
> > was OK, then it started to not switch anymore on Transmission. I
> > noticed that by increasing the GAIN it was for a while working, but
> > after a few times, there was simply no more switch by touching the
> > paddles of the CW-Keyer. So at the moment the only way to transmit on
> > CW is to switch the REC-SEND button to SEND before starting

> > transmitting on CW. This is of course not very confortable.
> > I even noticed that the VOX does not work with the Microphone (even
> > when on CW the VOX was still working, it was already not working with
> > the Microphone).
> > Is there anybody who can have a suggestion, where the problem could
> > be, and how to fix it?
> > Please apologize for my english, I hope it is good enough to let you
> > understand what my problem is...
> >
> > MANY thanks in adavance for any possible help!
> >
> > 73s from Switzerland, HB9FAP
> >
>

20122. Re: Birdie, image, some damn thing...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-09 15:06:53 UTC
From: al_kozakiewicz
Topic: 19767 Message: 20122

This is an old rack mounted hub. The power supply is internal to the device. Believe me, I can scare up something newer!

Thanks and regards,

Al
AB2ZY

--- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@...> wrote:
>
> Hi. It might not be the hub itself, itv may be the power supply. I
> have a Belkin router, and it had a really noisy switching power
> supply. I replaced it with a non-switching supply and the noise went
> away.
>
> Aparently noisy switching supplies are common with routers and hubs.
>
>
> al_kozakiewicz wrote:
> > FYI, I finally found it.
> >
> > It was an old 3Com hub I got for nothing located in the basement
> > alongside a Cisco uBR router from my telecom company.
> > Sometimes "free" does not equal "good". A newer 3Com hub in the
> > shack exhibits the same problem, though not nearly to the same degree.
> >
> > Time to replace it with something made in the last 10 years.
> >
> > Thanks for all the suggestions.
> >
> > Al
> > AB2ZY
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "al_kozakiewicz"
> > <akozak@> wrote:
> >> TS-820S.
> >>
> >> On 20m and 15m (I haven't checked 10m - why bother at this point in
> > the
> >> solar cycle), I hear some kind of signal every 61 kHz. It kinda
> > sounds
> >> like a buzzsaw in a sea shell.

> >>
> >> I know I haven't given a whole lot of useful information, but I
was
> >> wondering if anyone else experienced this with a Kenwood. Is it
> > likely
> >> something with the receiver, or should I go looking for outside
> > sources
> >> (computers, network equipment, wireless router, ???)? Is there
> >> something magic about 61 kHz that escapes me?
> >>
> >> Al
> >> AB2ZY
> >>
> >
> >
> >
>
> --
> CUL8R
>
> KBOHAE kb0hae@... Martin
Campbell
>
> A Satisfied Sidux Linux user! To get Sidux go to:
> www.sidux.com/index.html
> "Protect your digital freedom and privacy, eliminate DRM, learn
more
> at http://www.defectivebydesign.org/what_is_drm"
>

20123. Re: [TS-520_820_530_830] Re: TS 830s: Problem with VOX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-09 14:17:15 UTC
From: Fabio Scherrer
Topic: 20002 Message: 20123

Hello Mike and Adrian
So, Yesterday I could at least take the time to measure D9 on the AF Unit. Well, D9 works properly. OK, next I will check R13 in the rectifier unit.
Adrian: as you mentioned, in your mail, it's not enough to just measure it, cause it could "look" OK but not working properly. So, let me ask, at best I just replace it. OK?
Mike: I am happy to see that you and Adrian agree about R13 and many thanks about the safety tips you gave me. As UNEXPIERENCED it's good to know that I have to be very careful. In order to avoid any HV risks, is it enough that I unplug the 230 VAC cable and wait for a minutes before "touching" without risks any part of the rectifier unit or do I have to pay attention even if no 230 VAC is connected?
I bit shame from me to ask about this very basic things... hope not too many people will read this.....
It will probably takle a few days before I can replace the resistor, since I have no spare parts, I have to find them first.
Wishing you all a nice day and week and MNI TNX for GREAT help!
Vy 73's de Fabio, HB9FAP

From: w5rkl <w5rkl@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, February 8, 2009 2:17:55 PM
Subject: [TS-520_820_530_830] Re: TS 830s: Problem with VOX

Hello Fabio and Adrian,

I agree with Adrian, resistor R13 (100K) can easily prevent the sidetone from operating. Good job Adrian.

Be very careful when measuring voltages in the TS-830 with the power cable plugged into the wall. The Rectifier Unit PC board has very high voltages which can KILL YOU!! BE SAFE!!! Take your time, do not be in a hurry.

Unplug the TS-830 from the wall outlet, remove the covers, turn the TS-830 so the bottom is facing up and the front panel is facing you.

Locate the Rectifier Unit PC board which is to the "left" of the power transformer. Looking down at the Rectifier Unit PC board the "STB" pin is just forward of the relay and slightly to the left. Resistor R13 is mounted just forward of the relay.

Plug the TS-830 power cable into the wall outlet and turn the 830 on. Measure the voltage on the "STB" pin. If R13 is open or bad there will be very little or zero volts on the "STB" pin.

Again, be very careful measuring voltages on the Rectifier Unit PC board. There is high AC and DC voltages on this board!! BE SAFE!!.

Again, Adrian, good job!!

73
Mike
W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, Adrian Ellison
<ellisona@.. .> wrote:
>
> Hello again Fabio,
>
> The side tone not working is the reason that the VOX isn't working
on CW as Mike correctly states.
>
> I've seen this before on a TS-830 and in that case it was caused by
loss of the STB voltage, R13 (100k ohms) on the rectifier board was
open circuit.
>
> The STB voltage should be somewhere around 100 volts so you can
easily check that, if it's around zero volts then check R13 on the
rectifier board.
>
> I remember this fault well, there was no obvious sign of stress on
the resistor and no obvious cause of its failure, simply replacing the
resistor did the trick.
>
> Hope this helps Fabio,
>
> 73 de Adrian / ZS1TTZ
>
> On Saturday 07 February 2009 22:23:01 Fabio Scherrer wrote:
>
> > it understood.. .), so in other words, on RX when I am keing the
CW, I don't
> > hear any tone in the "background" .
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

20124. Re: [TS-520_820_530_830] Re: TS 830s: Problem with VOX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-09 16:29:00 UTC
From: Adrian Ellison
Topic: 20002 Message: 20124

Hi Fabio,

Well if the STB voltage is somewhere around 100 volts then R13 is definitely okay and we need to look elsewhere for the problem.

Good luck,

Adrian / ZS1TTZ

On Monday 09 February 2009 16:17:15 Fabio Scherrer wrote:
> Hello Mike and Adrian
> So, Yesterday I could at least take the time to measure D9 on the AF Unit.
> Well, D9 works properly. OK, next I will check R13 in the rectifier unit.
> Adrian: as you mentioned, in your mail, it's not enough to just measure it,
> cause it could "look" OK but not working properly. So, let me ask, at best
> I just replace it. OK? Mike: I am happy to see that you and Adrian agree
> about R13 and many thanks about the safety tips you gave me. As
> UNEXPIERENCED it's good to know that I have to be very careful. In order to
> avoid any HV risks, is it enough that I unplug the 230 VAC cable and wait
> for a minutes before "touching" without risks any part of the rectifier
> unit or do I have to pay attention even if no 230 VAC is connected? I bit
> shame from me to ask about this very basic things... hope not too many
> people will read this..... It will probably takle a few days before I can
> replace the resistor, since I have no spare parts, I have to find them
> first. Wishing you all a nice day and week and MNI TNX for GREAT help!
> Vy 73's de Fabio, HB9FAP
>
>
>
>
> _____
> From: w5rkl <w5rkl@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, February 8, 2009 2:17:55 PM
> Subject: [TS-520_820_530_830] Re: TS 830s: Problem with VOX
>
>
> Hello Fabio and Adrian,
>
> I agree with Adrian, resistor R13 (100K) can easily prevent the
> sidetone from operating. Good job Adrian.
>
> Be very careful when measuring voltages in the TS-830 with the power
> cable plugged into the wall. The Rectifier Unit PC board has very high
> voltages which can KILL YOU!! BE SAFE!!! Take your time, do not be in
> a hurry.

>
> Unplug the TS-830 from the wall outlet, remove the covers, turn the
> TS-830 so the bottom is facing up and the front panel is facing you.
>
> Locate the Rectifier Unit PC board which is to the "left" of the power
> transformer. Looking down at the Rectifier Unit PC board the "STB" pin
> is just forward of the relay and slightly to the left. Resistor R13 is
> mounted just forward of the relay.
>
> Plug the TS-830 power cable into the wall outlet and turn the 830 on.
> Measure the voltage on the "STB" pin. If R13 is open or bad there will
> be very little or zero volts on the "STB" pin.
>
> Again, be very careful measuring voltages on the Rectifier Unit PC
> board. There is high AC and DC voltages on this board!! BE SAFE!!.
>
> Again, Adrian, good job!!
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Adrian Ellison
>
> <ellisona@.. .> wrote:
> > Hello again Fabio,
> >
> > The side tone not working is the reason that the VOX isn't working
>
> on CW as Mike correctly states.
>
> > I've seen this before on a TS-830 and in that case it was caused by
>
> loss of the STB voltage, R13 (100k ohms) on the rectifier board was
> open circuit.
>
> > The STB voltage should be somewhere around 100 volts so you can
>
> easily check that, if it's around zero volts then check R13 on the
> rectifier board.
>
> > I remember this fault well, there was no obvious sign of stress on
>
> the resistor and no obvious cause of its failure, simply replacing the
> resistor did the trick.
>
> > Hope this helps Fabio,
> >
> > 73 de Adrian / ZS1TTZ
> >

> > On Saturday 07 February 2009 22:23:01 Fabio Scherrer wrote:
> > > it understood.. .), so in other words, on RX when I am keing the
>
> CW, I don't
>
> > > hear any tone in the "background" .
> >
> > [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]

20125. Re: TS 830s: Problem with VOX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-09 16:47:21 UTC
From: w5rkl
Topic: 20002 Message: 20125

Hello Fabio,

Just be careful when measuring voltages on the Rectifier Unit and anywhere in the TS-830. Do not touch the connections with your fingers or allow you hands, arms, or any metal ring, necklace or other jewelry to come in contact with any circuit when measuring voltage. BE SAFE and you will do fine.

Do not replace R13 until you are sure there is no voltage on the "STB" pin. The TS-830 must be turned ON to measure the voltage on the Rectifier Unit PC board STB pin. The TS-830 does not have to be in transmit.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Fabio Scherrer <hb9fap@...> wrote:
>
> Hello Mike and Adrian
> So, Yesterday I could at least take the time to measure D9 on the AF Unit. Well, D9 works properly. OK, next I will check R13 in the rectifier unit.
> Adrian: as you mentioned, in your mail, it's not enough to just measure it, cause it could "look" OK but not working properly. So, let me ask, at best I just replace it. OK?
> Mike: I am happy to see that you and Adrian agree about R13 and many thanks about the safety tips you gave me. As UNEXPIERENCED it's good to know that I have to be very careful. In order to avoid any HV risks, is it enough that I unplug the 230 VAC cable and wait for a minutes before "touching" without risks any part of the rectifier unit or do I have to pay attention even if no 230 VAC is connected?
> I bit shame from me to ask about this very basic things... hope not too many people will read this.....
> It will probably takle a few days before I can replace the resistor, since I have no spare parts, I have to find them first.
> Wishing you all a nice day and week and MNI TNX for GREAT help!
> Vy 73's de Fabio, HB9FAP
>
>
>
>
> _____
> From: w5rkl <w5rkl@...>
> To: TS-520_820_530_830@yahoogroups.com

> Sent: Sunday, February 8, 2009 2:17:55 PM
> Subject: [TS-520_820_530_830] Re: TS 830s: Problem with VOX
>
>
> Hello Fabio and Adrian,
>
> I agree with Adrian, resistor R13 (100K) can easily prevent the
> sidetone from operating. Good job Adrian.
>
> Be very careful when measuring voltages in the TS-830 with the power
> cable plugged into the wall. The Rectifier Unit PC board has very high
> voltages which can KILL YOU!! BE SAFE!!! Take your time, do not be in
> a hurry.
>
> Unplug the TS-830 from the wall outlet, remove the covers, turn the
> TS-830 so the bottom is facing up and the front panel is facing you.
>
> Locate the Rectifier Unit PC board which is to the "left" of the power
> transformer. Looking down at the Rectifier Unit PC board the "STB" pin
> is just forward of the relay and slightly to the left. Resistor R13 is
> mounted just forward of the relay.
>
> Plug the TS-830 power cable into the wall outlet and turn the 830 on.
> Measure the voltage on the "STB" pin. If R13 is open or bad there will
> be very little or zero volts on the "STB" pin.
>
> Again, be very careful measuring voltages on the Rectifier Unit PC
> board. There is high AC and DC voltages on this board!! BE SAFE!!.
>
> Again, Adrian, good job!!
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Adrian Ellison
> <ellisona@ .> wrote:
> >
> > Hello again Fabio,
> >
> > The side tone not working is the reason that the VOX isn't working
> on CW as Mike correctly states.
> >
> > I've seen this before on a TS-830 and in that case it was caused by
> loss of the STB voltage, R13 (100k ohms) on the rectifier board was
> open circuit.
> >
> > The STB voltage should be somewhere around 100 volts so you can
> easily check that, if it's around zero volts then check R13 on the
> rectifier board.

> >
> > I remember this fault well, there was no obvious sign of stress on
> the resistor and no obvious cause of its failure, simply replacing the
> resistor did the trick.
> >
> > Hope this helps Fabio,
> >
> > 73 de Adrian / ZS1TTZ
> >
> > On Saturday 07 February 2009 22:23:01 Fabio Scherrer wrote:
> >
> > > it understood.. .), so in other words, on RX when I am keing the
> CW, I don't
> > > hear any tone in the "background" .
> >
> > [Non-text portions of this message have been removed]
> >
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>
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>
> [Non-text portions of this message have been removed]
>

20126. Knobs Needed

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-09 20:58:23 UTC
From: Ron
Topic: 20126 Message: 20126

I'm looking for the control knobs for the load and meter switches for a TS-520. Same as the load and fixed channel for a TS-520S. Had to cut mine off and now need replacements.
Thanks Ron/W5RCP

20127. Re: [TS-520_820_530_830] Knobs Needed

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-10 00:15:50 UTC
From: Ron
Topic: 20126 Message: 20127

Ron, there are several sets of Kenwood TS-520 knobs for sale on ebay right now (not an auction), ranging from $29 to $49.

Ron WB9BDZ

[Non-text portions of this message have been removed]

20128. Re: [TS-520_820_530_830] Knobs Needed

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-10 00:22:25 UTC
From: Ron Pearson
Topic: 20126 Message: 20128

Ron... Thanks, but I only need those two. This radio is a seller so I want to keep the expenses down and the profit up...
Ron/W5RCP

100% CW, 100% of the Time
Fists#6259 & cc#1775, ARS#1799, FP#1047, NAQCC#483, SKCC#2922,
QRP-ARCI#13328, Houston QRP Club, HQRP Fists#11025, KCARC/Abilene, Zombie#839

From: Ron <rkeuler@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, February 9, 2009 6:15:50 PM
Subject: Re: [TS-520_820_530_830] Knobs Needed

Ron, there are several sets of Kenwood TS-520 knobs for sale on ebay
right now (not an auction), ranging from $29 to $49.

Ron WB9BDZ

[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

20129. Kenwood TS-520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-10 04:20:58 UTC
From: Michael
Topic: 20129 Message: 20129

Hello to the group, I have just recently purchased the TS-520s and just joined new to the group. I have been interested in these older rigs for quite some time, having at times owned the older tube types including the yaesu 101B.

I do have the question about wireing the mc60 to the radio or maybe a better question is what is a good Mic to fit the TS-520s it came without the mic cause it had been used for cw by the previous owner.

It has a super receive and the radio is real clean.

Thanks in advance for your comments
ki0gv
Mike

20130. RE: [TS-520_820_530_830] Kenwood TS-520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-10 05:30:51 UTC
From: david welker
Topic: 20129 Message: 20130

Welcome tothe group. An Astatic D104 or 10D work well with the Kenwoods if you can't find a Kenwood MC50 to go with your radio. 73 Dave

To: TS-520_820_530_830@yahoogroups.comFrom: ki0gv@...: Tue, 10 Feb 2009 04:20:58 +0000Subject: [TS-520_820_530_830] Kenwood TS-520S

Hello to the group, I have just recently purchased the TS-520s and just joined new to the group. I have been interested in these older rigs for quite some time, having at times owned the older tube types including the yaesu 101B.I do have the question about wireing the mc60 to the radio or maybe a better question is what is a good Mic to fit the TS-520s it came without the mic cause it had been used for cw by the previous owner.It has a super receive and the radio is real clean.Thanks in advance for your commentski0gvMike

_____
Windows Live?: Keep your life in sync.
http://windowslive.com/howitworks?ocid=TXT_TAGLM_WL_t1_allup_howitworks_022009

[Non-text portions of this message have been removed]

20131. TS520SE receive weak?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-10 07:12:12 UTC
From: jimmyz2k
Topic: 20131 Message: 20131

I have owned this ts520se for about 3 years now.This group has helped me through quite a bit.Just a question for those familiar with this rig.When you select the 1.8 mhz band,what is the usable frequency bandwidth on the receiver side?Mine seems to become useless after about 2.1(mhz).Is this normal?Besides my meter does not read properly since I have owned this rig.How exactly does the JJY WWV selection work?I get nothing.Otherwise,this radio has been good to me.Noticed some poor soldering on a transformer,it caused some audio/RX issues.Moving the wires clearly acted to be a problem.I re soldered these 4 wires and the RX is terrific.All 4 of these wires were together on one transformer terminal.
Jim,N2NXZ

20132. RE:Kenwood TS-520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-10 09:57:34 UTC
From: vu2jmx
Topic: 20129 Message: 20132

Welcome to the group. I'm new to the group too, even though this is my second classic TS-520 after a gap of nearly 15 years. Sold my first rig because I found it difficult to move it around in my travelling job.

I've recently tried the Astatic D104M6 and a YD-148 with good results. Nothing like a matching classic MC-50 if you can find one.
Why spend extra on the MC-60, unless you already have one.

There's some interesting info on a MC-60 here
http://groups.yahoo.com/group/KenwoodMics/message/293

I understand there was an error in the original wiring. Here's the pin out of MC-60.
http://homepage.ntlworld.com/rg4wpw/mc602.html

Maybe the others on this group can give you more info.

73,
Aron.

--- On Tue, 2/10/09, david welker <k3si@hotmail.com> wrote:

> From: david welker <k3si@...>
> Subject: RE: [TS-520_820_530_830] Kenwood TS-520S
> To: ts-520_820_530_830@yahoogroups.com
> Received: Tuesday, February 10, 2009, 12:30 AM
> Welcome tothe group. An Astatic D104 or 10D work well with
> the Kenwoods if you can't find a Kenwood MC50 to go with
> your radio. 73 Dave
>
> To: TS-520_820_530_830@yahoogroups.comFrom:
> ki0gv@...: Tue, 10 Feb 2009 04:20:58 +0000Subject:
> [TS-520_820_530_830] Kenwood TS-520S
>
>
>
> Hello to the group, I have just recently purchased the
> TS-520s and just joined new to the group. I have been
> interested in these older rigs for quite some time, having
> at times owned the older tube types including the yaesu
> 101B.I do have the question about wireing the mc60 to the
> radio or maybe a better question is what is a good Mic to
> fit the TS-520s it came without the mic cause it had been
> used for cw by the previous owner.It has a super receive and
> the radio is real clean.Thanks in advance for your
> commentski0gvMike
>
>

>
>
>
>
> ---
> Windows Live™: Keep your life in sync.
> http://windowslive.com/howitworks?ocid=TXT_TAGLM_WL_t1_allup_howitworks_022009
>
> [Non-text portions of this message have been removed]
>
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> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

Be smarter than spam. See how smart SpamGuard is at giving junk email the boot with the All-new Yahoo! Mail. Click on Options in Mail and switch to New Mail today or register for free at http://mail.yahoo.ca

20133. Re: [TS-520_820_530_830] Kenwood TS-520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-10 10:30:21 UTC
From: Gordon J. C. Pearce MM3YEQ
Topic: 20129 Message: 20133

On Tue, 2009-02-10 at 04:20 +0000, Michael wrote:
>
> I do have the question about wireing the mc60 to the radio or maybe a
> better question is what is a good Mic to fit the TS-520s it came
> without the mic cause it had been used for cw by the previous owner.

At the risk of attracting "QRO CBer" comments from the peanut gallery, I find the MC-10 handheld mike perfectly okay. I don't have a lot of clear desk space in the shack, so a desk mike is less suitable for me. Just about any high-impedance mike will do. You could use a low-impedance one with a matching transformer or a simple preamp.

What kind of mike you use doesn't matter. How you use it does. If you can have a QSO with someone that you know ("wait, you mean you don't sound like a frog in a tin bucket in real life?"), and find the best speaking distance and mike gain settings, then that will help your transmitted audio far more than any amount of expensive toys.

There seems to be a fashion for using relatively inexpensive "studio" mikes for HF. They're okay, but you don't need anything that complicated.

> It has a super receive and the radio is real clean.

They sound great, don't they? An external speaker makes a huge difference, though - the little 3" speaker screwed to the metal lid isn't ideal. I drastically improved the rather tinny and naff sound quality from my TS520 by, uhm, moving the ATU so it wasn't blocking the internal speaker's grill... Like I said, space is a little tight in the shack at MM3YEQ ;-)

Gordon

20134. Re: [TS-520_820_530_830] Kenwood TS-520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-10 16:13:34 UTC
From: martin
Topic: 20129 Message: 20134

Hi Michael. You have a good radio there. Unless you already have an MC-60, I would go with the MC-50. Some folks that I have talked to think that they are a little pricey, but the MC-50 is definitely worth it.

What I have found with the Kenwood TS-X20 and TS-X30 series radios over the years, is that any decent mic will sound good. How you talk into the mic, and room acoustics do have an effect on how you sound. I have an article written by NF5B, a good friend and a professional musician who does his own recording and production. If anyone is interested, I can post it to the files area.

TTYL

Michael wrote:
> Hello to the group, I have just recently purchased the TS-520s and just
> joined new to the group. I have been interested in these older rigs
> for quite some time, having at times owned the older tube types
> including the yaesu 101B.
>
> I do have the question about wireing the mc60 to the radio or maybe a
> better question is what is a good Mic to fit the TS-520s it came
> without the mic cause it had been used for cw by the previous owner.
>
> It has a super receive and the radio is real clean.
>
> Thanks in advance for your comments
> ki0gv
> Mike
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

20135. New to the Group and to Kenwood Hybrid Transceivers

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-10 16:35:23 UTC
From: paulch1956
Topic: 20135 Message: 20135

Greetings to the Group,

I have enjoyed reading the posts on this Group for the last few weeks. The knowledge and willingness to share information and assistance is very impressive. I just purchased a Kenwood TS 830S Gold Edition with an SP-230 speaker which I pick-up on Thursday. This is my first venture into owning an operating a Hybrid transceiver. I look forward to learning to operate and enjoying the rig. I think it's going to move my FT-897D to back-up status. I look forward to continuing to read and learn from the posts of other owners of the TS 830S.
Thank you for having such a great resource for owners of Kenwood Hybrid Transceivers!

73,

Paul
WQ4A
Gainesville Florida

20136. New file uploaded to TS-520_820_530_830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-10 16:55:31 UTC
From: TS-520_820_530_830@yahoogroups.com
Topic: 262 Message: 20136

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the TS-520_820_530_830
group.

File : /Stationaudio.pdf
Uploaded by : kb0hae1 <kb0hae@...>
Description : An article about improving transmit and receive audio

You can access this file at the URL:
http://groups.yahoo.com/group/TS-520_820_530_830/files/Stationaudio.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.htmlfiles

Regards,

kb0hae1 <kb0hae@...>

20137. Re: Kenwood TS-520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-10 17:47:38 UTC
From: w5rkl
Topic: 20129 Message: 20137

When it comes to microphones, impedance matching is very
important. A low impedance microphone can result in low audio output
from the speech amplifier. Low audio output from the speech amplifier
will also result in low final amplifier output. Turning up the MIC
gain to compensate for a microphone impedance mismatch and low final
amplifier output can lead to distortion in the speech amplifier's
output that can easily produce splatter to adjacent frequencies.

The MC-50 is a good microphone since it matches the 520s microphone
impedance.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@...> wrote:
>
> Hi Michael. You have a good radio there. Unless you already have an
> MC-60, I would go with the MC-50. Some folks that I have talked to
> think that they are a little pricey, but the MC-50 is definitely worth
> it.
>
> What I have found with the Kenwood TS-X20 and TS-X30 series radios
> over the years, is that any decent mic will sound good. How you talk
> into the mic, and room acoustics do have an effect on how you sound.
> I have an article written by NF5B, a good friend and a professional
> musician who does his own recording and production. If anyone is
> interested, I can post it to the files area.
>
> TTYL
>
> Michael wrote:
> > Hello to the group, I have just recently purchased the TS-520s and
just
> > joined new to the group. I have been interested in these older rigs
> > for quite some time, having at times owned the older tube types
> > including the yaesu 101B.
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> > I do have the question about wireing the mc60 to the radio or
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> > better question is what is a good Mic to fit the TS-520s it came
> > without the mic cause it had been used for cw by the previous owner.
> >
> > It has a super receive and the radio is real clean.
> >
> > Thanks in advance for your comments

> > ki0gv
> > Mike
> >
> >
>
> --
> CUL8R
>
> KBOHAE kb0hae@... Martin Campbell
>
> A Satisfied Sidux Linux user! To get Sidux go to:
> www.sidux.com/index.html
> "Protect your digital freedom and privacy, eliminate DRM, learn more
> at http://www.defectivebydesign.org/what_is_drm"
>

20138. Band switch Wafer Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-10 21:29:31 UTC
From: Gordon
Topic: 20138 Message: 20138

I am looking for the #6 wafer for the Band switch on the TS-830S.
It is on the RF board and is the sixth one back from the front of the
Board.
Anyone have an RF board they are parting out?
Please contact me OFF-list.
thanks,
Gordon
N6WK at n6wk.com

20139. Kenwood Microphones

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-10 23:47:09 UTC
From: Michael
Topic: 20139 Message: 20139

I really appreciate all the comments I received on the TS-520S. I can see now I'm in the market to get an MC-50 microphone, I didnt want to rewire my MC-60 for it cause that one is wired for my TS-2000. If somebody has one for sell at a good price, I maybe interested if not then I may go to ebay.

Thanks
ki0gv
Mike

20140. Re: Kenwood Microphones

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-11 00:48:37 UTC
From: boat.anchor
Topic: 20139 Message: 20140

Mike
The MC-50 is one of the items I watch on Flea Bay and over the past
couple months it has ranged in price from USD52-USD126.
GL
Barry

--- In TS-520_820_530_830@yahoogroups.com, "Michael" <ki0gv@...> wrote:
>
> I really appreciate all the comments I received on the TS-520S. I
can
> see now I'm in the market to get an MC-50 microphone, I didnt want to
> rewire my MC-60 for it cause that one is wired for my TS-2000. If
> somebody has one for sell at a good price, I maybe interested if not
> then I may go to ebay.
>
>
> Thanks
> ki0gv
> Mike
>

20141. remote VFO connector

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-11 01:04:58 UTC
From: Angelica
Topic: 20141 Message: 20141

I was wondering if anyone had a spare remote vfo connector for a kenwood TS 520S? He checked k4ee's website but said it wasn't there. One came with it but i misplaced it (which I didnt mind since it wasn't the greatest).

73 Angie KD8HMS

20142. Re: [TS-520_820_530_830] Re: Kenwood Microphones

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-11 01:11:58 UTC
From: Michael
Topic: 20139 Message: 20142

Barry are you referring to Ebay ?

Mike

--- On Tue, 2/10/09, boat.anchor <boat.anchor@...> wrote:

> From: boat.anchor <boat.anchor@...>
> Subject: [TS-520_820_530_830] Re: Kenwood Microphones
> To: TS-520_820_530_830@yahoogroups.com
> Date: Tuesday, February 10, 2009, 6:48 PM
> Mike
> The MC-50 is one of the items I watch on Flea Bay and over
> the past
> couple months it has ranged in price from USD52-USD126.
> GL
> Barry
>
> --- In TS-520_820_530_830@yahoogroups.com,
> "Michael" <ki0gv@...> wrote:
> >
> > I really appreciate all the comments I received on the
> TS-520S. I
> can
> > > see now I'm in the market to get an MC-50
> microphone, I didnt want to
> > > rewire my MC-60 for it cause that one is wired for my
> TS-2000. If
> > > somebody has one for sell at a good price, I maybe
> interested if not
> > > then I may go to ebay.
> > >
> > >
> > > Thanks
> > > ki0gv
> > > Mike
> > >

20143. Re: [TS-520_820_530_830] remote VFO connector

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-11 01:45:55 UTC
From: Ruben Echevarria
Topic: 20141 Message: 20143

There's a guy on ebay goes by "CW Man" sells custom made cables for most all rigs.

Ruben Echevarria KA2HHB
SKCC #2132 EPC#3390
10-10 International Club #33308
30Meter Digital Group #1148

From: Angelica <arkch1p@...>
To: TS Kenwood <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, February 10, 2009 8:04:58 PM
Subject: [TS-520_820_530_830] remote VFO connector

I was wondering if anyone had a spare remote vfo connector for a kenwood TS 520S? He checked k4ee's website but said it wasn't there. One came with it but i misplaced it (which I didnt mind since it wasn't the greatest).

73 Angie KD8HMS

[Non-text portions of this message have been removed]

20144. Re:Kenwood TS-520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-11 01:49:51 UTC
From: Rich Jones
Topic: 20129 Message: 20144

I have used Shure 444 desk microphones for many years with good results. They are plentiful and reasonable. Good luck, Rich

[Non-text portions of this message have been removed]

20145. RE: [TS-520_820_530_830] Kenwood Microphones

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-11 02:08:00 UTC
From: Dave wej
Topic: 20139 Message: 20145

If you can find them on ebay or where ever, Kenwood had adapters available for 8 pin to 4 pin. I find even making one up is best

Look around for a mj-84 kenwood adapter..

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Michael
Sent: February 10, 2009 6:47 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Kenwood Microphones

I really appreciate all the comments I received on the TS-520S. I can see now I'm in the market to get an MC-50 microphone, I didnt want to rewire my MC-60 for it cause that one is wired for my TS-2000. If somebody has one for sell at a good price, I maybe interested if not then I may go to ebay.

Thanks
ki0gv
Mike

[Non-text portions of this message have been removed]

20146. Re: [TS-520_820_530_830] Kenwood Microphones

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-11 02:22:08 UTC
From: Ruben Echevarria
Topic: 20139 Message: 20146

This gentleman may have what you're searching for:

http://stores.ebay.com/CW-MAN-Ham-Radio-Gear-and-Supplies_W0QQssPageNameZstrkQ3amefsxQ3asstQQtZkm
Ruben Echevarria KA2HHB
SKCC #2132 EPC#3390
10-10 International Club #33308
30Meter Digital Group #1148

From: Dave wej <ve3wej@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, February 10, 2009 9:08:00 PM
Subject: RE: [TS-520_820_530_830] Kenwood Microphones

If you can find them on ebay or where ever, Kenwood had adapters available
for 8 pin to 4 pin. I find even making one up is best

Look around for a mj-84 kenwood adapter..

From: TS-520_820_530_ 830@yahoogroups. com
[mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of Michael
Sent: February 10, 2009 6:47 PM
To: TS-520_820_530_ 830@yahoogroups. com
Subject: [TS-520_820_ 530_830] Kenwood Microphones

I really appreciate all the comments I received on the TS-520S. I can
see now I'm in the market to get an MC-50 microphone, I didnt want to
rewire my MC-60 for it cause that one is wired for my TS-2000. If
somebody has one for sell at a good price, I maybe interested if not
then I may go to ebay.

Thanks
ki0gv
Mike

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

20147. Re: Kenwood Microphones

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-11 03:11:48 UTC
From: boat.anchor
Topic: 20139 Message: 20147

Mike
That would be it.
The world's biggest flea market.
regards
Barry

--- In TS-520_820_530_830@yahoogroups.com, Michael <ki0gv@...> wrote:
>
> Barry are you referring to Ebay ?
>
> Mike
>
>
> --- On Tue, 2/10/09, boat.anchor <boat.anchor@...> wrote:
>
> > From: boat.anchor <boat.anchor@...>
> > Subject: [TS-520_820_530_830] Re: Kenwood Microphones
> > To: TS-520_820_530_830@yahoogroups.com
> > Date: Tuesday, February 10, 2009, 6:48 PM
> > Mike
> > The MC-50 is one of the items I watch on Flea Bay and over
> > the past
> > couple months it has ranged in price from USD52-USD126.
> > GL
> > Barry
> >
> > --- In TS-520_820_530_830@yahoogroups.com,
> > "Michael" <ki0gv@> wrote:
> > >
> > > I really appreciate all the comments I received on the
> > TS-520S. I
> > can
> > > see now I'm in the market to get an MC-50
> > microphone, I didnt want to
> > > rewire my MC-60 for it cause that one is wired for my
> > TS-2000. If
> > > somebody has one for sell at a good price, I maybe
> > interested if not
> > > then I may go to ebay.
> > >
> > >
> > > Thanks
> > > ki0gv
> > > Mike
> > >

>

20148. Re: [TS-520_820_530_830] Kenwood Microphones

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-11 11:32:09 UTC
From: Ken Winterling
Topic: 20139 Message: 20148

I have a couple of those adapters but prefer to build an interface cable to reduce stress on the rig's connector. Now I only use the adapters in the shop.

Ken, WA2LBI

On Tue, Feb 10, 2009 at 21:08, Dave wej <ve3wej@...> wrote:

> If you can find them on ebay or where ever, Kenwood had adapters available
> for 8 pin to 4 pin. I find even making one up is best
>
> Look around for a mj-84 kenwood adapter..
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Michael
> Sent: February 10, 2009 6:47 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Kenwood Microphones
>
>
>
> I really appreciate all the comments I received on the TS-520S. I can
> see now I'm in the market to get an MC-50 microphone, I didnt want to
> rewire my MC-60 for it cause that one is wired for my TS-2000. If
> somebody has one for sell at a good price, I maybe interested if not
> then I may go to ebay.
>
> Thanks
> ki0gv
> Mike
>

[Non-text portions of this message have been removed]

20149. Re: [TS-520_820_530_830] New to the Group and to Kenwood Hybrid Transceivers

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-11 15:55:18 UTC
From: Jerry J Seay
Topic: 20135 Message: 20149

Great radio! I have owned three of them. One that I bought from eBay was heavily modified and the mods were done badly, so it became parts for the other two. I have gotten lots of comments about my signal and have been asked several times if I am running an amp, which I am not. Great receiver as well.

Learn all you can and follow good tuning practices and maintenance and this radio will last 30 years or more.

73's

Jerry, KE5PUT

On Tuesday 10 February 2009 10:35:23 paulch1956 wrote:
> Greetings to the Group,
>
> I have enjoyed reading the posts on this Group for the last few weeks.
> The knowledge and willingness to share information and assistance is
> very impressive. I just purchased a Kenwood TS 830S Gold Edition with
> an SP-230 speaker which I pick-up on Thursday. This is my first venture
> into owning an operating a Hybrid transceiver. I look forward to
> learning to operate and enjoying the rig. I think it's going to move my
> FT-897D to back-up status. I look forward to continuing to read and
> learn from the posts of other owners of the TS 830S.
> Thank you for having such a great resource for owners of Kenwood Hybrid
> Transceivers!
>
> 73,
>
> Paul
> WQ4A
> Gainesville Florida

20150. 'WTB VFO-230 or DFC-230'

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-11 18:14:33 UTC
From: archer5949
Topic: 20150 Message: 20150

Looking for a vfo for my TS-830. If you have one to part with please
let me know.

73,
Kevin
kn0a@...

20151. Switch

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-11 06:21:40 UTC
From: Paul Andreasen
Topic: 20151 Message: 20151

I have a TS-520SE with the paddle for the Standby switch (Send/Rec) broken. The switch works if you poke something in to move it, but I would like to fix it. I believe the "paddle" front of the switch is generic to many Kenwoods, and not an actual part of the switch. Anyone have one they will part with?
Paul, K1JAN

20152. TS-520 and TS-820 Drift fix

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-11 19:14:23 UTC
From: w5rkl
Topic: 20152 Message: 20152

I have been experiencing drift in my TS-820, a lot more than it should have. Replacing the 14VDC filter caps, two 2200ufd 25VDC on the relay board, helped some but the 820 still drifted more than I cared for.

Monitoring the 14VDC supply showed the 14VDC supply was very stable but the 9VDC was another story, as much as .95VDC increase was noted over a 30 minute period. This resulted in a significant drift in the 820. This instability in the 9VDC supply also affects the receiver's 3.3VDC bias supply as well.

I traced the instability in the 9VDC supply to D5 on the 820's AF-AVR Unit. Replaced D5 with a 1N5234B, 6.2VDC 500ma 1/2 watt zener, and monitored the 9VDC supply for 30 minutes. The 9VDC supply showed a maximum increase in voltage of .01VDC, a drastic improvement from the .95VDC prior to replacing D5.

The TS-520 uses the same 9VDC regulator circuit. The diode is "D3" in the 520 and is located on the FIX CH AVR Unit. I have not checked the 520S or the 520SE but I would suspect it's the same on both models. Check the model's schematic to be sure.

73
Mike
W5RKL

20153. Will a VCO-820 work on a TS-520SE?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-12 02:07:53 UTC
From: robin_joe2000
Topic: 20153 Message: 20153

I may be able to purchase a VCO-820, but am wondering if it will work with my TS520SE? I have found info on the web suggesting this will work, but looking for actual feedback from someone.

Thanks!

Joe N9OK

20154. Re: TS-520 and TS-820 Drift fix

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-12 02:05:18 UTC
From: robin_joe2000
Topic: 20152 Message: 20154

Good info, but I missed 1 key piece of information: Was the drift fixed by doing this?

Thanks!

Joe N9OK

20155. Re: Will a VCO-820 work on a TS-520SE?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-12 02:56:41 UTC
From: al_kozakiewicz
Topic: 20153 Message: 20155

The schematics for both units are readily available online.

The VCO assembly is the same for both units. The control and LED assemblies are different part numbers but the schematics look to be the same. The VFO-820 has a single dial light; the VFO-520 has two. The 9 pin connector appears to be wired identically.

Looks like it'd work to me.

Al
AB2ZY

--- In TS-520_820_530_830@yahoogroups.com, "robin_joe2000" <n9ok@...> wrote:
>
> I may be able to purchase a VCO-820, but am wondering if it will work
> with my TS520SE? I have found info on the web suggesting this will
> work, but looking for actual feedback from someone.
>
> Thanks!
>
> Joe N9OK
>

20156. Re: TS-520 and TS-820 Drift fix

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-12 04:04:47 UTC
From: w5rkl
Topic: 20152 Message: 20156

Hi Joe,

Yes, it appears the drift has been fixed. I may end up replacing Q7, a 2SA496 (Y) which I initially considered replacing along with D5.

The 820 needs some additional work. I found the Rectifier Unit's 210 AC source is not connected to the right transformer terminal, it is connected to the AC300 transformer terminal. I have no idea why this was done. I don't remember a technical bulletin covering this. I'm not the original owner of this 820, I bought it on eBay about 8 years ago and I'm slowly finding and fixing problems it has. It needs a complete alignment which will be the last step.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "robin_joe2000" <n9ok@...> wrote:
>
> Good info, but I missed 1 key piece of information: Was the drift
> fixed by doing this?
>
> Thanks!
>
> Joe N9OK
>

20157. Update on Microphone

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-12 06:05:02 UTC
From: Michael
Topic: 20157 Message: 20157

To the group, An update on the Microphone. I decided to go ahead and wire my MC-60 up to the Kenwood TS-520S and Dang, Man talking about Kenwood Audio, It sounds as though the MC-60 is a perfect impedence match to the radio. My TS-2000 comes back from the shop on thursday the 13th but I'm going to keep this Rig on the desk for a couple of days, I'm almost camparing the receive and transmit to that of the TS-2000, it sounds that good, but just not quite. Can't go that far.

Thanks for all the replies.

73
ki0gv
Mike

20158. TS 830s: Problem with VOX SOLVED!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-12 09:19:36 UTC
From: Fabio Scherrer
Topic: 20158 Message: 20158

Hello Mike, hello Adrian and to all who wanted to help me!
I am very hapy to announce that the problem with VOX has been solved! Congratulations and thanks soooo much to Mike and Adrian: you were right, the problem was at Resistor R13 in the rectifier unit (at STB the Voltage was almost zero, after replacing back to the correct 108 VDC). Even if no signs of stress or damages, the resistor was no more working correct. It is been easy job to replace it and, Mike, thanks again for caution information about safety with high voltages in the unit. I did the job by a very experienced friend of mine (HB9CXZ) and he shown me where to take care and where discharge the capacitors in order to work without risks.
At the moment the TS830s is working absolutely properly. Tomorrow I will receive a YG-455C CW Filter and, together with YK-88C

It should do a good job. Another thing I will "improve" is to connect a 2nd receiver in order to be able to work on split, because I have no External VFO such the VFO-230. K5D, Desecheo, should start their activity soon, I cannot expect to work them with the just 2 KHz RIT/XIT ... I guess they will work with huge splits, so a second receiver is absolutely needed to have a chance with them.

Once more, let me thank very much all who tried to help me solve the VOX problem. I have been really surprised, after posting my problem, about how many of you wanted to help me! Just great!

Mike: did you get my "private" mail a few days ago?

Wishing to everybody a very nice day,
Best 73's from Switzerland, HB9FAP, Fabio

From: w5rkl <w5rkl@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, February 8, 2009 2:17:55 PM
Subject: [TS-520_820_530_830] Re: TS 830s: Problem with VOX

Hello Fabio and Adrian,

I agree with Adrian, resistor R13 (100K) can easily prevent the
sidetone from operating. Good job Adrian.

Be very careful when measuring voltages in the TS-830 with the power
cable plugged into the wall. The Rectifier Unit PC board has very high
voltages which can KILL YOU!! BE SAFE!!! Take your time, do not be in
a hurry.

Unplug the TS-830 from the wall outlet, remove the covers, turn the
TS-830 so the bottom is facing up and the front panel is facing you.

Locate the Rectifier Unit PC board which is to the "left" of the power transformer. Looking down at the Rectifier Unit PC board the "STB" pin is just forward of the relay and slightly to the left. Resistor R13 is mounted just forward of the relay.

Plug the TS-830 power cable into the wall outlet and turn the 830 on. Measure the voltage on the "STB" pin. If R13 is open or bad there will be very little or zero volts on the "STB" pin.

Again, be very careful measuring voltages on the Rectifier Unit PC board. There is high AC and DC voltages on this board!! BE SAFE!!.

Again, Adrian, good job!!

73
Mike
W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, Adrian Ellison <ellisona@.. .> wrote:
>
> Hello again Fabio,
>
> The side tone not working is the reason that the VOX isn't working on CW as Mike correctly states.
>
> I've seen this before on a TS-830 and in that case it was caused by loss of the STB voltage, R13 (100k ohms) on the rectifier board was open circuit.
>
> The STB voltage should be somewhere around 100 volts so you can easily check that, if it's around zero volts then check R13 on the rectifier board.
>
> I remember this fault well, there was no obvious sign of stress on the resistor and no obvious cause of its failure, simply replacing the resistor did the trick.
>
> Hope this helps Fabio,
>
> 73 de Adrian / ZS1TTZ
>
> On Saturday 07 February 2009 22:23:01 Fabio Scherrer wrote:
>
> > it understood.. .), so in other words, on RX when I am keing the CW, I don't
> > hear any tone in the "background" .
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

20159. Re: [TS-520_820_530_830] TS 830s: Problem with VOX SOLVED!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-12 16:52:52 UTC
From: Adrian Ellison
Topic: 20158 Message: 20159

Fantastic and well done Fabio, very glad we could help.

73 de Adrian / ZS1TTZ

> I am very hapy to announce that the problem with VOX has been solved!

20160. new owner

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-12 17:20:51 UTC
From: jefeickert
Topic: 20160 Message: 20160

I just bought a TS-820S need cleaned. Do I use compress air can? like the one they use on Computer key boards?
also I need to know does the TS-820S need external . power supply?
I just ordered from a private seller. I know some Kenwood and other brands need external power supply.

JIM

20161. Re: new owner

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-12 17:47:45 UTC
From: w5rkl
Topic: 20160 Message: 20161

The TS-820 has a built in 120/240VAC power supply.

Did you receive the power cable that plugs into the rear?

Cleaning a TS-820S requires more than just using canned air. The
different switches and potentiometers need cleaning with contact
cleaner and non-abrasive cleaner for the cabinets, knobs, and front
panel and some of the cleaners you will needs.

If you have never cleaned and/or repaired a piece of ham gear before,
may I recommend you find a local ham to help you. This is especially
true with the TS-820S since it is quite easy to damage the radio
during cleaning if you are not careful.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "jefeickert"
<jefeickert@...> wrote:
>
> I just bought a TS-820S need cleaned. Do I use compress air can?
like the one they use
> on Computer key boards?
> also I need to know does the TS-820S need external . power supply?
> I just ordered from a private seller. I know some Kenwood and other
brands need external
> power supply.
>
> JIM
>

20162. Re: TS 830s: Problem with VOX SOLVED!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-12 18:00:30 UTC
From: w5rkl
Topic: 20158 Message: 20162

Hello Fabio,

That is great, I'm really glad to hear the 830 is fixed.

A note to Adrian, good job pointing out the resistor in the Rectifier Unit. It was clear that resistor prevented the sidetone oscillator from working. Resistor can "look" good. As the ole saying goes, "looks can be deceiving".

Fabio, the last e-mail I received from you was dated February 7 which also was directed to the forum. In that e-mail, you described your problem in detail. I have not received any e-mails after that one.

Again, congratulations on fixing your 830.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Fabio Scherrer <hb9fap@...> wrote:
>
> Hello Mike, hello Adrian and to all who wanted to help me!
> I am very hapy to announce that the problem with VOX has been solved! Congratulations and thanks soooo much to Mike and Adrian: you were right, the problem was at Resistor R13 in the rectifier unit (at STB the Voltage was almost zero, after replacing back to the correct 108 VDC). Even if no signs of stress or damages, the resistor was no more working correct. It is been easy job to replace it and, Mike, thanks again for caution information about safety with high voltages in the unit. I did the job by a very experienced friend of mine (HB9CXZ) and he shown me where to take care and where discharge the capacitors in order to work without risks.
> At the moment the TS830s is working absolutely properly. Tomorrow I will receive a YG-455C CW Filter and, together with YK-88C
>
> It should do a good job. Another thing I will "improve" is to connect a 2nd receiver in order to be able to work on split, because I have no External VFO such the VFO-230. K5D, Desecheo, should start their activity soon, I cannot expect to work them with the just 2 KHz RIT/XIT ... I guess they will work with huge splits, so a second receiver is absolutely needed to have a chance with them.
>
> Once more, let me thank very much all who tried to help me solve the VOX problem. I have been really surprised, after posting my problem, about how many of you wanted to help me! Just great!

>
> Mike: did you get my "private" mail a few days ago?
>
> Wishing to everybody a very nice day,
> Best 73's from Switzerland, HB9FAP, Fabio
>
>
> ________________________________
> From: w5rkl <w5rkl@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, February 8, 2009 2:17:55 PM
> Subject: [TS-520_820_530_830] Re: TS 830s: Problem with VOX
>
>
> Hello Fabio and Adrian,
>
> I agree with Adrian, resistor R13 (100K) can easily prevent the
> sidetone from operating. Good job Adrian.
>
> Be very careful when measuring voltages in the TS-830 with the power
> cable plugged into the wall. The Rectifier Unit PC board has very high
> voltages which can KILL YOU!! BE SAFE!!! Take your time, do not be in
> a hurry.
>
> Unplug the TS-830 from the wall outlet, remove the covers, turn the
> TS-830 so the bottom is facing up and the front panel is facing you.
>
> Locate the Rectifier Unit PC board which is to the "left" of the power
> transformer. Looking down at the Rectifier Unit PC board the "STB" pin
> is just forward of the relay and slightly to the left. Resistor R13 is
> mounted just forward of the relay.
>
> Plug the TS-830 power cable into the wall outlet and turn the 830 on.
> Measure the voltage on the "STB" pin. If R13 is open or bad there will
> be very little or zero volts on the "STB" pin.
>
> Again, be very careful measuring voltages on the Rectifier Unit PC
> board. There is high AC and DC voltages on this board!! BE SAFE!!.
>
> Again, Adrian, good job!!
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Adrian Ellison
> <ellisona@ .> wrote:
> >
> > Hello again Fabio,
> >

> > The side tone not working is the reason that the VOX isn't working
> on CW as Mike correctly states.
> >
> > I've seen this before on a TS-830 and in that case it was caused by
> loss of the STB voltage, R13 (100k ohms) on the rectifier board was
> open circuit.
> >
> > The STB voltage should be somewhere around 100 volts so you can
> easily check that, if it's around zero volts then check R13 on the
> rectifier board.
> >
> > I remember this fault well, there was no obvious sign of stress on
> the resistor and no obvious cause of its failure, simply replacing the
> resistor did the trick.
> >
> > Hope this helps Fabio,
> >
> > 73 de Adrian / ZS1TTZ
> >
> > On Saturday 07 February 2009 22:23:01 Fabio Scherrer wrote:
> >
> > > it understood.. .), so in other words, on RX when I am keing the
> CW, I don't
> > > hear any tone in the "background" .
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

20163. AT-250

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-12 18:39:20 UTC
From: latetomemphis
Topic: 5719 Message: 20163

Hi All,

I have a TS-820, and just ordered an AT-250 auto antenna tuner.

Does anyone have experience with utilizing this tuner with my rig, and can they advise me as to how to configure, or put it to work?

Thanks in advance!

Jeff, KB3QMT

20164. Re: AT-250

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-12 19:55:47 UTC
From: w5rkl
Topic: 5719 Message: 20164

Unfortunately the TS-820 is not "directly" compatible with the AT-250
and the 820 cannot "automatically" control the AT-250.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "latetomemphis"
<latetomemphis@...> wrote:
>
> Hi All,
>
> I have a TS-820, and just ordered an AT-250 auto antenna tuner.
>
> Does anyone have experience with utilizing this tuner with my rig, and
> can they advise me as to how to configure, or put it to work?
>
> Thanks in advance!
>
> Jeff, KB3QMT
>

20165. TS-530S Paddle

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-12 20:31:23 UTC
From: Gordon
Topic: 20165 Message: 20165

I need the Paddle for a TS-530S send/Receive switch.
Who has one I can buy?

Thanks,
Gordon
N6WK

20166. new owner

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-12 21:20:51 UTC
From: jefeickert
Topic: 20160 Message: 20166

Does the Kenwood TS-820S need a power supply and if so what model etc. JIM

20168. Re: [TS-520_820_530_830] TS-820 coming out of the attic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-12 23:12:11 UTC
From: jsloss
Topic: 20168 Message: 20168

Alex: I'm just a few miles from you and will be glad to assist. Please reply direct.

Joe k7mks@...

[Non-text portions of this message have been removed]

20169. Re: [TS-520_820_530_830] TS-820 coming out of the attic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-12 23:23:06 UTC
From: Gordon J. C. Pearce MM3YEQ
Topic: 20168 Message: 20169

On Thu, 2009-02-12 at 22:29 +0000, cougmedic wrote:
> Hello everyone.
>
> My father in law has loaned me his TS-820 which has been in storage
> for about 5 years. I'm having trouble getting it setup. I'm following
> the manual but getting stuck at section 4, transmitter tuning.
>
> The band selector is 28, and mode is USB, and the meter is at IP. When
> I flip the switch to SEND I get 0 deflection on the meter. I've tried
> turning the BIAS knob in back with no change.
>
> I'm VERY new to HF and even more to radios of this vintage. My first
> guess is that one or both of the final tubes are toast. Does this
> sound right?

First things first, is the heater switch on? Have you left it long
enough for the valves to warm up? What does the HT voltage read when
you switch to transmit?

Gordon

20170. Re: [TS-520_820_530_830] TS-820S new owner

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-13 00:03:28 UTC
From: Dave and Loraine
Topic: 20170 Message: 20170

Hi Jim,
What's your call?
The 820S is plugnplay. Built-in psu.
Just make sure the voltage is set correctly for your mains voltage before switch-on.
Good luck
Dave f4eyk

20171. vfo-230 no display

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-13 00:17:21 UTC
From: knocker308
Topic: 20171 Message: 20171

Hello everyone. My vfo230 started intermittently digits going out and finally no display. I printed a schematic but voltage readings are not clear enough to see. Does any body have a starting point to check where the problem may be? Any help please!!!!!! Dave Kc5ee

20172. Kenwood TS-520S Tubes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-13 01:36:35 UTC
From: Michael
Topic: 20172 Message: 20172

I am getting a spare set of tubes (6146 & 12by7a) for my TS-520S. I have found the Sylvania 6146W tubes (matched set) which should go right in, But the 12by7a Driver tube is a GE, Has anybody had any trouble out of the GE driver. I wanted the driver to be a sylvania also, but no luck yet finding one.

Thanks
Mike

20173. Re: AT-250

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-13 03:20:07 UTC
From: plungerdp
Topic: 5719 Message: 20173

Kenwood AT250

--- KD6LOM Rating: 5/5 Jul 4, 2008 15:02 Send this review
to a friend
AT-250 CAN BE USED WITH ANY TRANCEIVER: DO THIS MOD Time owned: more
than 12 months
This anto tuner was designed to work ONLY with the Kenwood TS-430 as a
"AUTO" tuner.(automatically selecting the band to be tuned) With the
proper cable to interface the TS-430 and the AT-250 the band to be
selected was done automatically, if the band selection on the tuner
was set to AUTO>

HOWEVER: the auto band selection function will ONLY work with the
TS-430, NOT with ANY OTHER TRANCEIVER

If used with any other tranceiver/transmitter You must MANUALLY select
the band on the tuner to be tuned. IN addition: a slight mod must be
done to allow the tuner to properly engage the tuner to tune. If not
done, the tuner will not properly tune and the power tune lights will
not give a proper indication.

MOD TO ALLOW USE OF TUNER WITH OTHER THEN KENWOOD TS-430:

Simply take off the top cover and place a JUMPER wire from pin 3 of
the interface plug to ground. this gives a gound to the PTT the tuner
needs to allow the tuner to operate properly. You do NOT need a cable
to give a PTT ground to the tuner. This will allow it to be used with
any transmitter.

Remember keep your tuning power to under 20 watts, while tuning.

I see numerous tuners up for sale, stating the tuner will not tune,
this is because they are trying to use the tuner in the AUTO mode with
out the use of the cable connected to a TS-430 or are trying to use it
on a generic tranceiver and have not grounded pin 3 on the interface
plug of the tuner.

AFTER MOD IS DONE HERE IS THE WAY TO USE THE TUNER WITH OTHER THEN A
KENWOOD TS-430
1) PUSH ON MAIN POWER BUTTON, you will see a green power light,

2) PUSH ON THE "TUNER" button on the lower left corner. You will see a
green light come on.

3) Select band you want to tune

4) Place meter switch to RF power, TX your RF into the tuner and set
for under 20 watts. NO more!

5) Then PUSH ON the "TUNE" button on the upper right corner.

6) Switch the meter to the SWR position.

7) Then TX into the tuner, You will see a RED light come on under the
TUNE button and here the motor tuning. It should stop within 15
seconds and lock the tuner. SWR will be indicated on the meter.

8) Turn OFF the TUNE button on the upper right corner of the unit.

That's all there is to it! very simple after you have done it a few times.

Hope this helps all out there.

73's KD6LOM

NOTE ON MY COMMENTS: The indicator lights are small 12 volt bulbs and
one LED , I have found several units with burt out bulbs. The lights
failing to come on, if burnt out will NOT effect the tuner from tuning
if you do the MOD I have documented. Just replace the bulbs when you
can with a like bulb or a LED

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Unfortunately the TS-820 is not "directly" compatible with the AT-250
> and the 820 cannot "automatically" control the AT-250.
>
> 73
> Mike
> W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "latetomemphis"
> <latetomemphis@> wrote:
> >
> > Hi All,
> >
> > I have a TS-820, and just ordered an AT-250 auto antenna tuner.
> >
> > Does anyone have experience with utilizing this tuner with my rig,
and
> > can they advise me as to how to configure, or put it to work?
> >
> > Thanks in advance!
> >
> > Jeff, KB3QMT
> >
>

20174. Re: TS-820 coming out of the attic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-13 03:21:50 UTC
From: cougmedic
Topic: 20168 Message: 20174

Well, things are going swimmingly except that I can't get any watt reading on 10m USB. If I switch to CW mode I put out about 100 watts.

Well, actually scratch that. CW now is only putting out 25W. I'm thoroughly confused...

20175. Re: [TS-520_820_530_830] vfo-230 no display

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-13 04:36:29 UTC
From: probe
Topic: 20171 Message: 20175

The ts-830s service manual has the vfo-230 service manual included. Try that, its a free download
located here:

http://www.n6wk.com/kenwood/TS-830_Service_manual.pdf

Steve B, wz7e

----- Original Message -----
From: knocker308
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, February 12, 2009 4:17 PM
Subject: [TS-520_820_530_830] vfo-230 no display

Hello everyone. My vfo230 started intermittently digits going out and
finally no display. I printed a schematic but voltage readings are not
clear enough to see. Does any body have a starting point to check
where the problem may be? Any help please!!!!!! Dave Kc5ee

[Non-text portions of this message have been removed]

20176. Re: [TS-520_820_530_830] Re: TS-820 coming out of the attic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-13 08:56:00 UTC
From: Walter A. Breining
Topic: 20168 Message: 20176

What are you using for a load and a wattmeter? Do you have a dummy load? Oe thing that I would look for is a intermittant coax.

Next, what does the meter read when in the HV position ?

Remember that to get a reading on SSB the mike gain must be turned up and there must be audio applied to the mike. Is the mike working ?

To get full output on CW the carrier control must be fully up.

On SSB with no audio applied are you able to adjust the idle current to 60 ma?

Vy 73, Walt N9WB

----- Original Message -----
From: cougmedic
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, February 12, 2009 10:21 PM
Subject: [TS-520_820_530_830] Re: TS-820 coming out of the attic

Well, things are going swimmingly except that I can't get any watt reading on 10m USB. If I switch to CW mode I put out about 100 watts.

Well, actually scratch that. CW now is only putting out 25W. I'm thoroughly confused...

20177. TS-830S good as new

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-13 14:56:32 UTC
From: dums2
Topic: 20177 Message: 20177

Just wanted to thank every one that helped me get my 830 up and going again. It has been a long labor of love. Gordon the RF board I bought from you is in and working fine. I doubted at the beginning that I would be able to get all the wafers and spacers back in where they belonged but
managed it in several evenings. Mike w5rkl is the one that helped me thru all this He has the patience of jobe. I have replaced the RF board the rectifier board and the transformer along with new electrolitic caps and various resistors. It would be my best guess that the trouble started in the rectifier board as it was badly discolored. any way she is working great now. Thanks to every one that respondered to my questions George K0GWD

20178. Re: Kenwood TS-520S Tubes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-13 15:08:32 UTC
From: al_kozakiewicz
Topic: 20172 Message: 20178

If you paid extra for the matched set, there was no need to. No advantage in a parallel AB amplifier.

The 12BY7A is a dirt grade dual triode that was originally designed for wideband amplifier use in television sets. There's certainly no advantage to picking Sylvania over GE in this (or any) application that I can think of.

My 820S has a GE driver and 2 Chinese 6146B's. Works great!

Al
AB2ZY

--- In TS-520_820_530_830@yahoogroups.com, "Michael" <ki0gv@...> wrote:
>
> I am getting a spare set of tubes (6146 & 12by7a) for my TS-520S. I
> have found the Sylvania 6146W tubes (matched set) which should go right
> in, But the 12by7a Driver tube is a GE, Has anybody had any trouble out
> of the GE driver. I wanted the driver to be a sylvania also, but no
> luck yet finding one.
>
> Thanks
> Mike
>

20179. FS - FIVE (5) GE 6146W's manufactured 1987 NOS NIB

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-13 16:48:43 UTC
From: Howard Weinstein
Topic: 20172 Message: 20179

Gang

I have a sleeve of five (5) GE 6146W's manufactured in 1987. They are NOS in their original boxes and excess to my needs.

$18.00 a piece or $90.00 for all five. I guarantee them unconditionally and if you are not happy with them for any reason return them to me within 7 days of receipt and I will refund the purchase price less cost of shipping.

Shipping via USPS Priority mail with Delivery Confirmation. Shipping costs below:

one tube - $6.25
two tubes - $7.45
three or
more tubes - $8.60

Payment to my PayPal account - k3hw@...

Payment received TODAY before 2:00 PM ships TODAY. Payment received TODAY after 3:00 PM ships Saturday morning 2/14/09.

Tnx es 73 de Howard K3HW

20180. Re: Kenwood TS-520S Tubes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-13 17:02:25 UTC
From: w5rkl
Topic: 20172 Message: 20180

I agree, spending extra money for matched tube sets for parallel amplifiers is a waste of money. If the amplifier operates in "push-pull" then yes, matched tubes are important.

Al, I'm not sure what you mean by "dirt grade dual triode" when referring to a 12BY7. The 12BY7 is a pentode not a dual triode.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "al_kozakiewicz" <akozak@...> wrote:
>
> If you paid extra for the matched set, there was no need to. No
> advantage in a parallel AB amplifier.
>
> The 12BY7A is a dirt grade dual triode that was originally designed
> for wideband amplifier use in television sets. There's certainly no
> advantage to picking Sylvania over GE in this (or any) application
> that I can think of.
>
> My 820S has a GE driver and 2 Chinese 6146B's. Works great!
>
> Al
> AB2ZY
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Michael" <ki0gv@>
> wrote:
> >
> > I am getting a spare set of tubes (6146 & 12by7a) for my TS-520S. I
> > have found the Sylvania 6146W tubes (matched set) which should go
> right
> > in, But the 12by7a Driver tube is a GE, Has anybody had any trouble
> out
> > of the GE driver. I wanted the driver to be a sylvania also, but no
> > luck yet finding one.
> >
> > Thanks
> > Mike
> >
>

20181. Re: Kenwood TS-520S Tubes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-13 18:13:49 UTC
From: al_kozakiewicz
Topic: 20172 Message: 20181

Senior moment. I was thinking about the 12AU7, AY7, AX7, AT7, AD7, AZ7 (and who knows how many countless others) family.

What's an A or B among friends?

Al
AB2ZY

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> I agree, spending extra money for matched tube sets for parallel
> amplifiers is a waste of money. If the amplifier operates in
> "push-pull" then yes, matched tubes are important.
>
> Al, I'm not sure what you mean by "dirt grade dual triode" when
> referring to a 12BY7. The 12BY7 is a pentode not a dual triode.
>
> 73
> Mike
> W5RKL
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "al_kozakiewicz"
> <akozak@> wrote:
> >
> > If you paid extra for the matched set, there was no need to. No
> > advantage in a parallel AB amplifier.
> >
> > The 12BY7A is a dirt grade dual triode that was originally
designed
> > for wideband amplifier use in television sets. There's certainly
no
> > advantage to picking Sylvania over GE in this (or any)
application
> > that I can think of.
> >
> > My 820S has a GE driver and 2 Chinese 6146B's. Works great!
> >
> > Al
> > AB2ZY
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Michael" <ki0gv@>

> > wrote:
> > >
> > > I am getting a spare set of tubes (6146 & 12by7a) for my TS-
520S. I
> > > have found the Sylvania 6146W tubes (matched set) which should
go
> > right
> > > in, But the 12by7a Driver tube is a GE, Has anybody had any
trouble
> > out
> > > of the GE driver. I wanted the driver to be a sylvania also,
but no
> > > luck yet finding one.
> > >
> > > Thanks
> > > Mike
> > >
> >
>

20182. Re: Kenwood TS-520S Tubes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-13 18:25:31 UTC
From: w5rkl
Topic: 20172 Message: 20182

Al,

Been there done that so many times I can't count..

Right now I'm trying to figure out why a previous owner of the 820S I have added a 120K 2 watt resistor in series with the bias pot, installed a 1K 1 watt resistor in series with the SG final connection and the SG switch, and wired the Rectifier Unit's 210 connection from the power transformers 230 tap to the 300 tap. The screen voltage will increase on the driver tube which will produce a high RF driving signal to the final amplifier, that I know. If it was done to achieve higher output power that was a bad thing to do in my opinion. But the series resistor with the bias pot and the series resistor in the SG final stage to the SG switch, I have no clue why they did this. I have some looking to do that's for sure.

There's always something to do with vintage ham gear. That's whats owning them so much fun!!

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "al_kozakiewicz" <akozak@...> wrote:
>
> Senior moment. I was thinking about the 12AU7, AY7, AX7, AT7, AD7, AZ7 (and who knows how many countless others) family.
>
> What's an A or B among friends?
>
> Al
> AB2ZY
>
> --- In TS-520_820_530_830@...m, "w5rkl" <w5rkl@> wrote:
> >
> > I agree, spending extra money for matched tube sets for parallel
> > amplifiers is a waste of money. If the amplifier operates in
> > "push-pull" then yes, matched tubes are important.
> >
> > Al, I'm not sure what you mean by "dirt grade dual triode" when
> > referring to a 12BY7. The 12BY7 is a pentode not a dual triode.
> >
> > 73
> > Mike
> > W5RKL

> >
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "al_kozakiewicz"
> > <akozak@> wrote:
> > >
> > > If you paid extra for the matched set, there was no need to. No
> > > advantage in a parallel AB amplifier.
> > >
> > > The 12BY7A is a dirt grade dual triode that was originally
> designed
> > > for wideband amplifier use in television sets. There's certainly
> no
> > > advantage to picking Sylvania over GE in this (or any)
> application
> > > that I can think of.
> > >
> > > My 820S has a GE driver and 2 Chinese 6146B's. Works great!
> > >
> > > Al
> > > AB2ZY
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Michael" <ki0gv@>
> > > wrote:
> > > >
> > > > I am getting a spare set of tubes (6146 & 12by7a) for my TS-
> 520S. I
> > > > have found the Sylvania 6146W tubes (matched set) which should
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> > > right
> > > > in, But the 12by7a Driver tube is a GE, Has anybody had any
> trouble
> > > out
> > > > of the GE driver. I wanted the driver to be a sylvania also,
> but no
> > > > luck yet finding one.
> > > >
> > > > Thanks
> > > > Mike
> > > >
> > >
> > >
> >
>

20183. Re: TS-820 coming out of the attic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-13 18:56:24 UTC
From: cougmedic
Topic: 20168 Message: 20183

--- "Walter A. Breining" wrote:
> What are you using for a load and a wattmeter? Do you have a dummy >
load? One thing that I would look for is a intermittant coax.
>
> Next, what does the meter read when in the HV position ?
>
> Remember that to get a reading on SSB the mike gain must be turned
up and
> there must be audio applied to the mike. Is the mike working ?
>
> To get full output on CW the carrier control must be fully up.
>
> On SSB with no audio applied are you able to adjust the idle current
to 60
> ma?
>
> Vy 73, Walt N9WB

Thanks for the reply, Walt.

I'm using a Yaesu FC-901 antenna tuner. It has a watt and SWR meter. I have both a dummy load and my G5RV Jr attached.

If I remember from when I check last night, the HV reads about 850.

Yesterday I had the mic gain turned up all the way and I tried a CQ on 10m. The watt meter barely came off the peg. Now this was probably 10 or so minutes after having the heater on. I turned the rig on just now and after letting it warm up for 1-2 min I can get almost 100 W of output read form the tunder, but it seems like the reading dies off towards the end of my CQ.

The mic just came out of storage as well. I haven't done any testing on it, nor am I sure of the correct way to do so.

On USB and the meter set to IP, the current shows just below 50mA, the same place I had adjusted to yesterday.

20184. Re: Kenwood TS-520S Tubes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-13 19:05:32 UTC
From: al_kozakiewicz
Topic: 20172 Message: 20184

Since it sounds like the preious owner(s) increased the B+ supply,
maybe they had to add those parts to be able to bring the bias into
spec?

That's assuming, of course, that there was a rational explanation to
begin with.

Al
AB2ZY

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Al,
>
> Been there done that so many times I can't count..
>
> Right now I'm trying to figure out why a previous owner of the 820S
I
> have added a 120K 2 watt resistor in series with the bias pot,
> installed a 1K 1 watt resistor in series with the SG final
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> and the SG switch, and wired the Rectifier Unit's 210 connection
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> the power transformers 230 tap to the 300 tap. The screen voltage
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> increase on the driver tube which will produce a high RF driving
> signal to the final amplifier, that I know. If it was done to
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> higher output power that was a bad thing to do in my opinion. But
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> series resistor with the bias pot and the series resistor in the SG
> final stage to the SG switch, I have no clue why they did this. I
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> some looking to do that's for sure.
>
> There's always something to do with vintage ham gear. That's whats
> owning them so much fun!!
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com, "al_kozakiewicz"
> <akozak@> wrote:
> >
> > Senior moment. I was thinking about the 12AU7, AY7, AX7, AT7,

AD7,
> > AZ7 (and who knows how many countless others) family.
> >
> > What's an A or B among friends?
> >
> > Al
> > AB2ZY
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > >
> > > I agree, spending extra money for matched tube sets for parallel
> > > amplifiers is a waste of money. If the amplifier operates in
> > > "push-pull" then yes, matched tubes are important.
> > >
> > > Al, I'm not sure what you mean by "dirt grade dual triode" when
> > > referring to a 12BY7. The 12BY7 is a pentode not a dual triode.
> > >
> > > 73
> > > Mike
> > > W5RKL
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> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "al_kozakiewicz"
> > > <akozak@> wrote:
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> > > > My 820S has a GE driver and 2 Chinese 6146B's. Works great!
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> > > >
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "Michael" <ki0gv@>
> > > > wrote:
> > > > >

> > > > > I am getting a spare set of tubes (6146 & 12by7a) for my TS-
> > 520S. I
> > > > > have found the Sylvania 6146W tubes (matched set) which
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> > go
> > > > right
> > > > > in, But the 12by7a Driver tube is a GE, Has anybody had any
> > trouble
> > > > out
> > > > > of the GE driver. I wanted the driver to be a sylvania
also,
> > but no
> > > > > luck yet finding one.
> > > > >
> > > > > Thanks
> > > > > Mike
> > > > >
> > > >
> > >
> >
>

20185. Re: TS-820 coming out of the attic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-13 19:07:26 UTC
From: al_kozakiewicz
Topic: 20168 Message: 20185

Isn't the bias supposed to be set to 60ma?

Al
AB2ZY

--- In TS-520_820_530_830@yahoogroups.com, "cougmedic"
<cougmedic@...> wrote:
>
> --- "Walter A. Breining" wrote:
> > What are you using for a load and a wattmeter? Do you have a
dummy >
> load? One thing that I would look for is a intermittant coax.
> >
> > Next, what does the meter read when in the HV position ?
> >
> > Remember that to get a reading on SSB the mike gain must be turned
> up and
> > there must be audio applied to the mike. Is the mike working ?
> >
> > To get full output on CW the carrier control must be fully up.
> >
> > On SSB with no audio applied are you able to adjust the idle
current
> to 60
> > ma?
> >
> > Vy 73, Walt N9WB
>
> Thanks for the reply, Walt.
>
> I'm using a Yaesu FC-901 antenna tuner. It has a watt and SWR
meter. I
> have both a dummy load and my G5RV Jr attached.
>
> If I remember from when I check last night, the HV reads about 850.
>
> Yesterday I had the mic gain turned up all the way and I tried a CQ
on
> 10m. The watt meter barely came off the peg. Now this was probably
10
> or so minutes after having the heater on. I turned the rig on just
now
> and after letting it warm up for 1-2 min I can get almost 100 W of
> output read form the tunder, but it seems like the reading dies off
> towards the end of my CQ.

>
> The mic just came out of storage as well. I haven't done any testing
> on it, nor am I sure of the correct way to do so.
>
> On USB and the meter set to IP, the current shows just below 50mA,
the
> same place I had adjusted to yesterday.
>

20186. Re: TS-820 coming out of the attic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-13 19:14:35 UTC
From: cougmedic
Topic: 20168 Message: 20186

---]"al_kozakiewicz" <akozak@...> wrote:
>
> Isn't the bias supposed to be set to 60ma?

That's what the manual says. It also said that greater than 60mA can shorten the lift of the tubes. I set mine just shy of 60mA, like 55mA, in the hopes of not breaking something while setting up this unfamiliar rig.

20187. Re: TS-820 coming out of the attic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-13 20:09:38 UTC
From: al_kozakiewicz
Topic: 20168 Message: 20187

Don't forget that as you reduce the bias, the final amplifier is conducting over less of the input cycle and thus reducing output power, all other things equal. With CW, you can overcome this by increasing the carrier control. In SSB modes, the level is limited by the dynamic range of the mixer.

Al
AB2ZY

--- In TS-520_820_530_830@yahoogroups.com, "cougmedic" <cougmedic@...> wrote:
>
> ---]"al_kozakiewicz" <akozak@> wrote:
> >
> > Isn't the bias supposed to be set to 60ma?
>
> That's what the manual says. It also said that greater than 60mA can
> shorten the lift of the tubes. I set mine just shy of 60mA, like 55mA,
> in the hopes of not breaking something while setting up this
> unfamiliar rig.
>

20188. Re: TS-820 coming out of the attic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-13 21:08:39 UTC
From: cougmedic
Topic: 20168 Message: 20188

Okay. I adjusted the bias so the IP is exactly 60mA now.

I think I might actually be getting somewhere now. Before I couldn't get the ALC to read anything on the meter. For some reason today I could get through the drive tuning procedure with no problem.

Now I'm at 50W if I speak quite loudly into the mic.

--- In TS-520_820_530_830@yahoogroups.com, "al_kozakiewicz" <akozak@...> wrote:
>
> Don't forget that as you reduce the bias, the final amplifier is
> conducting over less of the input cycle and thus reducing output power,
> all other things equal. With CW, you can overcome this by increasing
> the carrier control. In SSB modes, the level is limited by the dynamic
> range of the mixer.
>
> Al
> AB2ZY

20189. Re: TS-820 coming out of the attic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-13 23:51:32 UTC
From: w5rkl
Topic: 20168 Message: 20189

I'm not sure if this has been mentioned but have you cleaned the
contacts on all of the switches (band switch, modes switch, function
switch etc) with contact cleaner?

I also recommend checking the voltages on the AF-AVR board. Age can
cause these voltages to change.

The AF-AVR board is located on the bottom of the 820 directly below
the VFO. To measure the 3.3VDC and 9VDC, remove the covers, turn the
820 upside down with the front panel facing you. The AF-AVR board is
the small PC board in the middle next to the front panel. Along the
front of the board are two plugs. The plug on the left is AF1 and the
plug on the right is AF2. Pins are numbered right to left on each
plug, 1, 2, 3, etc. AF1 pin 1 should measure 9VDC. If it does not,
adjust VR4 located in the middle of the board so pin 1 on AF1 is 9VDC.
AF2 pin 6 should measure 3.3VDC. If it does not, adjust VR1 so pin 6
on AF2 measures 3.3VDC. VR1 is located between plugs AF1 and AF2.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "cougmedic"
<alexjenness@...> wrote:
>
> Okay. I adjusted the bias so the IP is exactly 60mA now.
>
> I think I might actually be getting somewhere now. Before I couldn't
> get the ALC to read anything on the meter. For some reason today I
> could get through the drive tuning procedure with no problem.
>
> Now I'm at 50W if I speak quite loudly into the mic.
>
> --- In TS-520_820_530_830@yahoogroups.com, "al_kozakiewicz"
> <akozak@> wrote:
> >
> > Don't forget that as you reduce the bias, the final amplifier is
> > conducting over less of the input cycle and thus reducing output
power,
> > all other things equal. With CW, you can overcome this by increasing
> > the carrier control. In SSB modes, the level is limited by the
dynamic
> > range of the mixer.
> >
> > Al
> > AB2ZY

>

20190. TS-820 drift

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-14 00:27:08 UTC
From: w5rkl
Topic: 20190 Message: 20190

My last post stating my 820 drift was fixed. Well, after further monitoring, it became clear that not only D5 needed to be replaced but Q7 (2SA496-Y) also needed to be replaced as the drift, although a lot less than it was before replacing D5, the drift was still a bit too much.

I replaced Q7 with a new 2SA496-Y and set the voltages to 8.99VDC and 3.31VDC on the AF-AVR board.

I continued to monitor the drift over a 2 day period. So far, the 820 is well within the factory specifications after replacing both D5 and Q7. The factory specs pertaining to drift in the 820/820S is 100Hz "after" a 30 minute warm up period.

The 820 will drift very slowly during warm up. However, after warm up, with new D5 and Q7 components, the drift is well within the factory specs.

73
Mike
W5RKL

20191. Re: [TS-520_820_530_830] Re: TS-820 coming out of the attic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-14 01:21:10 UTC
From: Jerry J Seay
Topic: 20168 Message: 20191

On ten meters, 50w is about right.

Jerry, KE5PUT

On Friday 13 February 2009 15:08:39 cougmedic wrote:
> Okay. I adjusted the bias so the IP is exactly 60mA now.
>
> I think I might actually be getting somewhere now. Before I couldn't
> get the ALC to read anything on the meter. For some reason today I
> could get through the drive tuning procedure with no problem.
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> --- In TS-520_820_530_830@yahoogroups.com, "al_kozakiewicz"
>
> <akozak@...> wrote:
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> > conducting over less of the input cycle and thus reducing output power,
> > all other things equal. With CW, you can overcome this by increasing
> > the carrier control. In SSB modes, the level is limited by the dynamic
> > range of the mixer.
> >
> > Al
> > AB2ZY

20192. I have different radio

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-14 01:30:31 UTC
From: jefeickert
Topic: 20192 Message: 20192

I just bought a Kenwood TS-430S I'll have clean it when it comes (from AR)
is there any thing else other than it is a old radio that should know about?
Is this right group?
JIM

20193. Knwd YG-3395C CW Filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-14 03:47:37 UTC
From: jsloss
Topic: 20193 Message: 20193

Excellent cosmetic and electrical working condition. $50 + a pittance for USPS mailing.
Fits 820/S, 520, 520S, 520SE

Joe
k7mks@...

[Non-text portions of this message have been removed]

20194. Re: [TS-520_820_530_830] I have different radio

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-14 04:35:15 UTC
From: martin
Topic: 20192 Message: 20194

Hi Jim. The TS-430S is a good older Kenwood radio, but it is all
solid state, not a hybrid. This is not the right group. Most of the
problems people have had with the TS-430S have been well documented.
I think there may be a Yahoo group dedicated the the TS-430S, but I am
not sure.

Feel free to email me direct, as I used to own a TS-430S myself.

TTYL

jefeickert wrote:
> I just bought a Kenwood TS-430S I'll have clean it when it comes (from AR)
> is there any thing else other than it is a old radio that should know about?
> Is this right group?
> JIM
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

20195. Re: TS-820 coming out of the attic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-14 15:11:47 UTC
From: Greg
Topic: 20168 Message: 20195

I see in one of ur posts, you started xmiting after 1 or 2 minutes of warm up....after your rig being unused for such a long time, NOT providing a LONG burn-off time for the gasses in the tubes will seriosly harm them...You should have considered letting the tubes warm up FOR 1 or 2 HOURS....at the very least...to allow the 'getter' to absorb the gas that has leaked into the tube over the years...some folks recommend they warm for DAYS, before reusing an old gassy tube.

73 es GL
Greg

--- In TS-520_820_530_830@yahoogroups.com, "cougmedic" <cougmedic@...> wrote:
>
>.... in the hopes of not breaking something while setting up this
> unfamiliar rig.
>

20196. contact cleaner

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-14 16:21:42 UTC
From: dums2
Topic: 20196 Message: 20196

I have been buying deoxit at Radio Shack. I was wondering if someone could
provide me with a source for a larger container? I have been using it in a lot of projects here latley. Those little cylinders use up real fast and are quite expensive.
Thanks George K0GWD

20197. TS-820S Problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-14 06:42:12 UTC
From: f5ul01
Topic: 20197 Message: 20197

Hello the list!
First off, I'm a ham from France (F5UL). I'm reconditioning a TS-820S that was very badly modified for CB (11 m band!).

I have a lot of problems, tied to the components. I put it back on the original bands (VCO and PD boards) relatively easy, and now I think I have a nice receiver, as the results on all bands seems to par with my Elecraft K2.

But the Tx side is bad.

The ban switch in the PA cage was changed for someting that may have worked on 27 Mhz, but is out of use for the other bands (at least 160, 80, 40 m) where it is impossible to tune and load the PA.

There is only 2 wafers on the switch (insteed of 3) and I found upon examination that the wafer S4-2 and S4-4 where missing and there was no additives cap in parallel with VC1 and VC2. By the way VC2 has all 3 cage wireds in //.

Can somebody help me with a spare PA band switch part complete with 3 wafer, or if only the 3 separates wafers are disponibles, they will do!

When this part of the problem is solved, I will see what I still have to repair and inform you of the results.

Best 73 to all and thank you in advance!

Bob/F5UL

20198. Frequency Display jumping

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-14 17:04:29 UTC
From: n5pef@ymail.com
Topic: 20198 Message: 20198

I have done everything noted below and so far I have not located the problem that is cousing this. Is there any thing else that I can do or check for this problem.
Thanks and 73s
N5PEF

In addition to Gordon's suggestion I also recommend checking and, if necessary, adjust the two AF UNIT pots for the following voltages:

1. The voltage at TP-6 should measure 9VDC. If it does not, adjust VR4 on the AF UNIT so the voltage at TP-6 is 9VDC.

2. The voltage a plug 9 pin 5 should measure 3.6VDC. If it does not, adjust VR3 on the AF UNIT so the voltage at plug 9 pin 5 is 3.6VDC.

The AF UNIT board is located on the bottom of the 830. With the bottom cover removed and the 830 upside down and the front panel facing you, the AF UNIT board is on the left closest to the front panel. There are two plugs on the rear of the board. Plug 9 is the plug on the right. Pin numbers run left to right, 1, 2, 3, etc. Plug 9 will be labeled "RF1". The 3.6VDC voltage adjust pot, VR3, is located just forward of plug 9/RF1.

TP6 is located on the left front of the AF UNIT. The 9VDC voltage adjust pot, VR4, is the "left" pot between TP6 and the front panel. The pot just to the right of VR4 is VR1, the sidetone pot.

The 830 should be in receive when measuring and, if necessary, adjusting the two pots on the AF UNIT for the corresponding correct voltages.

73
Mike
W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, N6WK <n6wk@...> wrote:
>
> I would start by cleaning and checking all the Connections on the PLL board.
> Just my thoughts.
>
> 73,
> Gordon
> N6WK
>
>
>

> n5pef@... wrote:
> >
> > I was wondering if anyone can help me on this problem.
> > I have a TS-830S and when I first turn it on the frequency
display is
> > working fine. About 10 to 15 minutes the display starts to jump
around
> > a little bit. As it warms up the more inaccurate it becomes.
> > The receive a transmit is not moving only the frequency display.
> > Is there anyone ever had this problem and or know what I should
look at
> > to fix this problem.
> > I would appreciate anyone who can help me with this.
> > Thanks and 73s
> > N5PEF

20199. Re: [TS-520_820_530_830] Frequency Display jumping

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-14 17:24:18 UTC
From: N6WK
Topic: 20198 Message: 20199

You might Check the connectors on the Display board for bad/dirty pins
and broken wires one at a time.
I just had a TS-830S here that the display was acting strange and
jumping around. I discovered a wire that looked good but was broken
inside the insulation right at the connector.
Also be sure to check the connectors at the very front of the IF board.

Hope some of this helps.
73,
Gordon

n5pef@... wrote:
>
> I have done everything noted below and so far I have not located the
> problem that is cousing this. Is there any thing else that I can do
> or check for this problem.
> Thanks and 73s
> N5PEF
>
> In addition to Gordon's suggestion I also recommend checking and, if
> necessary, adjust the two AF UNIT pots for the following voltages:
>
> 1. The voltage at TP-6 should measure 9VDC. If it does not, adjust VR4
> on the AF UNIT so the voltage at TP-6 is 9VDC.
>
> 2. The voltage a plug 9 pin 5 should measure 3.6VDC. If it does not,
> adjust VR3 on the AF UNIT so the voltage at plug 9 pin 5 is 3.6VDC.
>
> The AF UNIT board is located on the bottom of the 830. With the bottom
> cover removed and the 830 upside down and the front panel facing you,
> the AF UNIT board is on the left closest to the front panel. There are
> two plugs on the rear of the board. Plug 9 is the plug on the right.
> Pin numbers run left to right, 1, 2, 3, etc. Plug 9 will be labeled
> "RF1". The 3.6VDC voltage adjust pot, VR3, is located just forward of
> plug 9/RF1.
>
> TP6 is located on the left front of the AF UNIT. The 9VDC voltage
> adjust pot, VR4, is the "left" pot between TP6 and the front panel.
> The pot just to the right of VR4 is VR1, the sidetone pot.
>
> The 830 should be in receive when measuring and, if necessary,
> adjusting the two pots on the AF UNIT for the corresponding correct
> voltages.
>
> 73

> Mike
> W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com, N6WK <n6wk@...> wrote:
> >
> > I would start by cleaning and checking all the Connections on the
> PLL board.
> > Just my thoughts.
> >
> > 73,
> > Gordon
> > N6WK
> >
> >
> >
> > n5pef@... wrote:
> > >
> > > I was wondering if anyone can help me on this problem.
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> display is
> > > working fine. About 10 to 15 minutes the display starts to jump
> around
> > > a little bit. As it warms up the more inaccurate it becomes.
> > > The receive a transmit is not moving only the frequency display.
> > > Is there anyone ever had this problem and or know what I should
> look at
> > > to fix this problem.
> > > I would appreciate anyone who can help me with this.
> > > Thanks and 73s
> > > N5PEF
>
>

20200. Re: I have different radio

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-14 18:04:35 UTC
From: jefeickert
Topic: 20192 Message: 20200

Sorry I will leave group[until the time comes when I get different radio
73's
JIM

20201. Re: [TS-520_820_530_830] Frequency Display jumping

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-14 18:42:46 UTC
From: Kelly Maiden
Topic: 20198 Message: 20201

Try pushing in the FIX button a few times and releasing it and see if
that has
any effect.

Kelly - AB8SG

n5pef@... wrote:

> I have done everything noted below and so far I have not located the
> problem that is cousing this. Is there any thing else that I can do
> or check for this problem.
> Thanks and 73s
> N5PEF
>
> In addition to Gordon's suggestion I also recommend checking and, if
> necessary, adjust the two AF UNIT pots for the following voltages:
>
> 1. The voltage at TP-6 should measure 9VDC. If it does not, adjust VR4
> on the AF UNIT so the voltage at TP-6 is 9VDC.
>
> 2. The voltage a plug 9 pin 5 should measure 3.6VDC. If it does not,
> adjust VR3 on the AF UNIT so the voltage at plug 9 pin 5 is 3.6VDC.
>
> The AF UNIT board is located on the bottom of the 830. With the bottom
> cover removed and the 830 upside down and the front panel facing you,
> the AF UNIT board is on the left closest to the front panel. There are
> two plugs on the rear of the board. Plug 9 is the plug on the right.
> Pin numbers run left to right, 1, 2, 3, etc. Plug 9 will be labeled
> "RF1". The 3.6VDC voltage adjust pot, VR3, is located just forward of
> plug 9/RF1.
>
> TP6 is located on the left front of the AF UNIT. The 9VDC voltage
> adjust pot, VR4, is the "left" pot between TP6 and the front panel.
> The pot just to the right of VR4 is VR1, the sidetone pot.
>
> The 830 should be in receive when measuring and, if necessary,
> adjusting the two pots on the AF UNIT for the corresponding correct
> voltages.
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com, N6WK <n6wk@...> wrote:
> >
> > I would start by cleaning and checking all the Connections on the

> PLL board.
> > Just my thoughts.
> >
> > 73,
> > Gordon
> > N6WK
> >
> >
> >
> > n5pef@... wrote:
> > >
> > > I was wondering if anyone can help me on this problem.
> > > I have a TS-830S and when I first turn it on the frequency
> display is
> > > working fine. About 10 to 15 minutes the display starts to jump
> around
> > > a little bit. As it warms up the more inaccurate it becomes.
> > > The receive a transmit is not moving only the frequency display.
> > > Is there anyone ever had this problem and or know what I should
> look at
> > > to fix this problem.
> > > I would appreciate anyone who can help me with this.
> > > Thanks and 73s
> > > N5PEF
>
>

[Non-text portions of this message have been removed]

20202. Re: [TS-520_820_530_830] contact cleaner

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-14 18:52:05 UTC
From: martin
Topic: 20196 Message: 20202

Hi George. DeOxit D5 is available from Antique Electronic Supply. I think that they have a minimum order.

Good Luck!

dums2 wrote:
> I have been buying deoxit at Radio Shack. I was wondering if someone could
> provide me with a source for a larger container? I have been using it in a lot of projects here latley. Those little cylinders use up real fast and are quite expensive.
> Thanks George K0GWD
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at http://www.defectivebydesign.org/what_is_drm"

20203. Re: [TS-520_820_530_830] contact cleaner

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-14 18:56:43 UTC
From: N6WK
Topic: 20196 Message: 20203

It also is available from some On-Line sources.
I usually buy two cans at a time and the savings from buying it on-line
actually covers the shipping costs.

73,
Gordon

martin wrote:
>
> Hi George. DeOxit D5 is available from Antique Electronic Supply. I
> think that they have a minimum order.
>
> Good Luck!
>
> dums2 wrote:
> > I have been buying deoxit at Radio Shack. I was wondering if someone
> > could
> > provide me with a source for a larger container? I have been using it
> > in a lot of projects here latley. Those little cylinders use up real
> > fast and are quite expensive.
> > Thanks George K0GWD
> >
> >
>
> --
> CUL8R
>
> KBOHAE kb0hae@... <mailto:kb0hae%40mchsi.com> Martin Campbell
>
> A Satisfied Sidux Linux user! To get Sidux go to:
> www.sidux.com/index.html
> "Protect your digital freedom and privacy, eliminate DRM, learn more
> at http://www.defectivebydesign.org/what_is_drm
> <http://www.defectivebydesign.org/what_is_drm>"
>
>

20204. Re: [TS-520_820_530_830] contact cleaner

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-14 19:17:16 UTC
From: Bill Scurlock
Topic: 20196 Message: 20204

Fry's Electronics is a good source.

Bill, K5GCW
----- Original Message -----
From: dums2
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, February 14, 2009 10:21 AM
Subject: [TS-520_820_530_830] contact cleaner

I have been buying deoxit at Radio Shack. I was wondering if someone could
provide me with a source for a larger container? I have been using it in a lot of projects here latley. Those little cylinders use up real fast and are quite expensive.
Thanks George K0GWD

[Non-text portions of this message have been removed]

20205. TS-830 as VFO

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-14 20:26:45 UTC
From: copa054@cira.it
Topic: 20196 Message: 20205

I would like to buy an other TS-830 (real great radio). Could I use one of them as external VFO ?? This because I do not already have an ex. VFO.

Paul i8ixo

20206. Re: [TS-520_820_530_830] contact cleaner

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-14 22:45:01 UTC
From: james eaton
Topic: 20196 Message: 20206

http://www.sweetwater.com/store/search.php?s=Deoxit

Jim
KE5KNH

--- On Sat, 2/14/09, martin <kb0hae@...> wrote:

From: martin <kb0hae@mchsi.com>
Subject: Re: [TS-520_820_530_830] contact cleaner
To: TS-520_820_530_830@yahoogroups.com
Date: Saturday, February 14, 2009, 12:52 PM

Hi George. DeOxit D5 is available from Antique Electronic Supply. I
think that they have a minimum order.

Good Luck!

dums2 wrote:
> I have been buying deoxit at Radio Shack. I was wondering if someone
> could
> provide me with a source for a larger container? I have been using it
> in a lot of projects here latley. Those little cylinders use up real
> fast and are quite expensive.
> Thanks George K0GWD
>
>

--
CUL8R

KBOHAE kb0hae@mchsi. com Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/ index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectiv ebydesign. org/what_ is_drm"

[Non-text portions of this message have been removed]

20207. TS-820S Rectifier Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-14 23:32:10 UTC
From: jsloss
Topic: 20207 Message: 20207

What is an accepted substitute for the 4 diodes (D8-D11) on the rectifier board. I had one bad diode and might as well replace all 4.

Thanks Joe k7mks_

[Non-text portions of this message have been removed]

20208. Vibrokeyer & TS-520 Kenwood

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-15 00:30:05 UTC
From: Jojo Vicencio DV1VHY
Topic: 20208 Message: 20208

Just returned to ham radio after over 30 years of absence. I have the subject equipment and am would like to know from those with similar combination, which type or kind of keyer would you recommend.

73,

jojo

Roberto "Jojo" Vicencio USN(Retired)

(DV1VHY ex-dw1olv)

Mobile +639178501759

VOIP +1-616-928-1134

http://www.vicencio.net

http://picasaweb.google.com/mob3mc

http://www.dw1olv.multiply.com

https://sites.google.com/site/militaryretireesoverseas/

http://mrgrg-ms.org/ad-swindle-00.html

--- On Sun, 2/15/09, Pete Theer <k5prt@...> wrote:

From: Pete Theer <k5prt@...>
Subject: [cw_bugs] Group,
To: cw_bugs@yahoogroups.com
Date: Sunday, February 15, 2009, 5:30 AM

Hi

[Non-text portions of this message have been removed]

20209. TS-830S for Sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-15 02:33:41 UTC
From: Gordon
Topic: 20209 Message: 20209

I am selling a nice TS-830S.
It is in very good cosmetic condition. I have just finished a complete cleaning and alignment. It works good.
It is the GOLD version but does NOT have any optional Filters.
Price is $400.00 plus 45.00 for shipping here in the continental USA.
I have put this radio on the air and have received great audio reports.
Please email me direct if interested.
10 day money back Guarantee (minus shipping)
Gordon
N6wk at n6wk.com

20210. RE: TS-830S band switch

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-15 02:42:43 UTC
From: Rick
Topic: 20210 Message: 20210

Hi to the group -- Does anyone have a hulk that can let go of the band switch sections inside of the PA Cage? If so, please contact me. It seems that some heavy handed person managed to break out the detents on the switch and it is now possible to rotate it 360 degrees? How? You ask, I have no idea but it had to be done with great force and precision. Any help you all can provide would be greatly appreciated

Rick NU7Z

20211. Re: [TS-520_820_530_830] RE: TS-830S band switch

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-15 02:45:18 UTC
From: N6WK
Topic: 20210 Message: 20211

Rick,
Do you need just the band switch section for inside the PA cage?
If so, I have one.

73,
Gordon

Rick wrote:
>
> Hi to the group -- Does anyone have a hulk that can let go of the band
> switch sections inside of the PA Cage? If so, please contact me. It
> seems that some heavy handed person managed to break out the detents
> on the switch and it is now possible to rotate it 360 degrees? How?
> You ask, I have no idea but it had to be done with great force and
> precision. Any help you all can provide would be greatly appreciated
>
> Rick NU7Z
>
>

20212. Re: [TS-520_820_530_830] RE: TS-830S band switch

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-15 02:49:24 UTC
From: Nu7z@aol.com
Topic: 20210 Message: 20212

Hi Gordon, as far as I know, right this minute -- I have not taken it off line yet to look -- in a sense I hate to -- but it must be done so -- tomorrow will be the day --

I'll get back tomorrow -- Rick

-----Original Message-----
From: N6WK <n6wk@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sat, 14 Feb 2009 6:45 pm
Subject: Re: [TS-520_820_530_830] RE: TS-830S band switch

Rick,

Do you need just the band switch section for inside the PA cage?

If so, I have one.

73,

Gordon

Rick wrote:

>

> Hi to the group -- Does anyone have a hulk that can let go of the band

> switch sections inside of the PA Cage? If so, please contact me. It

> seems that some heavy handed person managed to break out the detents

> on the switch and it is now possible to rotate it 360 degrees? How?

> You ask, I have no idea but it had to be done with great force and

> precision. Any help you all can provide would be greatly appreciated

>

> Rick NU7Z

>

>

[Non-text portions of this message have been removed]

20213. FS - TWO (2) GE 6146W's manufactured 1987 NOS NIB and GUARANTEED!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-15 05:48:52 UTC
From: Howard Weinstein
Topic: 20172 Message: 20213

Gang

I have two (2) GE 6146W's manufactured in 1987. They are NOS in their original boxes and excess to my needs.

$39.00 for both tubes which includes Shipping via USPS Priority mail with Delivery Confirmation.

Payment via PayPal to - k3hw@....

I guarantee them unconditionally and if you are not happy with them for any reason return them to me within 7 days of receipt in original condition and I will refund the purchase price less cost of shipping.

I will ship these tubes IMMEDIATELY upon receipt of payment via PayPal.

Tnx es 73

Howard Weinstein K3HW
103 Barnes Street
Ashley PA 18706

20214. Re: [TS-520_820_530_830] TS-820S Rectifier Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-15 10:41:32 UTC
From: Gordon J. C. Pearce MM3YEQ
Topic: 20207 Message: 20214

On Sat, 2009-02-14 at 15:32 -0800, jsloss wrote:
> What is an accepted substitute for the 4 diodes (D8-D11) on the rectifier board. I had one bad diode and might as well replace all 4.
>
> Thanks Joe k7mks_

Pretty much any 1A 800v diode, by the looks of it. Don't worry if the diode has a higher voltage or current rating, just use what you have that has at least that spec.

I'd use 1N4006 or 1N4007 there. Well, actually I'd use 1N5407, because I've got masses of them. No point ordering stuff in if I don't need to.

Gordon

20215. Re: [TS-520_820_530_830] contact cleaner

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-15 13:49:46 UTC
From: Karl Schwab
Topic: 20196 Message: 20215

George, All Electronics (www.allelectronics.com)has DeoxiT D5 in the 5 oz. spray container, CAT# D5S-6, check 'em out. 73, Karl

--- On Sat, 2/14/09, dums2 <dums2@...> wrote:

> From: dums2 <dums2@...>
> Subject: [TS-520_820_530_830] contact cleaner
> To: TS-520_820_530_830@yahoogroups.com
> Date: Saturday, February 14, 2009, 4:21 PM
> I have been buying deoxit at Radio Shack. I was wondering if
> someone
> could
> provide me with a source for a larger container? I have
> been using it
> in a lot of projects here latley. Those little cylinders
> use up real
> fast and are quite expensive.
> Thanks George K0GWD
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

20216. Re: TS-820S Rectifier Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-15 14:30:33 UTC
From: w5rkl
Topic: 20207 Message: 20216

Diodes D8-D11 are "V06B" silicon diodes rated at 100VDC at 35ma. Therefore, any silicon diodes rated at 100VDC at 35ma or higher can be used as a substitute. A 1N4002 will do fine as a replacement. The 1N4007 or 1N5407, if that's all you have, will also work as a replacement for diodes D8-D11. Diodes D8-D11 are the 14VDC bridge rectifier diodes.

The 14VDC supply not only powers the relay on the Relay board and all circuits requiring 14VDC (pin connection labeled "14" on numerous PC boards), but it also provides the source voltage for the 3.3VDC receiver AGC bias, the main 9VDC voltage for ALL of the PC boards, and if your 820 is equipped with the DG-1 digital display unit, the source voltage for the 5VDC DG-1 regulator circuit. Therefore, a failure in the 14VDC supply will affect quite a lot of circuits in the 820.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Gordon J. C. Pearce MM3YEQ" <gordon@...> wrote:
>
> On Sat, 2009-02-14 at 15:32 -0800, jsloss wrote:
> > What is an accepted substitute for the 4 diodes (D8-D11) on the rectifier board. I had one bad diode and might as well replace all 4.
> >
> > Thanks Joe k7mks_
>
> Pretty much any 1A 800v diode, by the looks of it. Don't worry if the
> diode has a higher voltage or current rating, just use what you have
> that has at least that spec.
>
> I'd use 1N4006 or 1N4007 there. Well, actually I'd use 1N5407, because
> I've got masses of them. No point ordering stuff in if I don't need to.
>
> Gordon
>

20217. Re: [TS-520_820_530_830] Re: TS-820S Rectifier Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-15 15:12:32 UTC
From: jsloss
Topic: 20207 Message: 20217

Thanks Mike & Gordon: The rectifier board showed signs of solder melting and trace overheating leading me to feel that something downline caused the diode to let go. This 820S is quite handcapped cosmetically so may be a candidate for a part-out.

73 joe k7mks

[Non-text portions of this message have been removed]

20218. Re: [TS-520_820_530_830] Re: TS-820S Rectifier Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-15 15:26:30 UTC
From: Ron Pearson
Topic: 20207 Message: 20218

Joe... I bought a pack of 100pcs of 1N4007 a while back. Send me your address and I will send you 4 of them....
Ron/W5RCP

100% CW, 100% of the Time
Fists#6259 & cc#1775, ARS#1799, FP#1047, NAQCC#483, SKCC#2922,
QRP-ARCI#13328, Houston QRP Club, HQRP Fists#11025, KCARC/Abilene, Zombie#839

From: w5rkl <w5rkl@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, February 15, 2009 8:30:33 AM
Subject: [TS-520_820_530_830] Re: TS-820S Rectifier Board

Diodes D8-D11 are "V06B" silicon diodes rated at 100VDC at 35ma. Therefore, any silicon diodes rated at 100VDC at 35ma or higher can be used as a substitute. A 1N4002 will do fine as a replacement. The 1N4007 or 1N5407, if that's all you have, will also work as a replacement for diodes D8-D11. Diodes D8-D11 are the 14VDC bridge rectifier diodes.

The 14VDC supply not only powers the relay on the Relay board and all circuits requiring 14VDC (pin connection labeled "14" on numerous PC boards), but it also provides the source voltage for the 3.3VDC receiver AGC bias, the main 9VDC voltage for ALL of the PC boards, and if your 820 is equipped with the DG-1 digital display unit, the source voltage for the 5VDC DG-1 regulator circuit. Therefore, a failure in the 14VDC supply will affect quite a lot of circuits in the 820.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Gordon J. C. Pearce MM3YEQ" <gordon@...> wrote:
>
> On Sat, 2009-02-14 at 15:32 -0800, jsloss wrote:
> > What is an accepted substitute for the 4 diodes (D8-D11) on the rectifier board. I had one bad diode and might as well replace all 4.
> >
> > Thanks Joe k7mks_
>
> Pretty much any 1A 800v diode, by the looks of it. Don't worry if the
> diode has a higher voltage or current rating, just use what you have
> that has at least that spec.
>

> I'd use 1N4006 or 1N4007 there. Well, actually I'd use 1N5407, because
> I've got masses of them. No point ordering stuff in if I don't need to.
>
> Gordon
>

Yahoo! Groups Links

[Non-text portions of this message have been removed]

20219. Re: TS-820S Rectifier Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-15 15:56:32 UTC
From: w5rkl
Topic: 20207 Message: 20219

Hello Joe,

If the Rectifier Unit's foil runs appear to be overheated, that can be caused by two things, 1) excessive heat from a high wattage solider pencil or, 2) high current demand placed on the power supply. If the solder appears to be in a "ball" or dull colored, that would indicated a "cold solder" connection.

What do you mean when you say your 820 is "quite handcapped"? Was it modified to Chicken Band (11 meters) like many CB hack shops do? What condition is the front panel, knobs, top and bottom cabinet sections, rear panel, and inside? If your 820 has not been modified for Chicken Band, the items I listed are in good shape, no broken knobs and all knobs are original, but electrically your 820 is not working right, the 820 can be fixed! It will take some time and, yes, money, to get it back to its original operating condition.

All this depends on whether you really want to keep your 820 or not.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "jsloss" <k7mks@...> wrote:
>
> Thanks Mike & Gordon: The rectifier board showed signs of solder melting and trace overheating leading me to feel that something downline caused the diode to let go. This 820S is quite handcapped cosmetically so may be a candidate for a part-out.
>
> 73 joe k7mks
>
> [Non-text portions of this message have been removed]
>

20220. Re: [TS-520_820_530_830] vfo-230 no display

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-15 16:16:47 UTC
From: David Owens
Topic: 20171 Message: 20220

Thanks Steve. I'll give that a try on the vfo-230. Sure hate to lose it, have never really got a chance to use it. That's how it goes. 73's Dave kc5ee

--- On Thu, 2/12/09, probe <probeusr@...> wrote:

From: probe <probeusr@...>
Subject: Re: [TS-520_820_530_830] vfo-230 no display
To: TS-520_820_530_830@yahoogroups.com
Date: Thursday, February 12, 2009, 10:36 PM

The ts-830s service manual has the vfo-230 service manual included. Try that, its a free download
located here:

http://www.n6wk. com/kenwood/ TS-830_Service_ manual.pdf

Steve B, wz7e

----- Original Message -----
From: knocker308
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Thursday, February 12, 2009 4:17 PM
Subject: [TS-520_820_ 530_830] vfo-230 no display

Hello everyone. My vfo230 started intermittently digits going out and
finally no display. I printed a schematic but voltage readings are not
clear enough to see. Does any body have a starting point to check
where the problem may be? Any help please!!!!!! Dave Kc5ee

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

20221. TS-820 No transmit on SSB

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-15 16:46:24 UTC
From: kueckj
Topic: 20221 Message: 20221

I've been off the air for months due to health and antenna on ground syndrome, but tired to get on last night. Rig tunes up fine on CW, but on LSB or USB, I show zero output on the antenna tuner. The meter on the 820 shows no ALC or RF, about 25% of the CW reading on IP and about the same as CW on HV. Any ideas? The relay clicks and cuts out the audio.

20222. Re: [TS-520_820_530_830] TS-820S Rectifier Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-15 04:55:15 UTC
From: Joe Hayes
Topic: 20207 Message: 20222

I would use a 1n4007 (NTE125)

--- On Sat, 2/14/09, jsloss <k7mks@comcast.net> wrote:

From: jsloss <k7mks@...>
Subject: [TS-520_820_530_830] TS-820S Rectifier Board
To: TS-520_820_530_830@yahoogroups.com
Date: Saturday, February 14, 2009, 11:32 PM

What is an accepted substitute for the 4 diodes (D8-D11) on the rectifier board. I had one bad diode and might as well replace all 4.

Thanks Joe k7mks_

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

20223. Re: [TS-520_820_530_830] Re: TS-820S Rectifier Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-15 17:34:16 UTC
From: Gordon J. C. Pearce MM3YEQ
Topic: 20207 Message: 20223

On Sun, 2009-02-15 at 07:12 -0800, jsloss wrote:
> Thanks Mike & Gordon: The rectifier board showed signs of solder
> melting and trace overheating leading me to feel that something
> downline caused the diode to let go. This 820S is quite handcapped
> cosmetically so may be a candidate for a part-out.

I do a lot of repairs on synthesizers (of the musical rather than RF variety), and probably the most common failure (after scratchy contacts in plugs, switches and pots) is blown rectifier diodes. These often fail dead short, releasing vast amounts of magic smoke. Quite often this cooks up the traces on the board too - I've seen the trace heat up and buckle enough to short out to the earthed foil lining on one Roland JX-8P, with hilarious consequences.

Check and replace the diodes, then test very carefully. Work your way through the rest of the power supply and make sure nothing else is getting hot and bothered. If one diode in the bridge has failed, do the lot - the others won't be far behind.

Gordon

20224. Re: Vibrokeyer & TS-520 Kenwood

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-15 19:04:54 UTC
From: Brian Hall
Topic: 20208 Message: 20224

I use the pico-keyer offered by N0XAS:

http://www.hamgadgets.com/product_info.php?cPath=21&products_id=89

It has a lot of features for the price, is small enough to mount
inside your rig if you choose, and has no problem w/ grid-block keying.

Brian AC7NA
SKC(SS) USNR

20225. Re: TS-820 No transmit on SSB

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-15 19:24:33 UTC
From: w5rkl
Topic: 20221 Message: 20225

Unplug the microphone, place the mode switch in USB or LSB, turn the MIC gain setting to 2 or 3 o'clock, set the meter to "RF", connect a dummy load to the 820, then flip SEND switch up (places the 820 in transmit). While watching the 820 meter, press your thumb firmly across the microphone socket. Do you see meter movement with your thumb pressed against the microphone pins? If so then it's quite possible your problem is the microphone and not the 820.

There's no danger nor will you receive a shock when pressing your thumb against the 820's microphone socket. Don't forget to turn the MIC gain setting back to 9 or 10 o'clock.

Next thing to do is clean the MODE, BAND SWITCH, and FUNCTION switches with contact cleaner. Do soak the switch, a little goes a long way. Use canned air, those air cans used to blow dust and dirt out of computer keyboards etc. Walmart sells them for $5.95 a piece, to remove the excess contact cleaner. Wait 3 to 5 minutes before applying power. Contact cleaner is "flammable" and it only takes a slight spark to ignite it.

What microphone are you using? The 820 has a high impedance microphone input. An MC-50, MC-60, Shure 444, non-amplified D-104, and a number of other high impedance microphone will work with the 820. You might try another microphone, if you have one. Make sure you wire the microphone to the 4 pin plug as outlined in the 820 manual.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "kueckj" <jimkueck@...> wrote:
>
> I've been off the air for months due to health and antenna on ground
> syndrome, but tired to get on last night. Rig tunes up fine on CW,
> but on LSB or USB, I show zero output on the antenna tuner. The meter
> on the 820 shows no ALC or RF, about 25% of the CW reading on IP and
> about the same as CW on HV. Any ideas? The relay clicks and cuts out
> the audio.
>

20226. Re: TS-820 No transmit on SSB

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-15 19:31:59 UTC
From: w5rkl
Topic: 20221 Message: 20226

A couple of additional things to check.

Place the 820 in sideband (USB or LSB), connect 820 to dummy load, plug in the microphone, meter set to IP and press the PTT button. The meter should indicate 60ma. If it does not, either higher or lower, adjust the bias pot on the lower right rear of the 820 for 60ma on the meter.

Another thing is to check the HV. Place the meter switch to HV. mode to USB or LSB, and press the PTT button. Read the HV on the orange colored scale, 0 to 10 x 100. It should point at or above the number "8" (800VDC).

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
>
>
> Unplug the microphone, place the mode switch in USB or LSB, turn the
> MIC gain setting to 2 or 3 o'clock, set the meter to "RF", connect a
> dummy load to the 820, then flip SEND switch up (places the 820 in
> transmit). While watching the 820 meter, press your thumb firmly
> across the microphone socket. Do you see meter movement with your
> thumb pressed against the microphone pins? If so then it's quite
> possible your problem is the microphone and not the 820.
>
> There's no danger nor will you receive a shock when pressing your
> thumb against the 820's microphone socket. Don't forget to turn the
> MIC gain setting back to 9 or 10 o'clock.
>
> Next thing to do is clean the MODE, BAND SWITCH, and FUNCTION switches
> with contact cleaner. Do soak the switch, a little goes a long way.
> Use canned air, those air cans used to blow dust and dirt out of
> computer keyboards etc. Walmart sells them for $5.95 a piece, to
> remove the excess contact cleaner. Wait 3 to 5 minutes before applying
> power. Contact cleaner is "flammable" and it only takes a slight spark
> to ignite it.
>
> What microphone are you using? The 820 has a high impedance microphone
> input. An MC-50, MC-60, Shure 444, non-amplified D-104, and a number
> of other high impedance microphone will work with the 820. You might
> try another microphone, if you have one. Make sure you wire the
> microphone to the 4 pin plug as outlined in the 820 manual.

>
> 73
> Mike
> W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "kueckj" <jimkueck@> wrote:
> >
> > I've been off the air for months due to health and antenna on ground
> > syndrome, but tired to get on last night. Rig tunes up fine on CW,
> > but on LSB or USB, I show zero output on the antenna tuner. The meter
> > on the 820 shows no ALC or RF, about 25% of the CW reading on IP and
> > about the same as CW on HV. Any ideas? The relay clicks and cuts out
> > the audio.
> >
>

20227. Re: [TS-520_820_530_830] Re: TS-820 No transmit on SSB

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-15 19:33:28 UTC
From: Lou Blasco
Topic: 20221 Message: 20227

Hi Mike,

I think you meant to say do not soak the switch.

I note that some people tend to use the "whole can" of contact cleaner or Deoxit when working on a set. The extra spray might help to flush out any contaminants but will do little fix the problem. We should remember that all the fluid that drips off the switch or contact has done nothing to repair the problem. In particular, the instructions on the Deoxit can advise that it is used sparingly.

Lou - VK3ALB

At 06:24 16/02/2009, you wrote:
>Next thing to do is clean the MODE, BAND SWITCH, and FUNCTION switches
>with contact cleaner. Do soak the switch, a little goes a long way.
>Use canned air, those air cans used to blow dust and dirt out of
>computer keyboards etc.

[Non-text portions of this message have been removed]

20228. Re: [TS-520_820_530_830] Re: TS-820S Rectifier Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-15 20:06:21 UTC
From: jsloss
Topic: 20207 Message: 20228

Mike: Thanks to you and others for your replies.

I plan to repair the rectifier board and then measure the current between the board's14V outlet and the circuitry in the 820. Will compare that with the same test in my good 820S with controls set in the same position. If currents are close to each other then the rectifier board was at fault. If not then it will be necessary to see which component/board down the line is the culprit.

The cabinet has rust and needs to be stripped and repainted. There is metal discoloration/oxidation in many spots of the internal plug in units. If the rectifier board repair corrects the pro blems then it can be used as a loaner to a new ham.

Otherwise it may give its life to help others who needs parts.

Joe k7mks

[Non-text portions of this message have been removed]

20229. Re: [TS-520_820_530_830] Re: Vibrokeyer & TS-520 Kenwood

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-15 20:08:43 UTC
From: Jojo Vicencio DV1VHY
Topic: 20208 Message: 20229

Chief,

Thank you for your reply and the to the link.

73,

jojo

Roberto "Jojo" Vicencio USN(Retired)

(DV1VHY ex-dw1olv)

Mobile +639178501759

VOIP +1-616-928-1134

http://www.vicencio.net

http://picasaweb.google.com/mob3mc

http://www.dw1olv.multiply.com

https://sites.google.com/site/militaryretireesoverseas/

http://mrgrg-ms.org/ad-swindle-00.html

--- On Mon, 2/16/09, Brian Hall <bnhall_2000@...> wrote:

From: Brian Hall <bnhall_2000@...>
Subject: [TS-520_820_530_830] Re: Vibrokeyer & TS-520 Kenwood
To: TS-520_820_530_830@yahoogroups.com
Date: Monday, February 16, 2009, 3:04 AM

I use the pico-keyer offered by N0XAS:

http://www.hamgadge ts.com/product_ info.php? cPath=21& products_ id=89

It has a lot of features for the price, is small enough to mount

inside your rig if you choose, and has no problem w/ grid-block keying.

Brian AC7NA

SKC(SS) USNR

[Non-text portions of this message have been removed]

20230. Re: [TS-520_820_530_830] Re: TS-820S Rectifier Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-15 20:12:35 UTC
From: Gordon J. C. Pearce MM3YEQ
Topic: 20207 Message: 20230

On Sun, 2009-02-15 at 12:06 -0800, jsloss wrote:
> Mike: Thanks to you and others for your replies.

> The cabinet has rust and needs to be stripped and repainted. There is
> metal discoloration/oxidation in many spots of the internal plug in
> units. If the rectifier board repair corrects the pro blems then it
> can be used as a loaner to a new ham.

Check it out internally for signs of corrosion too! You never know what havoc it may have wrought on the insides. Some of the boards are earthed to the chassis by their mounting screws, so it might repay you to whip those out and give it all a wee brush up underneath.

Of course the plus side of stripping and repainting it is that you can have a custom paint scheme to match the rest of your shack...

Gordon

20231. Re: TS-820 No transmit on SSB

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-15 20:32:24 UTC
From: w5rkl
Topic: 20221 Message: 20231

You're right Lou, I meant to say "Do not soak..".

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Lou Blasco <radio@...> wrote:
>
> Hi Mike,
>
> I think you meant to say do not soak the switch.
>
> I note that some people tend to use the "whole can" of contact
> cleaner or Deoxit when working on a set. The extra spray might help
> to flush out any contaminants but will do little fix the problem. We
> should remember that all the fluid that drips off the switch or
> contact has done nothing to repair the problem. In particular, the
> instructions on the Deoxit can advise that it is used sparingly.
>
> Lou - VK3ALB
>
>
> At 06:24 16/02/2009, you wrote:
> >Next thing to do is clean the MODE, BAND SWITCH, and FUNCTION switches
> >with contact cleaner. Do soak the switch, a little goes a long way.
> >Use canned air, those air cans used to blow dust and dirt out of
> >computer keyboards etc.
>
>
>
> [Non-text portions of this message have been removed]
>

20232. Re: TS-820S Rectifier Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-15 20:42:25 UTC
From: w5rkl
Topic: 20207 Message: 20232

Joe,

My first suspect in the 14 volt supply, if excessive current is found to exist on the 14 volt supply, would be the two 2200ufd 25VDC filter capacitors on the relay board. If one or both of these capacitors short internally one or a short to ground on the board exist in the 14 volt supply, one or more of the diodes, D8 - D11, will fail.

When replacing D8 - D11, make sure the diode's banded end lead is installed correctly. Failure to ensure this is right will lead to some interesting symptoms and additional problems/failures.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "jsloss" <k7mks@...> wrote:
>
> Mike: Thanks to you and others for your replies.
>
> I plan to repair the rectifier board and then measure the current between the board's14V outlet and the circuitry in the 820. Will compare that with the same test in my good 820S with controls set in the same position. If currents are close to each other then the rectifier board was at fault. If not then it will be necessary to see which component/board down the line is the culprit.
>
> The cabinet has rust and needs to be stripped and repainted. There is metal discoloration/oxidation in many spots of the internal plug in units. If the rectifier board repair corrects the pro blems then it can be used as a loaner to a new ham.
>
> Otherwise it may give its life to help others who needs parts.
>
> Joe k7mks
>
>
>
> [Non-text portions of this message have been removed]
>

20233. Re: contact cleaner Deoxit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-16 00:39:07 UTC
From: james27613
Topic: 20196 Message: 20233

Hi,

MCM has Deoxit

http://www.mcmelectronics.com/product/CAIG-LABORATORIES-DP5S-6-/200-195

I like the DP5S, non aerosol spray so no ups hazmat fees.

73 james ke4drn

20234. Re: [TS-520_820_530_830] Re: TS-820S Rectifier Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-16 00:46:20 UTC
From: jsloss
Topic: 20207 Message: 20234

Thank you Mike.

For those following these posts you may wish to note that the current from the rectifier board 14VDC output to the the 14VDC circuitry is approximately 125MA measured with the 820 in the RCVE mode.

Joe k7mkks

[Non-text portions of this message have been removed]

20235. Re: [TS-520_820_530_830] Re: TS-820S Rectifier Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-16 01:23:12 UTC
From: Michael
Topic: 20207 Message: 20235

On the TS-520S, Does it have the same diodes on the rectifier board, The TS-502S I just purchased has been sitting on desk for probably 5 years without operation, not in a storage, before I started operating it again.

Thanks
Mike

--- On Sun, 2/15/09, jsloss <k7mks@...> wrote:

From: jsloss <k7mks@...>
Subject: Re: [TS-520_820_530_830] Re: TS-820S Rectifier Board
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, February 15, 2009, 6:46 PM

Thank you Mike.

For those following these posts you may wish to note that the current from the rectifier board 14VDC output to the the 14VDC circuitry is approximately 125MA measured with the 820 in the RCVE mode.

Joe k7mkks

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

20236. TS-820S - no transmit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-16 01:59:16 UTC
From: chris_yipyap_com
Topic: 20236 Message: 20236

After two years on the shelf I dug into the TS-820 again this weekend.

I'm still as stumped as I was two years ago.

On the RF board, I have signals coming into the transmit mixer FETs, I peaked T1 and I have lots of input signal. But the DC is still -5.8V, so nothing comes out the other side of the mixer. Everything around Q4 reads -5.8V, no changes between transmit and receive. Over near Q2 on the receive side of the circuit the voltage readings look fine with the appropriate difference between transmit and receive.

I've been scratching my head but I can't find where the problem is. Somehow the T/R switching is not working and it looks like Q4 is the center of the trouble but I can't figure out how it is supposed to work or what might be wrong. With the base always being negative relative to the emitter, I don't see how it ever conducts.

I did take the faceplate off, tightened the headphone jack (being loose was causing my meter to act goofy since is serves as ground for the meter). I sprayed contact cleaner in every control, exercised them, cleaned the face up a bit and put it all back together.

Chris
w0ep

20237. FS - Autek Research QF-1 Audio Filter Excellent Condition

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-16 05:33:07 UTC
From: Howard Weinstein
Topic: 20237 Message: 20237

Gang,

My Autek Research QF-1 Audio Filter is excess to my needs right now. It is a cosmetic 8.5 - 9.0 and It operates to factory specifications. In other words it looks great and works perfectly. I used it with my TS-520 and it worked wonderfully!

A copy of the instructions and schematic are included.

$30.00 which includes shipping via USPS Priority Mail anywhere CONUS.

PayPal payment to k3hw@...

Tnx es 72/73 de K3HW

Howard Weinstein
103 Barnes Street
Ashley PA 18706

20238. Re: [TS-520_820_530_830] TS-820S - no transmit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-16 07:06:56 UTC
From: Walter A. Breining
Topic: 20236 Message: 20238

I think I remember this problem when you were dealing with it 2 years ago and frankly, it stumped the band.

Go to n6wk.com and download the high resolution TS-820 service manual that he has there. Unlike other diagrams available the resolution is so good that you can expand it to 400% and accurately read the voltages.

http://www.n6wk.com/kenwood/TS820_SvcManHighRes.pdf

All 4 gates should read about + 2.5 volts when driven with RF from the associated coil. What I think is supposed to happen here is that the gate is biased to minus 4.2 volts through R-2 or R-3 respectively each 100 K. When RF is applied to these gates gate rectification causes the DC voltage to go a positive RMS value of +2.5 volts.

Now do not be faked out by the loading of the measuring device (meter). Remember that the gate of this MOSFET is extremely high impedance, as high as 100 megohm, so it will not take much meter loading to swamp the voltage back near the bias voltage causing an incorrect reading. We ran into this problem with tube grids in the olde days. A high ohms per volt meter is required. Such meters area VTVM, FETVOM, or a oscilloscope. I just use a scope. Use a X10 probe that has a high impedance. The DC voltage reading will be 10 times that shown on the scope.

I am also suspicious that there might be an error on the diagram. One of us may have to take a working TS-820 apart and verify these readings.

I can't remember, are you getting around + 12.8 volts on the drain of these FETS? This is the FET side of C-8.

BTW, do you have a scope?

Vy 73, Walt N9WB

----- Original Message -----
From: chris_yipyap_com
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, February 15, 2009 8:59 PM
Subject: [TS-520_820_530_830] TS-820S - no transmit

After two years on the shelf I dug into the TS-820 again this weekend.

I'm still as stumped as I was two years ago.

On the RF board, I have signals coming into the transmit mixer FETs,
I peaked T1 and I have lots of input signal. But the DC is still
-5.8V, so nothing comes out the other side of the mixer. Everything
around Q4 reads -5.8V, no changes between transmit and receive. Over
near Q2 on the receive side of the circuit the voltage readings look
fine with the appropriate difference between transmit and receive.

I've been scratching my head but I can't find where the problem is. Somehow the T/R switching is not working and it looks like Q4 is the center of the trouble but I can't figure out how it is supposed to work or what might be wrong. With the base always being negative relative to the emitter, I don't see how it ever conducts.

I did take the faceplate off, tightened the headphone jack (being loose was causing my meter to act goofy since is serves as ground for the meter). I sprayed contact cleaner in every control, exercised them, cleaned the face up a bit and put it all back together.

Chris
w0ep

[Non-text portions of this message have been removed]

20239. Re: TS-820S Rectifier Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-16 15:07:57 UTC
From: w5rkl
Topic: 20207 Message: 20239

Mike,

Basically, yes the 520S has the same power supply diodes.

If the 520S sat for 5 years, diodes are not the main concern, the filter capacitors are. Diodes usually don't fail by sitting around not being used. However, power supply electrolytic filter capacitors can dry out over time. Dried out electrolytic filter capacitors, when full power is applied to them, can cause a puncture to the insulation material between the plates which causes an internal short. If this occurs the current through the diodes can easily exceed the diodes maximum rating and "blow" the diodes.

I recommend using a variable transformer to power up the 520S slowly in 25 to 30 volt increments. Watch and listen for smoke, crackling/sizzling sounds, or the plates of the tubes turn red as you increase the voltage. If the tube's plate begins to turn red during power up, shut the radio off. Usually, but not always, a tube plate that turns red is caused by a failed bias supply (-C supply). When this occurs, there's nothing to prevents the tubes from conducting fully in receive and transmit. Usually the fuse blows but damage can occur to the tubes before the fuse blows.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Michael <ki0gv@...> wrote:
>
> On the TS-520S, Does it have the same diodes on the rectifier board, The TS-502S I just purchased has been sitting on desk for probably 5 years without operation, not in a storage, before I started operating it again.
>
> Thanks
> Mike
>
> --- On Sun, 2/15/09, jsloss <k7mks@...> wrote:
>
> From: jsloss <k7mks@...>
> Subject: Re: [TS-520_820_530_830] Re: TS-820S Rectifier Board
> To: TS-520_820_530_830@yahoogroups.com
> Date: Sunday, February 15, 2009, 6:46 PM
>
>
>

>
>
>
> Thank you Mike.
>
> For those following these posts you may wish to note that the
current from the rectifier board 14VDC output to the the 14VDC
circuitry is approximately 125MA measured with the 820 in the RCVE mode.
>
> Joe k7mkks
>
> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
>

20240. Re: TS-820S - no transmit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-16 15:50:35 UTC
From: chris_yipyap_com
Topic: 20236 Message: 20240

Hi Walt, thanks for diving into this again with me.

I do have a scope and I will try to get a more careful measurement as you describe and have that data soon.

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It seems like all of the negative voltage has to come from -C. So -C coming through D3 sucks down the voltage on the driver grid to -9 regulated by zener D1. That seems reasonable.

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--- In TS-520_820_530_830@yahoogroups.com, "Walter A. Breining" <n9wb@...> wrote:
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> Vy 73, Walt N9WB
>
>
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>
> ----- Original Message -----
> From: chris_yipyap_com
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, February 15, 2009 8:59 PM
> Subject: [TS-520_820_530_830] TS-820S - no transmit
>
>
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> [Non-text portions of this message have been removed]
>

20241. Re: TS-820S - no transmit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-16 15:55:42 UTC
From: chris_yipyap_com
Topic: 20236 Message: 20241

No, I take that back. D2 and D3 would set two negative voltage levels
on the driver grid, one during transmit and one during receive.

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I go back to pondering Q4.

Chris

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> One of us may have to take a working TS-820 apart and verify these
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> > Vy 73, Walt N9WB
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> > From: chris_yipyap_com
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Sunday, February 15, 2009 8:59 PM
> > Subject: [TS-520_820_530_830] TS-820S - no transmit
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> >
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> >
> > [Non-text portions of this message have been removed]
> >
>

20242. Re: TS-820S - no transmit FOUND IT!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-16 18:57:16 UTC
From: chris_yipyap_com
Topic: 20236 Message: 20242

I messed that up too....

Ok, in Tune mode line KEY is grounded so to the right of D3 is
grounded all the time. The right of D2 is grounded on transmit
because RLK goes to ground.

I think I've got that right.

Since I have the day off and the local electronics store sells NTE
parts, I zipped over there and bought myself a replacement for Q4.
No change with the new part.

I also measured voltages with my O-scope:

My -6 volt supply reads -5.8.
I get -5.8 on the center conductor of T1 in both transmit and receive.
Same at the center conductor of T4.
At Q4: base -5.14 (both T/R)
emitter -5.8 (both T/R)
collector - 5.8 (both T/R)

On connector RF2 here are the voltages I'm seeing, in TUNE mode:

pin | Transmit | Receive
1 9 | +9.1V | +9.1V
2 -6 | -5.8 | -5.8
3 RB | +2.29 | -3.38
4 RLT | -2.1 | +9.12
5 RLR | +9.11 | -2.35
6 KEY | GND | GND
7 -C | -114 | -114
8 VR1 | -3.25 | -0.90
9 RLK | -3.25 | GND
10 VR3 | -3.25 | -0.5

EUREKA!!!

I found it.

I was trying to figure out where the -114 is disappearing to from the
-C connector to Q4. It must be R12. Has to be.
I'd been measuring the -C voltage through the back of the connector.
When I measured the trace I saw -3.0 volts.
That's not right.

So I examined more closely... and the pin for -C is mangled up inside
the connector and isn't making contact at all. I took the pin out and
the springy part broke off. So I've soldered the -C line to the trace.

Now I've got signal at the tube grid.

I'm so happy.

Now to see if I can neutralize it and

woopee!

Chris
w0ep

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<chris@...> wrote:
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> > D2 and D3 are doing double duty. I think the idea is, during receive
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> > > From: chris_yipyap_com
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Sent: Sunday, February 15, 2009 8:59 PM
> > > Subject: [TS-520_820_530_830] TS-820S - no transmit
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> > >
> > > [Non-text portions of this message have been removed]

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20243. Re: [TS-520_820_530_830] Re: TS-820S - no transmit FOUND IT!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-16 19:15:36 UTC
From: N6WK
Topic: 20236 Message: 20243

Great Find Chris,
I had posted a year or more ago about the problem with the little springy part of the connectors breaking OFF on an 820 I had here.
Again, Glad you found it.

Gordon
N6WK

chris_yipyap_com wrote:
>
>
> I messed that up too....
>
> Ok, in Tune mode line KEY is grounded so to the right of D3 is
> grounded all the time. The right of D2 is grounded on transmit
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> 6 KEY | GND | GND
> 7 -C | -114 | -114
> 8 VR1 | -3.25 | -0.90
> 9 RLK | -3.25 | GND
> 10 VR3 | -3.25 | -0.5

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> > > > ----- Original Message -----
> > > > From: chris_yipyap_com
> > > > To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > > > Sent: Sunday, February 15, 2009 8:59 PM
> > > > Subject: [TS-520_820_530_830] TS-820S - no transmit
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> > > > [Non-text portions of this message have been removed]
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20244. Re: [TS-520_820_530_830] Re: TS-820S Rectifier Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-16 19:20:38 UTC
From: Michael
Topic: 20207 Message: 20244

Mike,

I got the Radio at the local Radio Shack/Ham store and they had it up and running before I had looked at it and I just plugged it in and turned it on when I got it home (A Week Ago) and no bad odor or anything thing coming from it. There the ones that told me the history behind it. I've had it on every day since I got it. I did wait a couple of days before I turned the heat switch on. But when I did it loaded up and operated great.
Another note I just took the covers off to clean switches and controls and much to my amazement it still has the factory tubes in it and I don't see any solder tracks. It is super clean on the inside.

73's
ki0gv
Mike

--- On Mon, 2/16/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: TS-820S Rectifier Board
To: TS-520_820_530_830@yahoogroups.com
Date: Monday, February 16, 2009, 9:07 AM

Mike,

Basically, yes the 520S has the same power supply diodes.

If the 520S sat for 5 years, diodes are not the main concern, the filter capacitors are. Diodes usually don't fail by sitting around not being used. However, power supply electrolytic filter capacitors can dry out over time. Dried out electrolytic filter capacitors, when full power is applied to them, can cause a puncture to the insulation material between the plates which causes an internal short. If this occurs the current through the diodes can easily exceed the diodes maximum rating and "blow" the diodes.

I recommend using a variable transformer to power up the 520S slowly in 25 to 30 volt increments. Watch and listen for smoke, crackling/sizzling sounds, or the plates of the tubes turn red as you increase the voltage. If the tube's plate begins to turn red during power up, shut the radio off. Usually, but not always, a tube plate that turns red is caused by a failed bias supply (-C supply). When this occurs, there's nothing to prevents the tubes from conducting fully in receive and transmit. Usually the fuse blows but damage can occur to the tubes before the fuse blows.

73
Mike

W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@...> wrote:
>
> On the TS-520S, Does it have the same diodes on the rectifier board,
The TS-502S I just purchased has been sitting on desk for probably 5
years without operation, not in a storage, before I started operating
it again.
>
> Thanks
> Mike
>
> --- On Sun, 2/15/09, jsloss <k7mks@...> wrote:
>
> From: jsloss <k7mks@...>
> Subject: Re: [TS-520_820_ 530_830] Re: TS-820S Rectifier Board
> To: TS-520_820_530_ 830@yahoogroups. com
> Date: Sunday, February 15, 2009, 6:46 PM
>
>
>
>
>
>
> Thank you Mike.
>
> For those following these posts you may wish to note that the
current from the rectifier board 14VDC output to the the 14VDC
circuitry is approximately 125MA measured with the 820 in the RCVE mode.
>
> Joe k7mkks
>
> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

20245. Re: TS-820S Rectifier Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-16 20:40:35 UTC
From: w5rkl
Topic: 20207 Message: 20245

Hi Mike,

That is great and eliminates the necessity to slowly power up the 520.

If everything's working fine, full output, not problems, then you have a good radio.

If you later choose to add an amplifier, the 520 will easily drive the amplifier to full output. Amplifier ALC and T/R relay control with most vintage and modern linear amplifier's is compatible with the 520. The only time I would recommend an interface between the 520 and the amplifier is when the amplifier's relay coil voltage is 100 volts or higher and only to save wear and tear on the 520's relay contacts, nothing more. An interface is easily built which can save you a lot of money.

Anyway, have fun and enjoy the 520, it's a wonderful radio.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Michael <ki0gv@...> wrote:
>
> Mike,
>
> I got the Radio at the local Radio Shack/Ham store and they had it up and running before I had looked at it and I just plugged it in and turned it on when I got it home (A Week Ago) and no bad odor or anything thing coming from it. There the ones that told me the history behind it. I've had it on every day since I got it. I did wait a couple of days before I turned the heat switch on. But when I did it loaded up and operated great.
> Another note I just took the covers off to clean switches and controls and much to my amazement it still has the factory tubes in it and I don't see any solder tracks. It is super clean on the inside.
>
> 73's
> ki0gv
> Mike
>

20246. Re: TS-820S Rectifier Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-16 20:41:34 UTC
From: w5rkl
Topic: 20207 Message: 20246

Oooppsss, I meant 820 not 520. Sorry bout that.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hi Mike,
>
> That is great and eliminates the necessity to slowly power up the 520.
>
> If everything's working fine, full output, not problems, then you have
> a good radio.
>
> If you later choose to add an amplifier, the 520 will easily drive the
> amplifier to full output. Amplifier ALC and T/R relay control with
> most vintage and modern linear amplifier's is compatible with the 520.
> The only time I would recommend an interface between the 520 and the
> amplifier is when the amplifier's relay coil voltage is 100 volts or
> higher and only to save wear and tear on the 520's relay contacts,
> nothing more. An interface is easily built which can save you a lot of
> money.
>
> Anyway, have fun and enjoy the 520, it's a wonderful radio.
>
> 73
> Mike
> W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, Michael <ki0gv@> wrote:
> >
> > Mike,
> >
> > I got the Radio at the local Radio Shack/Ham store and they had it
> up and running before I had looked at it and I just plugged it in and
> turned it on when I got it home (A Week Ago) and no bad odor or
> anything thing coming from it. There the ones that told me the history
> behind it. I've had it on every day since I got it. I did wait a
> couple of days before I turned the heat switch on. But when I did it
> loaded up and operated great.
> > Another note I just took the covers off to clean switches and
> controls and much to my amazement it still has the factory tubes in it
> and I don't see any solder tracks. It is super clean on the inside.

> >
> > 73's
> > ki0gv
> > Mike
> >
>

20247. Re: TS-820S - no transmit FOUND IT!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-16 20:44:07 UTC
From: w5rkl
Topic: 20236 Message: 20247

Yep, that "wire wrap" Kenwood used to make connections to the various
boards will break. Good job Chris.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@...> wrote:
>
> Great Find Chris,
> I had posted a year or more ago about the problem with the little
> springy part of the connectors breaking OFF on an 820 I had here.
> Again, Glad you found it.
>
> Gordon
> N6WK
>
>
>
> chris_yipyap_com wrote:
> >
> >
> > I messed that up too....
> >
> > Ok, in Tune mode line KEY is grounded so to the right of D3 is
> > grounded all the time. The right of D2 is grounded on transmit
> > because RLK goes to ground.
> >
> > I think I've got that right.
> >
> > Since I have the day off and the local electronics store sells NTE
> > parts, I zipped over there and bought myself a replacement for Q4.
> > No change with the new part.
> >
> > I also measured voltages with my O-scope:
> >
> > My -6 volt supply reads -5.8.
> > I get -5.8 on the center conductor of T1 in both transmit and receive.
> > Same at the center conductor of T4.
> > At Q4: base -5.14 (both T/R)
> > emitter -5.8 (both T/R)
> > collector - 5.8 (both T/R)
> >
> > On connector RF2 here are the voltages I'm seeing, in TUNE mode:
> >

> > pin | Transmit | Receive
> > 1 9 | +9.1V | +9.1V
> > 2 -6 | -5.8 | -5.8
> > 3 RB | +2.29 | -3.38
> > 4 RLT | -2.1 | +9.12
> > 5 RLR | +9.11 | -2.35
> > 6 KEY | GND | GND
> > 7 -C | -114 | -114
> > 8 VR1 | -3.25 | -0.90
> > 9 RLK | -3.25 | GND
> > 10 VR3 | -3.25 | -0.5
> >
> > EUREKA!!!
> >
> > I found it.
> >
> > I was trying to figure out where the -114 is disappearing to from the
> > -C connector to Q4. It must be R12. Has to be.
> > I'd been measuring the -C voltage through the back of the connector.
> > When I measured the trace I saw -3.0 volts.
> > That's not right.
> >
> > So I examined more closely... and the pin for -C is mangled up inside
> > the connector and isn't making contact at all. I took the pin out and
> > the springy part broke off. So I've soldered the -C line to the trace.
> >
> > Now I've got signal at the tube grid.
> >
> > I'm so happy.
> >
> > Now to see if I can neutralize it and
> >
> > woopee!
> >
> > Chris
> > w0ep
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "chris_yipyap_com"
> > <chris@> wrote:
> > >
> > >
> > > No, I take that back. D2 and D3 would set two negative voltage
levels
> > > on the driver grid, one during transmit and one during receive.
> > >
> > > So I think they are pointing the right direction.
> > >
> > > I go back to pondering Q4.
> > >

> > > Chris
> > >
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "chris_yipyap_com"
> > > <chris@> wrote:
> > > >
> > > >
> > > >
> > > > Hi Walt, thanks for diving into this again with me.
> > > >
> > > > I do have a scope and I will try to get a more careful
measurement as
> > > > you describe and have that data soon.
> > > >
> > > > Looking at the schematic, It looks to me like Q4 and the
diodes D1,
> > > > D2 and D3 are doing double duty. I think the idea is, during
receive
> > > > to bias both the mixer and the driver to an off state. D1
allows the
> > > > driver grid to go to -9 volts, and the mixer is biased to -4.8
which
> > > > is much lower than any possible signal. So not only is TIF
shutdown
> > > > during receive but so is the mixer and the driver.
> > > >
> > > > It seems like all of the negative voltage has to come from -C.
So -C
> > > > coming through D3 sucks down the voltage on the driver grid to -9
> > > > regulated by zener D1. That seems reasonable.
> > > >
> > > > Then on transmit both lines to the right of D2 and D3 are
grounded.
> > > > And that would pull up the driver grid and the mixer bias to zero
> > > > volts.... except D2 seems to be going the wrong direction.
> > > >
> > > > And I have no idea why +9 is coming in on the left at R7.
> > > >
> > > >
> > > >
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> > > >

> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "Walter A. Breining"
> > > > <n9wb@> wrote:
> > > > >
> > > > > I think I remember this problem when you were dealing with it 2
> > > > years ago and frankly, it stumped the band.
> > > > >
> > > > > Go to n6wk.com and download the high resolution TS-820 service
> > > > manual that he has there. Unlike other diagrams available the
> > > > resolution is so good that you can expand it to 400% and
accurately
> > > > read the voltages.
> > > > >
> > > > > http://www.n6wk.com/kenwood/TS820_SvcManHighRes.pdf
> > <http://www.n6wk.com/kenwood/TS820_SvcManHighRes.pdf>
> > > > >
> > > > > All 4 gates should read about + 2.5 volts when driven with
RF from
> > > > the associated coil. What I think is supposed to happen here
is that
> > > > the gate is biased to minus 4.2 volts through R-2 or R-3
respectively
> > > > each 100 K. When RF is applied to these gates gate rectification
> > > > causes the DC voltage to go a positive RMS value of +2.5 volts.
> > > > >
> > > > > Now do not be faked out by the loading of the measuring device
> > > > (meter). Remember that the gate of this MOSFET is extremely high
> > > > impedance, as high as 100 megohm, so it will not take much meter
> > > > loading to swamp the voltage back near the bias voltage causing an
> > > > incorrect reading. We ran into this problem with tube grids in the
> > > > olde days. A high ohms per volt meter is required. Such meters
area
> > > > VTVM, FETVOM, or a oscilloscope. I just use a scope. Use a X10
probe
> > > > that has a high impedance. The DC voltage reading will be 10 times
> > > > that shown on the scope.
> > > > >
> > > > > I am also suspicious that there might be an error on the
diagram.
> > > > One of us may have to take a working TS-820 apart and verify these
> > > > readings.
> > > > >
> > > > > I can't remember, are you getting around + 12.8 volts on the
drain
> > > > of these FETS? This is the FET side of C-8.
> > > > >
> > > > > BTW, do you have a scope?
> > > > >
> > > > > Vy 73, Walt N9WB

> > > > >
> > > > >
> > > > >
> > > > >
> > > > > ----- Original Message -----
> > > > > From: chris_yipyap_com
> > > > > To: TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>
> > > > > Sent: Sunday, February 15, 2009 8:59 PM
> > > > > Subject: [TS-520_820_530_830] TS-820S - no transmit
> > > > >
> > > > >
> > > > >
> > > > > After two years on the shelf I dug into the TS-820 again this
> > > weekend.
> > > > >
> > > > > I'm still as stumped as I was two years ago.
> > > > >
> > > > > On the RF board, I have signals coming into the transmit mixer
> > FETs,
> > > > > I peaked T1 and I have lots of input signal. But the DC is still
> > > > > -5.8V, so nothing comes out the other side of the mixer.
> > Everything
> > > > > around Q4 reads -5.8V, no changes between transmit and
> > receive. Over
> > > > > near Q2 on the receive side of the circuit the voltage
> > readings look
> > > > > fine with the appropriate difference between transmit and
receive.
> > > > >
> > > > > I've been scratching my head but I can't find where the
> > problem is.
> > > > > Somehow the T/R switching is not working and it looks like Q4
> > is the
> > > > > center of the trouble but I can't figure out how it is
supposed to
> > > > > work or what might be wrong. With the base always being negative
> > > > > relative to the emitter, I don't see how it ever conducts.
> > > > >
> > > > > I did take the faceplate off, tightened the headphone jack
(being
> > > > > loose was causing my meter to act goofy since is serves as
> > > ground for
> > > > > the meter). I sprayed contact cleaner in every control,
exercised
> > > > > them, cleaned the face up a bit and put it all back together.
> > > > >
> > > > > Chris
> > > > > w0ep
> > > > >

> > > > >
> > > > >
> > > > >
> > > > > [Non-text portions of this message have been removed]
> > > > >
> > > > >
> > >
> >
> >
>

20248. K4EAA

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-16 19:56:50 UTC
From: archer5949
Topic: 20248 Message: 20248

Anyone have Ken align or repair your rig? Sure like his webpages.

73,
Kevin

20249. Re: [TS-520_820_530_830] K4EAA

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-16 22:26:31 UTC
From: norm
Topic: 20248 Message: 20249

Hi Kevin,
I sent a TS-820s down to Ken and if it wasn't for a couple of small scratches on the top (they were already there when I sent it) I would swear it was a brand new radio. Great guy to do business with, I was very pleased with the communication and the work that was done by him. I can't recommend him enough.
Norm
NR1H
----- Original Message -----
From: archer5949
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, February 16, 2009 2:56 PM
Subject: [TS-520_820_530_830] K4EAA

Anyone have Ken align or repair your rig? Sure like his webpages.

73,
Kevin

[Non-text portions of this message have been removed]

20250. Re: [TS-520_820_530_830] Re: TS-820S Rectifier Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-16 23:05:45 UTC
From: Michael
Topic: 20207 Message: 20250

Mike,

After operating the 520s for a couple of days the only thing that I can tell is while receiving it sounds like bleed over coming out of the speaking, but when I turn the volume control the receive comes back I did take the top and bottomoff and sprayed contact cleaner in the volume and turned several times but the radio still does it, not constantly but on and off. So you think I may need to find another voume/af contol.

Thanks
Mike
--- On Mon, 2/16/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: TS-820S Rectifier Board
To: TS-520_820_530_830@yahoogroups.com
Date: Monday, February 16, 2009, 2:40 PM

Hi Mike,

That is great and eliminates the necessity to slowly power up the 520.

If everything's working fine, full output, not problems, then you have a good radio.

If you later choose to add an amplifier, the 520 will easily drive the amplifier to full output. Amplifier ALC and T/R relay control with most vintage and modern linear amplifier's is compatible with the 520. The only time I would recommend an interface between the 520 and the amplifier is when the amplifier's relay coil voltage is 100 volts or higher and only to save wear and tear on the 520's relay contacts, nothing more. An interface is easily built which can save you a lot of money.

Anyway, have fun and enjoy the 520, it's a wonderful radio.

73
Mike
W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@...> wrote:
>
> Mike,
>
> I got the Radio at the local Radio Shack/Ham store and they had it up and running before I had looked at it and I just plugged it in and turned it on when I got it home (A Week Ago) and no bad odor or anything thing coming from it. There the ones that told me the history

behind it. I've had it on every day since I got it. I did wait a couple of days before I turned the heat switch on. But when I did it loaded up and operated great.
> Another note I just took the covers off to clean switches and controls and much to my amazement it still has the factory tubes in it and I don't see any solder tracks. It is super clean on the inside.
>
> 73's
> ki0gv
> Mike
>

[Non-text portions of this message have been removed]

20251. HC-10 Clock

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-17 07:58:58 UTC
From: jindynews
Topic: 20251 Message: 20251

Hi all,
I know that this has been posted previously in this group but I am after a copy of the manaul for the Kenwood HC-10 clock. I just acquired one albeit sans manual. If anyone could help it would be greatly appreciated.
73's
Angelo

20252. ALC dropoff TS530sp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-17 09:56:59 UTC
From: pramod_birthur
Topic: 20024 Message: 20252

Hi,

I had a similar problem with my TS830S, the power output suddenly fell off last week from 120W to 20W on SSB. Previously, I had encountered a situation where if I did not turn on the rig for more than a week, the power would fall off gradually and the ALC meter indication also would drift downwards when in TUNE mode. But the latter problem would Vanish away if I kept the rig ON for 30 minutes.

Initially, I started believing that the tubes had gone soft and the word of Gurus in all forums re-inforced this thought, however, changing the 6146B and 12BY7 did not help, nor did the neutralization.

I was really dreading the task removing the RF board which houses the Drive control variable capacitors and the band switch assy, as it requires a high level of patience and focus.

I got lucky this time and as it turned out, the culprit was the IF board. The IF board contains most of the TX AF, IF and RF circuitry, removing this and a closer inspection of the solder side revealed a myriad of dry solder joints. Tapping the 2 capacitors , C121 and C27, both are electrolytic capacitors, with the board back inside the rig confirmed the dry joints.

After a clean resolder, the rig is back in action in full swing, and the ALC meter kicks up almost full scale on all the bands except 10m. I get just about 70W CW output on 10m, 120W plus on all the other bands with the old tubes re-instated.

73
vu2ttp

20253. Re: TS-820S Rectifier Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-17 13:29:51 UTC
From: w5rkl
Topic: 20207 Message: 20253

I'm not sure what you mean by "bleeder over" but does this occur with
the radio connected to a dummy load?

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Michael <ki0gv@...> wrote:
>
> Mike,
>
> After operating the 520s for a couple of days the only thing that I
can tell is while receiving it sounds like bleed over coming out of
the speaking, but when I turn the volume control the receive comes
back I did take the top and bottomoff and sprayed contact cleaner in
the volume and turned several times but the radio still does it, not
constantly but on and off. So you think I may need to find another
voume/af contol.
>
> Thanks
> Mike
> --- On Mon, 2/16/09, w5rkl <w5rkl@...> wrote:
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: TS-820S Rectifier Board
> To: TS-520_820_530_830@yahoogroups.com
> Date: Monday, February 16, 2009, 2:40 PM
>
>
>
>
>
>
>
> Hi Mike,
>
> That is great and eliminates the necessity to slowly power up the 520.
>
> If everything's working fine, full output, not problems, then you have
> a good radio.
>
> If you later choose to add an amplifier, the 520 will easily drive the
> amplifier to full output. Amplifier ALC and T/R relay control with
> most vintage and modern linear amplifier's is compatible with the 520.
> The only time I would recommend an interface between the 520 and the
> amplifier is when the amplifier's relay coil voltage is 100 volts or

> higher and only to save wear and tear on the 520's relay contacts,
> nothing more. An interface is easily built which can save you a lot of
> money.
>
> Anyway, have fun and enjoy the 520, it's a wonderful radio.
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@> wrote:
> >
> > Mike,
> >
> > I got the Radio at the local Radio Shack/Ham store and they had it
> up and running before I had looked at it and I just plugged it in and
> turned it on when I got it home (A Week Ago) and no bad odor or
> anything thing coming from it. There the ones that told me the history
> behind it. I've had it on every day since I got it. I did wait a
> couple of days before I turned the heat switch on. But when I did it
> loaded up and operated great.
> > Another note I just took the covers off to clean switches and
> controls and much to my amazement it still has the factory tubes in it
> and I don't see any solder tracks. It is super clean on the inside.
> >
> > 73's
> > ki0gv
> > Mike
> >
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> [Non-text portions of this message have been removed]
>

20254. FS - 814 (VT-154) GE NOS NIB Power Beam Pentodes Guaranteed

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-17 15:44:09 UTC
From: Howard Weinstein
Topic: 20254 Message: 20254

Gang,

I have five (5) NOS NIB 814 (VT-154) GE Power Beam Pentodes that are excess to my needs. $21.00 each plus shipping. I can ship one or two 814's in a LARGE USPS PRIORITY FLAT RATE BOX for $11.00 anywhere CONUS.

The 814/VT-154 has a thoriated-tungsten-filament and is typically used as single ended audio amplifier, rf power amplifier, or oscillator. In Class C operation (CW) 1.5 watts of drive will yield 160 WATTS and when modulated 3.2 watts of drive will yield 130 WATTS.

Requires small five-contact socket (similar to that required for the 807) and may be operated in a vertical position base down, or in a horizontal position with pins 2 and 4 in the vertical plane. These 814's are NOS NIB and were manufactured to MILITARY SPECIFICATIONS (milspec) in May of 1954 by General Electric for the US Navy. They are in perfect condition and are packed in their ORIGINAL oversized boxes (tube is almost 8 inches long) with SPECIAL packing "blankets" that are similar to cotton with a stiff corrugated cardboard backing. They will be securely packed and shipped via USPS Priority Mail with Delivery Confirmation.

There is a 100% money back guarantee on these 814's... If for any reason you are not satisfied with these VINTAGE BEAUTIES you may return them in ORIGINAL condition within 7 days of receipt for a full refund of your purchase price less shipping costs.

PayPal to k3hw@...

Tnx es 73 de K3HW

Howard Weinstein
103 Barnes Street
Ashley PA 18706

20255. Re: K4EAA

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-17 15:51:16 UTC
From: mako26xxx
Topic: 20248 Message: 20255

Hello Kevin

I purchased a TS-830s from the original owner, the radio was like new however the band switch coupler was broken and the owner stated that the rig had never been serviced. I contacted Ken about the radio and sent it to him via Fedex ground (Don't use UPS!!) He replaced the band switch coupler, did an alignment and a complete service, he fully tested the rig on the bench and on the air. I have used the rig for a year and a half with no problems still with full output, i have worked stations all over the globe with 100w and a R7 vertical. Ken is a true professional and just a great guy and very helpful!!

Mike K4NFA

--- In TS-520_820_530_830@yahoogroups.com, "archer5949" <kn0a@...> wrote:
>
> Anyone have Ken align or repair your rig? Sure like his webpages.
>
> 73,
> Kevin
>

20256. TS-520S versus FT-101Z

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-17 17:36:50 UTC
From: too_brute
Topic: 20256 Message: 20256

Hi folks,

I'm trying to figure out the major differences between the FT-101Z and the TS-520S. It seems the TS-520 has a more relaxed sound on RX. I own a FT-101Z and I'm looking for a TS-520S for the club station PI5ALB. Please Help!

73!

Bas de PH0BAS

20257. Re: K4EAA

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-17 17:52:38 UTC
From: ka8rzl
Topic: 20248 Message: 20257

I had Ken go through my TS-520. It works like new.
Ken also talked me through a couple of problems with a TS-830S I
recently acquired. Very helpful.
A true Gentleman and highly recommended.

Phil WU8P

--- In TS-520_820_530_830@yahoogroups.com, "mako26xxx"

<mako26xxx@...> wrote:
>
> Hello Kevin
>
> I purchased a TS-830s from the original owner, the radio was like
> new however the band switch coupler was broken and the owner stated
> that the rig had never been serviced. I contacted Ken about the
radio
> and sent it to him via Fedex ground (Don't use UPS!!) He replaced
the
> band switch coupler, did an alignment and a complete service, he
fully
> tested the rig on the bench and on the air. I have used the rig
for a
> year and a half with no problems still with full output, i have
worked
> stations all over the globe with 100w and a R7 vertical. Ken is a
> true professional and just a great guy and very helpful!!
>
> Mike K4NFA
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "archer5949" <kn0a@>
wrote:
> >
> > Anyone have Ken align or repair your rig? Sure like his webpages.
> >
> > 73,
> > Kevin
> >
>

20258. Re: [TS-520_820_530_830] HC-10 Clock

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-17 18:55:44 UTC
From: Ken Simpson, W8EK
Topic: 20251 Message: 20258

If you are still needing it, I have a manual I could copy.

Thanks.

73,

Ken, W8EK

Ken Simpson
E-mail to W8EK@... or W8EK@...
Voice Phone (352) 732-8400

jindynews wrote, On 2/17/2009 2:58 AM:
> Hi all,
> I know that this has been posted previously in this group but I am
> after a copy of the manaul for the Kenwood HC-10 clock. I just
> acquired one albeit sans manual. If anyone could help it would be
> greatly appreciated.
> 73's
> Angelo
>
>
>

20259. oscilloscope

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-17 19:15:35 UTC
From: w0szv
Topic: 20259 Message: 20259

I have a T599D that has quit on me. also a few other KW hybrids that could use an alignment. After reading the e-mails for a few months it looks to me that a oscilloscope would be very helpful. any suggestions on what to look for in a decent used scope for radio repair work? looking for some ideas on something that will work, but not bread the bank. thanks w0szv

20260. Re: [TS-520_820_530_830] Re: TS-820S Rectifier Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-17 17:54:45 UTC
From: Michael
Topic: 20207 Message: 20260

Mike

  I guess I'm trying to say qrm from down or up the frequency, but it is the rf/af Gain control on the front of the radio. I took the knobbs off and cleaned and tightend them back up (pushed the af gain control up against the rf gain control) and now it seems to be working fine.   But I'm still looking for that control to replace the original one.

Thanks
ki0gv

Mike

--- On Tue, 2/17/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: TS-820S Rectifier Board
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, February 17, 2009, 7:29 AM

I'm not sure what you mean by "bleeder over" but does this occur with
the radio connected to a dummy load?

73
Mike
W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@...> wrote:
>
> Mike,
>
> After operating the 520s for a couple of days the only thing that I
can tell is while receiving it sounds like bleed over coming out of
the speaking, but when I turn the volume control the receive comes
back I did take the top and bottomoff and sprayed contact cleaner in
the volume and turned several times but the radio still does it, not
constantly but on and off. So you think I may need to find another
voume/af contol.
>
> Thanks
> Mike
> --- On Mon, 2/16/09, w5rkl <w5rkl@...> wrote:
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_ 530_830] Re: TS-820S Rectifier Board
> To: TS-520_820_530_ 830@yahoogroups. com
> Date: Monday, February 16, 2009, 2:40 PM
>

>
>
>
>
>
> Hi Mike,
>
> That is great and eliminates the necessity to slowly power up the 520.
>
> If everything's working fine, full output, not problems, then you have
> a good radio.
>
> If you later choose to add an amplifier, the 520 will easily drive the
> amplifier to full output. Amplifier ALC and T/R relay control with
> most vintage and modern linear amplifier's is compatible with the 520.
> The only time I would recommend an interface between the 520 and the
> amplifier is when the amplifier's relay coil voltage is 100 volts or
> higher and only to save wear and tear on the 520's relay contacts,
> nothing more. An interface is easily built which can save you a lot of
> money.
>
> Anyway, have fun and enjoy the 520, it's a wonderful radio.
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@> wrote:
> >
> > Mike,
> >
> > I got the Radio at the local Radio Shack/Ham store and they had it
> up and running before I had looked at it and I just plugged it in and
> turned it on when I got it home (A Week Ago) and no bad odor or
> anything thing coming from it. There the ones that told me the history
> behind it. I've had it on every day since I got it. I did wait a
> couple of days before I turned the heat switch on. But when I did it
> loaded up and operated great.
> > Another note I just took the covers off to clean switches and
> controls and much to my amazement it still has the factory tubes in it
> and I don't see any solder tracks. It is super clean on the inside.
> >
> > 73's
> > ki0gv
> > Mike
> >
>
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>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

20261. Re: [TS-520_820_530_830] HC-10 Clock

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-17 21:19:50 UTC
From: dennis hatch
Topic: 20251 Message: 20261

A hint about the HC-10 Clock display: The vacuum florecent display on the HC-10 gets "lazy" after being off for a long time. When you get it "going" it's best to dial up 1,2, and 8's and let it set at these settings for a while. This will make them return to full brilliance.

[Non-text portions of this message have been removed]

20262. Re: HC-10 Clock

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-17 21:42:55 UTC
From: jindynews
Topic: 20251 Message: 20262

Thanks for the tip! It so happens this one has been in storage for lenght of time though seems to be in perfect condition.
Cheers, Angelo

--- In TS-520_820_530_830@yahoogroups.com, dennis hatch <dennishhatch@...> wrote:
>
>
>
> A hint about the HC-10 Clock display: The vacuum florecent display on the HC-10 gets "lazy" after being off for a long time. When you get it "going" it's best to dial up 1,2, and 8's and let it set at these settings for a while. This will make them return to full brilliance.
>
>
>
>
> [Non-text portions of this message have been removed]
>

20263. Boat Anchors Group

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-18 01:56:26 UTC
From: Michael
Topic: 20263 Message: 20263

Can anyone tell me where the Boat Anchors Group hang out on 75 meters,
I know they have a net but I don't the frequency.

Thanks
ki0gv
Mike

20264. Re: [TS-520_820_530_830] Boat Anchors Group

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-18 03:12:52 UTC
From: Don Thomas
Topic: 20263 Message: 20264

This page has a lot of nets with freq/times. Don't kow how current it is but may help.

http://www.virhistory.com/ham/rrab/air.htm

Don T.

--- On Tue, 2/17/09, Michael <ki0gv@...> wrote:

From: Michael <ki0gv@...>
Subject: [TS-520_820_530_830] Boat Anchors Group
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, February 17, 2009, 7:56 PM

Can anyone tell me where the Boat Anchors Group hang out on 75 meters,
I know they have a net but I don't the frequency.

Thanks
ki0gv
Mike

[Non-text portions of this message have been removed]

20265. What is a good rig cabinet cleaner?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-18 03:11:18 UTC
From: wayneg
Topic: 20265 Message: 20265

I have a TS-520 in excellent working condition but cabinet could use a good cleaning. Can anyone recommend a good cleaning agent?

Thank you.

Wayne/NM3B

20266. TL-922A

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-18 04:19:53 UTC
From: ke6icd
Topic: 20266 Message: 20266

I just purchased a TL-922A amp and was wondering if anyone in the group has information about the amp they would like to share? I have the Rich Measures mods kits i just purchased. and i just installed a fuse on
the tube heater xformer.

Thanx for any help provided!
Ray Wolfbrandt
KE6ICD 73s

20267. Re: [TS-520_820_530_830] What is a good rig cabinet cleaner?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-18 05:02:06 UTC
From: james
Topic: 20265 Message: 20267

> I have a TS-520 in excellent working condition but cabinet
> could use a good cleaning. Can anyone recommend a good
> cleaning agent?

I've had good safe results with Murphy's Oil Soap. I first discovered it when I needed something to clean the interior of a car but was unhappy with the way everything left films and didn't clean very well.

Murphy's cleans very well at low concentrations and hasn't damaged paints or plastics yet.

20268. Re: [TS-520_820_530_830] What is a good rig cabinet cleaner?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-18 06:07:50 UTC
From: Nu7z@aol.com
Topic: 20265 Message: 20268

Hi there -- Clean cabinets can be pretty intense if your not careful. I have a restoration business and here is what I do to try and preserve the finish. First, if there are stickers, tags, markings, etc. use a soft rag with WD40 or better yet - Ronsonal lubricant. This will loosen the glue and remove it without a scratch. It will take some rubbing and time but worth it in the long run. Second, I use 409 with a soft toothbrush. This gets most of the rest. Some folks swear by simple green, but I think either one is just about as good. Once you have the cabinet clean, the secret is "does it look close to its normal color?" then you can go over it one time, lightly with rubbing compound if you like and then several coats of a good hard wax.

Recently, I found a new product that shows promise, McGuires scratch remover --

Anyway, that's my take on it -- I do a lot of cabinets during the year and it seems to work -- GL

Rick NU7Z

-----Original Message-----
From: wayneg <wayne15857@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tue, 17 Feb 2009 7:11 pm
Subject: [TS-520_820_530_830] What is a good rig cabinet cleaner?

I have a TS-520 in excellent working condition but cabinet could use a

good cleaning. Can anyone recommend a good cleaning agent?

Thank you.

Wayne/NM3B

[Non-text portions of this message have been removed]

20269. searching a VFO-230 for my TS-830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-18 08:29:04 UTC
From: Paolo
Topic: 20269 Message: 20269

Does anyone know about a VFO-230 for sale ??

Paul i8ixo

20270. Re: [TS-520_820_530_830] TL-922A

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-18 13:45:58 UTC
From: basketoak@cox.net
Topic: 20266 Message: 20270

Ray/Group....

I too would be interested in any info, esp in a mod to add 10 mtr capability,

73's
Dave
KG4MGB

****
---- ke6icd <ke6icd@...> wrote:

==========
I just purchased a TL-922A amp and was wondering if anyone in the
group has information about the amp they would like to share? I have
the Rich Measures mods kits i just purchased. and i just installed a
fuse on
the tube heater xformer.

Thanx for any help provided!
Ray Wolfbrandt
KE6ICD 73s

--
Dave Beadner

20271. Re: [TS-520_820_530_830] TL-922A

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-18 15:37:20 UTC
From: Jerry J Seay
Topic: 20266 Message: 20271

Why would you want a amp on 10m? When the band is open, (it hasn't been in a long long time), 80 -90 Watts will get you around the world with S9 reports.

Jerry, KE5PUT

On Wednesday 18 February 2009 07:45:58 basketoak@... wrote:
> Ray/Group....
>
> I too would be interested in any info, esp in a mod to add 10 mtr
> capability,
>
> 73's
> Dave
> KG4MGB
>
> **********
> ---- ke6icd <ke6icd@...> wrote:
>
> ==========
> I just purchased a TL-922A amp and was wondering if anyone in the
> group has information about the amp they would like to share? I have
> the Rich Measures mods kits i just purchased. and i just installed a
> fuse on
> the tube heater xformer.
>
> Thanx for any help provided!
> Ray Wolfbrandt
> KE6ICD 73s
>
>
> --
> Dave Beadner

20272. Re: [TS-520_820_530_830] What is a good rig cabinet cleaner?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-18 15:38:03 UTC
From: dennis hatch
Topic: 20265 Message: 20272

Lysol Basin Tube & Tile cleaner. Wet the cabinet with water first or it will cause streaks... Rinse with HOT water and you will be amazed at the "crud" that comes off. Dry, and then spray with a light coat of "Pledge" polish and buff with a flanel cloth.

--- On Tue, 2/17/09, wayneg <wayne15857@...> wrote:

From: wayneg <wayne15857@...>
Subject: [TS-520_820_530_830] What is a good rig cabinet cleaner?
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, February 17, 2009, 9:11 PM

I have a TS-520 in excellent working condition but cabinet could use a
good cleaning. Can anyone recommend a good cleaning agent?

Thank you.

Wayne/NM3B

Yahoo! Groups Links

[Non-text portions of this message have been removed]

20273. Re: TS-520S versus FT-101Z

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-18 06:17:02 UTC
From: jbyroncrowe
Topic: 20256 Message: 20273

I've never had a FT series rig, but understand that they all have sweep tubes for finals amp tubes, AND THESE TUBES ARE HARD (EXPENSIVE) to replace. The Kenwoods 520s use the old 6146 which are still easy to find. This is just one thing you might keep in mind. WA5EDX

20274. Re: [TS-520_820_530_830] TL-922A

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-18 17:06:46 UTC
From: N6WK
Topic: 20266 Message: 20274

My TL-922A has 10 meters already.
It just doesn't show on the Band switch.

Gordon
N6WK

basketoak@... wrote:
>
> Ray/Group....
>
> I too would be interested in any info, esp in a mod to add 10 mtr
> capability,
>
> 73's
> Dave
> KG4MGB
>
> **********
> ---- ke6icd <ke6icd@... <mailto:ke6icd%40verizon.net>> wrote:
>
> ==========
> I just purchased a TL-922A amp and was wondering if anyone in the
> group has information about the amp they would like to share? I have
> the Rich Measures mods kits i just purchased. and i just installed a
> fuse on
> the tube heater xformer.
>
> Thanx for any help provided!
> Ray Wolfbrandt
> KE6ICD 73s
>
> --
> Dave Beadner
>
>

20275. Re: [TS-520_820_530_830] TL-922A

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-18 20:39:06 UTC
From: martin
Topic: 20266 Message: 20275

Hi. Jerry. You are correct. I worked many U.S. States and foreign countries on 10M back in the early 1990s. 10M was open during daylight hours every day, and sometimes at night also. I was a Tech Plus back then, so of course I wasn't using an amp. My antenna was an 11M "Ringo" vertical. The antenna was so named because it was a 1/2 wave antenna with a ring at the base, and a fixed matching stub. SWR was adjusted by moving a lead around the ring.

My radios were an old Kenwood TS-520, and a Uniden HR2510. I got rid of the HR2510 though, as at the time I couldn't find out how to eliminate the built-in "talkback feature". I still do not have an amp, nor do I have any plans to acquire one in the future. Unlike some, I do not consider an amp necessary. I would rather put my time, effort, and money into better antennas.

TTYL

Jerry J Seay wrote:
> Why would you want a amp on 10m? When the band is open, (it hasn't been in a
> long long time), 80 -90 Watts will get you around the world with S9 reports.
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at http://www.defectivebydesign.org/what_is_drm"

20276. Re: [TS-520_820_530_830] Re: TS-520S versus FT-101Z

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-18 20:40:46 UTC
From: Lou Blasco
Topic: 20256 Message: 20276

The FT-101Z uses 6146B's in the PA. There's probably more gadgets to play with on the 101Z and it has a digital display. However, only the Kenwood has that wonderful Kenwood tone on transmit and receive. In my opinion the Yaesu's always sound a bit squaky.

Lou
VK3ALB

At 17:17 18/02/2009, you wrote:
>
> I've never had a FT series rig, but understand that they all have
>sweep tubes for finals amp tubes, AND THESE TUBES ARE HARD (EXPENSIVE)
>to replace. The Kenwoods 520s use the old 6146 which are still easy
>to find. This is just one thing you might keep in mind. WA5EDX

20277. Re: [TS-520_820_530_830] TS-520S versus FT-101Z

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-18 20:58:00 UTC
From: martin
Topic: 20256 Message: 20277

Hi. Well, having owned a TS-520, and a Yaesu FT-902DM (the final successor to the FT-101ZD) I can give some info. The FT-902Dm did NOT use the 6JS6C tubes like the FT-101E series radios did. It used 6146Bs like the TS-520. While the TS-520 was a better radio than the FT-101E (I did have both at the same time, side by side in the shack), I would have to consider the FT-902DM superior to the TS-520.

Here is why:
The TS-520 was a basic HF radio, while the FT-902Dm was Yaesu's top of the line HF radio at the time. Both were good radios but the FT-902DM had more features, such as a notch filter, IF shift (labled Width), tunable audio filter (for CW, though it was cool for PSK31), and it had a memory that could be used to work split without an external VFO. The FT-902DM has a few features that the FT-101ZD lacks.

Either the TS-520 or the FT-101ZD should serve well.

For those who want to know, I consider the TS-520 superior to the FT-101E series radios. The FT-101E series used 6JS6C TV sweep tubes. At the time, these were easier to get, and less expensive than the 6146B tubed used in the TS-520 radios, but the 6JS6C was not nearly as rugged, nor as tolerant of abuse. The TS-520 that I had always got better TX audio reports and had better RX audio than the FT-101E.

TTYL

too_brute wrote:
> Hi folks,
>
> I'm trying to figure out the major differences between the FT-101Z and
> the TS-520S. It seems the TS-520 has a more relaxed sound on RX. I own
> a FT-101Z and I'm looking for a TS-520S for the club station PI5ALB.
> Please Help!
>
> 73!
>
> Bas de PH0BAS
>
>

--
CUL8R

KB0HAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html

"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

20278. Re: oscilloscope

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-18 21:28:58 UTC
From: Wim Penders
Topic: 20259 Message: 20278

A scope is a very useful instrument and one that you can find for
little money every now and then because they are sold by people that
cannot work with it or have no use for it at all.
About bandwith: for normal work a 2x 20Mhz is very useful, higher is
better, special if you use it for RF measurements instead of a RF
voltmeter, wich it can easely replace.

I use myself a Philips 2x 60 Mhz oscilloscope, because I could get it
for a reasonable price (around $150-200), but for monitoring my
transmitted audio I use a 15Mhz scope that I bought for $30 (Had to
repair it first), and that is more than satisfactory for the most
measurements you will make, because they are all in the audio range.

To look for the purity of a 40 Mhz signal, a spectrum analyser is your
instrument of choice, but will cost more than the rest of your shack.
It all depends how much use you will make of it.

Buy a simple one to start with, and a good book on how to use it to
your satisfaction, you will not be sorry.

73, Wim PA0PGA

--- In TS-520_820_530_830@yahoogroups.com, "w0szv" <skip4450@...> wrote:
>
> I have a T599D that has quit on me. also a few other KW hybrids that
> could use an alignment. After reading the e-mails for a few months it
> looks to me that a oscilloscope would be very helpful. any suggestions
> on what to look for in a decent used scope for radio repair work?
> looking for some ideas on something that will work, but not bread the
> bank. thanks w0szv
>

20279. Re: What is a good rig cabinet cleaner?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-18 21:31:30 UTC
From: Wim Penders
Topic: 20265 Message: 20279

Dishwashing soap, a stiff paintbrush and elbow grease.

73, Wim PA0PGA

--- In TS-520_820_530_830@yahoogroups.com, "wayneg" <wayne15857@...>
wrote:
>
> I have a TS-520 in excellent working condition but cabinet could use a
> good cleaning. Can anyone recommend a good cleaning agent?
>
> Thank you.
>
> Wayne/NM3B
>

20280. Re: [TS-520_820_530_830] Re: TS-520S versus FT-101Z

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-18 19:34:49 UTC
From: Jeramy Ross
Topic: 20256 Message: 20280

That is true of most of the 101 series; however, at least one of the last models used 6146Bs in the final (101EZ I believe).

Another issue was that at least the early models included the 11M band. That made them a popular, no modification needed choice for CB and "freeband" activity, and evidence of abuse are not uncommon. I have an example that I picked up from a yard sale that has a scorched plate choke, and the band switch sections in the PA compartment have a nice carbon buildup around the pads for 11/10 meters. Something else to look for as well.

Jeramy / W5XTL

Sent from my BlackBerry® wireless device from U.S. Cellular

-----Original Message-----
From: "jbyroncrowe" <jbyroncrowe@yahoo.com>

Date: Wed, 18 Feb 2009 06:17:02
To: <TS-520_820_530_830@yahoogroups.com>
Subject: [TS-520_820_530_830] Re: TS-520S versus FT-101Z

I've never had a FT series rig, but understand that they all have
sweep tubes for finals amp tubes, AND THESE TUBES ARE HARD (EXPENSIVE)
to replace. The Kenwoods 520s use the old 6146 which are still easy
to find. This is just one thing you might keep in mind. WA5EDX

Yahoo! Groups Links

20281. TS-530S Fan

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-18 19:25:31 UTC
From: n5vtu
Topic: 20281 Message: 20281

Hi all,

I'm the proud new owner of TS-530S that appears to be in very good condition considering it's age. Received with the rig was the original Kenwood owner's manual and original sevice manual. Neither manual mentions much about the fan on the rig, other than it having one. The fan on this rig seems to run slow (and extremely quiet) compared to the fans on the solid state rigs I'm familiar with. Since this is my first tube rig, I'm not sure what's considered "normal". Does this sound correct?

Thanks in advance for your replies

Stephen
N5VTU

20282. Re: [TS-520_820_530_830] TS-530S Fan

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-18 22:11:49 UTC
From: Bill Scurlock
Topic: 20281 Message: 20282

yes, quiet is correct.

Bill, K5GCW
----- Original Message -----
From: n5vtu
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, February 18, 2009 1:25 PM
Subject: [TS-520_820_530_830] TS-530S Fan

Hi all,

I'm the proud new owner of TS-530S that appears to be in very good condition considering it's age. Received with the rig was the original Kenwood owner's manual and original sevice manual. Neither manual mentions much about the fan on the rig, other than it having one. The fan on this rig seems to run slow (and extremely quiet) compared to the fans on the solid state rigs I'm familiar with. Since this is my first tube rig, I'm not sure what's considered "normal". Does this sound correct?

Thanks in advance for your replies

Stephen
N5VTU

[Non-text portions of this message have been removed]

20283. Re: [TS-520_820_530_830] Re: oscilloscope

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-18 22:33:29 UTC
From: Ron Pearson
Topic: 20259 Message: 20283

I picked up an old Tektronix 475 200mHz scope on Ebay for $175.00. Came with a probe and a bunch of little probe attachments. Works perfectly.
 Ron/W5RCP

100% CW, 100% of the Time
Fists#6259 & cc#1775, ARS#1799, FP#1047, NAQCC#483, SKCC#2922,
QRP-ARCI#13328, Houston QRP Club, HQRP Fists#11025, KCARC/Abilene, Zombie#839

From: Wim Penders <wpenders@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, February 18, 2009 3:28:58 PM
Subject: [TS-520_820_530_830] Re: oscilloscope

A scope is a very useful instrument and one that you can find for
little money every now and then because they are sold by people that
cannot work with it or have no use for it at all.
About bandwith: for normal work a 2x 20Mhz is very useful, higher is
better, special if you use it for RF measurements instead of a RF
voltmeter, wich it can easely replace.

I use myself a Philips 2x 60 Mhz oscilloscope, because I could get it
for a reasonable price (around $150-200), but for monitoring my
transmitted audio I use a 15Mhz scope that I bought for $30 (Had to
repair it first), and that is more than satisfactory for the most
measurements you will make, because they are all in the audio range.

To look for the purity of a 40 Mhz signal, a spectrum analyser is your
instrument of choice, but will cost more than the rest of your shack.
It all depends how much use you will make of it.

Buy a simple one to start with, and a good book on how to use it to
your satisfaction, you will not be sorry.

73, Wim PA0PGA

--- In TS-520_820_530_830@yahoogroups.com, "w0szv" <skip4450@...> wrote:
>
> I have a T599D that has quit on me. also a few other KW hybrids that
> could use an alignment. After reading the e-mails for a few months it
> looks to me that a oscilloscope would be very helpful. any suggestions
> on what to look for in a decent used scope for radio repair work?
> looking for some ideas on something that will work, but not bread the
> bank. thanks w0szv
>

Yahoo! Groups Links

[Non-text portions of this message have been removed]

20284. Re: TS-530S Fan

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-18 22:35:08 UTC
From: w5rkl
Topic: 20281 Message: 20284

Hello Stephen,

I recommend cleaning the fan and surrounding area. Over time dust and dirt building up on the fan blades and the surrounding area/components acting as a "blanket". Dust and dirt also reduces the flow of air and slows the fan down.

Turn the power off, let the radio sit idle for at least 10 minutes so the HV can bleed down to zero. Use an insulated screw driver, not a wooden handled one, open the top of the final cage and short the final amplifier's RF choke to ground at the base of the choke. Be careful and don't damage the surrounding components and wiring on the choke.

Use canned air and a small loose brush to remove dust and dirt that has built up over time. There is no lubrication required for the fan just keep it clean. Don't forget to remove the dust and dirt that has collected on the final tubes themselves. A fan will do nothing to keep the finals cool if the tubes are covered in dust and dirt. The fan normally operates quietly, barely heard.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Bill Scurlock" <k5gcw@...>
wrote:
>
> yes, quiet is correct.
>
> Bill, K5GCW
> ----- Original Message -----
> From: n5vtu
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, February 18, 2009 1:25 PM
> Subject: [TS-520_820_530_830] TS-530S Fan
>
>
> Hi all,
>
> I'm the proud new owner of TS-530S that appears to be in very good
> condition considering it's age. Received with the rig was the
> original Kenwood owner's manual and original sevice manual. Neither
> manual mentions much about the fan on the rig, other than it having
> one. The fan on this rig seems to run slow (and extremely quiet)
> compared to the fans on the solid state rigs I'm familiar with. Since
> this is my first tube rig, I'm not sure what's considered "normal".

> Does this sound correct?
>
> Thanks in advance for your replies
>
> Stephen
> N5VTU
>
>
>
>
> [Non-text portions of this message have been removed]
>

20285. Re: What is a good rig cabinet cleaner?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-18 23:10:44 UTC
From: chris_yipyap_com
Topic: 20265 Message: 20285

Orange GoJo or other hand cleaner. Not the pumice kind.
And then a soft toothbrush to swirl it around.

--- In TS-520_820_530_830@...m, "wayneg" <wayne15857@...>
wrote:
>
> I have a TS-520 in excellent working condition but cabinet could use a
> good cleaning. Can anyone recommend a good cleaning agent?
>
> Thank you.
>
> Wayne/NM3B
>

20286. TS-520S 15m band deade on receive and transmit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-18 22:44:55 UTC
From: mutlydogbone
Topic: 20286 Message: 20286

Anyone have any experience with just the 15m band not working on receive or transmit? Everything else is fine. Cleaned the bandswitch to no avail. Can't find any visual indications of a problem. WB2JAY

20287. TS-820 On to the next problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-18 23:22:10 UTC
From: chris_yipyap_com
Topic: 20287 Message: 20287

Having finally gotten over my 2 year hurdle, I have some drive coming through the transmit mixer on the RF board.

But not much is happening after that.

I think I probably have problems in the final amplifier circuit somewhere, but I definitely am not getting much out of the driver tube.

So, I figured it was time to go back and make sure all of the tuned circuits were doing their thing to deliver the maximum smoke to the driver and then the finals.

I started with the frequency counter looking at the VXO board to get all of the bands set up on the right frequency. Problem #1 - 80 meters is way off. I'll have to dig into that one and see whats up. Maybe my crystal has drifted. But I can't get it up past about 11.8 Mhz before the little slug is nearly falling out. Everything else tuned up just fine, just a little touch needed.

Then I went on to the alignment of the coils board. Tweaking the "ant" coils makes a noticeable volume change in my headphones. The "mix" coils seem to have no effect at all. On output the driver coils don't do a thing, and the "mix" coils again do nothing. So... Problem #2 - the coil board isn't doing what it is supposed to. I'm thinking maybe it's the bandswitch? I don't know. The Drive knob definitely does have an effect on both receive and transmit. So at least some of the tuned circuit effect is in play.

more of my TS-820 saga as it develops....

Chris - w0ep

20288. Re: oscilloscope

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-18 23:25:00 UTC
From: al_kozakiewicz
Topic: 20259 Message: 20288

I have a Tektronix 475 (200 mHz) just like the one I used as a technician in the early 70's, when it was state-of-the-art. The 465 (100 mHz? or 150?) is the same except for the bandwidth.

Built like a tank. I see them on ebay selling anywhere between $75 and $400, depending on condition. MAKE SURE YOU GET DECENT PROBES!

One thing about a scope - as long as you don't need to use it for accurate voltage or time/frequency measurements, you don't have to worry too much about calibration. A lot of what I use mine (which hasn't been calibrated in 25 years) for in radio repair is looking at waveforms and null/peak adjustments - all relative and not absolute measurements. If I had the standards, I could calibrate it, but who has standards?

Al
AB2ZY

--- In TS-520_820_530_830@yahoogroups.com, "w0szv" <skip4450@...> wrote:
>
> I have a T599D that has quit on me. also a few other KW hybrids that
> could use an alignment. After reading the e-mails for a few months it
> looks to me that a oscilloscope would be very helpful. any
suggestions
> on what to look for in a decent used scope for radio repair work?
> looking for some ideas on something that will work, but not bread the
> bank. thanks w0szv
>

20289. Re: [TS-520_820_530_830] TL-922A

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-19 01:27:02 UTC
From: Jerry J Seay
Topic: 20266 Message: 20289

Exactly, a 3db gain forward on a small beam or yagi is equivalent to 160 -190watts on 10m. Six db is equivalent to 360-380watts on 10m and all of this from your original 80-90watts. Antenna's like this can be tuned to do even better. Now, move to 75/80m or 40m and the game changes considerably. A good amp in these bands will put your signal S9+20 above the noise floor and you will attract a lot of CQ's.

73's

Jerry, KE5PUT

On Wednesday 18 February 2009 14:39:06 martin wrote:
> Hi. Jerry. You are correct. I worked many U.S. States and foreign
> countries on 10M back in the early 1990s. 10M was open during
> daylight hours every day, and sometimes at night also. I was a Tech
> Plus back then, so of course I wasn't using an amp. My antenna was an
> 11M "Ringo" vertical. The antenna was so named because it was a 1/2
> wave antenna with a ring at the base, and a fixed matching stub. SWR
> was adjusted by moving a lead around the ring.
>
> My radios were an old Kenwood TS-520, and a Uniden HR2510. I got rid
> of the HR2510 though, as at the time I couldn't find out how to
> eliminate the built-in "talkback feature". I still do not have an
> amp, nor do I have any plans to acquire one in the future. Unlike
> some, I do not consider an amp necessary. I would rather put my time,
> effort, and money into better antennas.
>
> TTYL
>
> Jerry J Seay wrote:
> > Why would you want a amp on 10m? When the band is open, (it hasn't been
> > in a long long time), 80 -90 Watts will get you around the world with S9
> > reports.

20290. Re: [TS-520_820_530_830] TL-922A

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-19 03:41:11 UTC
From: basketoak@cox.net
Topic: 20266 Message: 20290

Gordon,

After reading your email, I did some research on Rich Measures web site....he certainly is a perfectionist and seems an expert in amplifier design and operation. He lists more than 10 mods he would make.

To get another perspective, I then went to the QRZ web site for 922 postings to read some comments on his many recommendations to mod the 922 to implement various fixes. Seems that several of the recommended mods are "life saving" in nature, while others are important only if you use your 922 in certain modes.

As Rich points out, any of the mods void the warrantee,,,,,,but are any in force at this point in time?

I would be interested if anyone knows an expert who does the "Measures" mods for a fee....

73's
Dave
KG4MGB

---- N6WK <n6wk@...> wrote:

==========
My TL-922A has 10 meters already.
It just doesn't show on the Band switch.

Gordon
N6WK

basketoak@... wrote:
>
> Ray/Group....
>
> I too would be interested in any info, esp in a mod to add 10 mtr
> capability,
>
> 73's
> Dave
> KG4MGB
>
> **********
> ---- ke6icd <ke6icd@... <mailto:ke6icd%40verizon.net>> wrote:
>
> ==========
> I just purchased a TL-922A amp and was wondering if anyone in the
> group has information about the amp they would like to share? I have
> the Rich Measures mods kits i just purchased. and i just installed a

> fuse on
> the tube heater xformer.
>
> Thanx for any help provided!
> Ray Wolfbrandt
> KE6ICD 73s
>
> --
> Dave Beadner
>
>

--
Dave Beadner

20291. Re: TL-922A

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-19 05:52:37 UTC
From: Gordon
Topic: 20266 Message: 20291

All warranties on the TL-922/A are long ago worn out :-)

--- In TS-520_820_530_830@yahoogroups.com, <basketoak@...> wrote:
>
> Gordon,
>
> After reading your email, I did some research on Rich Measures web site....he certainly is a perfectionist and seems an expert in amplifier design and operation. He lists more than 10 mods he would make.
>
> To get another perspective, I then went to the QRZ web site for 922 postings to read some comments on his many recommendations to mod the 922 to implement various fixes. Seems that several of the recommended mods are "life saving" in nature, while others are important only if you use your 922 in certain modes.
>
> As Rich points out, any of the mods void the warrantee,,,,,,but are any in force at this point in time?
>
> I would be interested if anyone knows an expert who does the "Measures" mods for a fee....
>
> 73's
> Dave
> KG4MGB
>
>
> ---- N6WK <n6wk@...> wrote:
>
> =============
> My TL-922A has 10 meters already.
> It just doesn't show on the Band switch.
>
> Gordon
> N6WK
>
>
>
> basketoak@... wrote:
> >
> > Ray/Group....
> >
> > I too would be interested in any info, esp in a mod to add 10 mtr
> > capability,

> >
> > 73's
> > Dave
> > KG4MGB
> >
> > **********
> > ---- ke6icd <ke6icd@... <mailto:ke6icd%40verizon.net>> wrote:
> >
> > ==========
> > I just purchased a TL-922A amp and was wondering if anyone in the
> > group has information about the amp they would like to share? I have
> > the Rich Measures mods kits i just purchased. and i just installed a
> > fuse on
> > the tube heater xformer.
> >
> > Thanx for any help provided!
> > Ray Wolfbrandt
> > KE6ICD 73s
> >
> > --
> > Dave Beadner
> >
> >
>
> --
> Dave Beadner
>

20292. FRIED FRONT END TS830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-19 14:17:27 UTC
From: Bob
Topic: 20292 Message: 20292

Fried the front end of my 830s.....had another radio on and xmitted....830s was turned on (no ant) and ooopppppps overloaded the front end. 830 does not rcv now and calibrator doesn't even move s meter.....so I'm guessing I blew out the 160 meter coil, (common problem) maybe the mosfet next to it.
Any one know where I can get these parts??

I need helpppppppp BOB N3OO

20293. FS - SCAF-1 Audio Filter by Idiom Press EXCELLENT CONDITION!!!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-19 16:11:30 UTC
From: Howard Weinstein
Topic: 20293 Message: 20293

Gang,

I have an Idiom Press SCAF-1 Audio Filter that is now excess to my needs. I used it extensively with my Kenwood TS-520S which now is temporarily residing with Ken K4EAA for it's 30 year check-up.

The SCAF-1 is probably THE BEST audio filter on the market today. It is a cosmetic 9.5 and an electrical 10.0 and it meets or exceeds factory specifications. In other words it works GREAT!!!

$65.00 includes shipping via USPS Priority Mail with Delivery Confirmation anywhere CONUS.

Satisfaction Guaranteed or your money back less shipping costs.

I prefer payment via PayPal to:

k3hw@...

as this allows me to create a shipping label and get your SCAF-1 Audio Filter to the Post Office within hours instead of days!

Tnx es 72/73 de K3HW

Howard Weinstein
103 Barnes street
Ashley PA 18706

20294. Re: [TS-520_820_530_830] TS-520S 15m band deade on receive and transmit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-19 16:24:17 UTC
From: Daniel TOESCA
Topic: 20286 Message: 20294

Check the 1st oscillator output with a RF voltmeter - I have found some old band oscillator Xtals from Trio or Kenwood dead.

If it's that issue, order one from a good supplier or try to find a semi-dead rig for spare parts.

73's - Daniel, ON5PY

2009/2/18, mutlydogbone <mutlydogbone@...>:
>
> Anyone have any experience with just the 15m band not working on
> receive or transmit? Everything else is fine. Cleaned the bandswitch
> to no avail. Can't find any visual indications of a problem. WB2JAY
>
>
>

[Non-text portions of this message have been removed]

20295. Re: [TS-520_820_530_830] FRIED FRONT END TS830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-19 19:19:49 UTC
From: dennis hatch
Topic: 20292 Message: 20295

Rewind the coil. RF Parts.

--- On Thu, 2/19/09, Bob <bob7255khz@yahoo.com> wrote:

From: Bob <bob7255khz@...>
Subject: [TS-520_820_530_830] FRIED FRONT END TS830S
To: TS-520_820_530_830@yahoogroups.com
Date: Thursday, February 19, 2009, 8:17 AM

Fried the front end of my 830s.....had another radio on and
xmitted....830s was turned on (no ant) and ooopppppps overloaded the
front end. 830 does not rcv now and calibrator doesn't even move s
meter.....so I'm guessing I blew out the 160 meter coil, (common
problem) maybe the mosfet next to it.
Any one know where I can get these parts??

I need helpppppppp BOB N3OO

Yahoo! Groups Links

[Non-text portions of this message have been removed]

20296. Re: [TS-520_820_530_830] FRIED FRONT END TS830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-19 19:40:39 UTC
From: Jeramy Ross
Topic: 20292 Message: 20296

I belive Ken K4EAA has directions on rewinding the coil on his web site.

- Jeramy / W5XTL

Sent from my BlackBerry® wireless device from U.S. Cellular

-----Original Message-----
From: dennis hatch <dennishhatch@yahoo.com>

Date: Thu, 19 Feb 2009 11:19:49
To: <TS-520_820_530_830@yahoogroups.com>
Subject: Re: [TS-520_820_530_830] FRIED FRONT END TS830S

Rewind the coil. RF Parts.

--- On Thu, 2/19/09, Bob <bob7255khz@yahoo.com> wrote:

From: Bob <bob7255khz@yahoo.com>
Subject: [TS-520_820_530_830] FRIED FRONT END TS830S
To: TS-520_820_530_830@yahoogroups.com
Date: Thursday, February 19, 2009, 8:17 AM

Fried the front end of my 830s.....had another radio on and
xmitted....830s was turned on (no ant) and ooopppppps overloaded the
front end. 830 does not rcv now and calibrator doesn't even move s
meter.....so I'm guessing I blew out the 160 meter coil, (common
problem) maybe the mosfet next to it.
Any one know where I can get these parts??

I need helpppppppp BOB N3OO

Yahoo! Groups Links

[Non-text portions of this message have been removed]

Yahoo! Groups Links

20297. SCAF-1 Audio Filter by Idiom Press - SOLD!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-19 20:53:16 UTC
From: Howard Weinstein
Topic: 20297 Message: 20297

Gang,

Idiom Press SCAF-1 Audio Filter is SOLD!

Thanks for all of your inquiries and interest

de Howard K3HW

20298. Re: TS-530S Fan

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-19 21:25:23 UTC
From: james27613
Topic: 20281 Message: 20298

Hi,

A few drops of light oil at the fan bearings
is a good idea. very small holes in the
bearing cups, sometimes hard to see if
there is some dust buildup on the fan.

73 james

20299. Re: oscilloscope

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-19 21:36:21 UTC
From: james27613
Topic: 20259 Message: 20299

hi,

For anyone who wants to learn what
how to use a scope

This book is out of print but easy to find
on ebay or amazon used.

Use of the Oscilloscope, A programmed Text

By Charles H. Roth, Jr. about $ 5.00 used

Hardcover: 222 pages
Publisher: Prentice Hall (November 27, 1970)

ISBN-10: 0139393978
ISBN-13: 978-0139393976

20300. KENWOOD 530SP WITH SP230 SPEAKER FOR SALE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-19 22:35:20 UTC
From: radioman1759
Topic: 20300 Message: 20300

I have a Kenwood TS-530SP ham radio transceiver for sale. It has the narrow ssb filter in addition to the regular filter. It is in very good cosmetic and working condition with no known issues. I have replaced the original high voltage capacitors with new ones. I have the original instruction manual, service manual, and box for it. I am also including the matching speaker SP-230.It does not have the original box. Both units have a few minor scratches on their tops. I'm asking $500 for both units plus shipping (I'm guessing $40-50, this is heavy). If you want to buy the radio only, I'm asking $400 plus shipping. I'll sell the speaker for $100 plus shipping by itself. I have photos if you like. You can reach me at radioman1759@....

20301. TS820 inside cage cover wanted

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-19 22:53:16 UTC
From: sherwinb
Topic: 20301 Message: 20301

Mine is missing. I think I should find one and install it, shouldn't I??

K9KWY

20302. TS 520 Schematic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-20 01:44:10 UTC
From: Gordon
Topic: 20302 Message: 20302

Anyone have a TS-520 Schematic that shows Voltages?
I have the one for the TS-520S , but I am working on a plain TS-520.

Thanks,
Gordon
N6WK

20303. Re: TS 830 PLL problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-20 03:22:26 UTC
From: Seewoosankar Mandary
Topic: 20303 Message: 20303

Hello Group,
I have a TS 830S with the following problems.

The display is ok every where except on 10mhz and 21 mhz where iot is dark
and blank, with no receive and transmit.
From the service manual I gather that 7mhz 10mhz and 21/24 mhz both
bands share the same vco and associated components.
Q1 for 7/10 and Q6 for 21/24 mhz.
I have tried to do the VCO adjustment as per section 9 of Page 35 of
service manual, but the display does not come on 10 and 21.
Since I am new to this rig , any indication from you experienced people
will be most welcome.
Regards
Jacky 3B8CF

Please Visit :
http://www.qsl.net/3b8cf
http://www.qsl.net/mars
-------Original Message-------

[Non-text portions of this message have been removed]

Yahoo! Groups Links

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.237 / Virus Database: 270.11.0/1959 - Release Date: 02/18/09
20:55:00

[Non-text portions of this message have been removed]

20304. Re: [TS-520_820_530_830] Re: TS-530S Fan

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-20 04:49:55 UTC
From: martin
Topic: 20281 Message: 20304

Hi Mike. In the manual to my TS-530S on page 25 there is a section labled "Fan Motor Lubrication. In that section, owners are advised to dust out the final compartment and apply a drop of light machine oil to the front and rear fan motor bearings every 6 months. There is also a warning about unplugging the radio, and discharging high voltage.

TTYL

w5rkl wrote:
> Hello Stephen,
>
There is no lubrication required for the fan
Hi Mike. On page 25 of the manual for my TS-530S is a section
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at http://www.defectivebydesign.org/what_is_drm"

20305. Re: [TS-520_820_530_830] TL-922A

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-20 07:30:28 UTC
From: Adam Wade
Topic: 20266 Message: 20305

On Wednesday, February 18, 2009 7:41 PM [Zulu -7],
basketoak@... <basketoak@...> wrote:

> After reading your email, I did some research on Rich Measures web
> site....he certainly is a perfectionist and seems an expert in
> amplifier design and operation. He lists more than 10 mods he would
> make.

I installed his several available mods into my 3x 811A amp (Ameritron
AL-811) and everything works as advertised and then some. The negative RF
feedback is flawless and I now drive my amp with a full 100W from my
exciter. No amount of reactance in an antenna system seems to cause the
amp
any headaches now; no arcing, just "auto foldback" as if it were a modern
solid-state PA. I spoke with him a good bit regarding the mods and their
installation, and he was extremely helpful, while not just outright giving
me "tab a, slot b" directions (so I actually learned a few things!)

> I would be interested if anyone knows an expert who does the
> "Measures" mods for a fee....

Not sure I would qualify as an "expert", but I have quite successfully
installed glitch diodes and resistor, replacement low-Q VHF parasitic
suppressors, and a negative RF feedback resistor, having learned more than
enough to understand the inner workings of a linear insofar as being able
to
suss the function and location of the mods despite my amp's schematic
looking fairly little like the ones in his literature. I'd be happy to
install those mods in someone's HF amp, but I think shipping would be the
deal-breaker there. Amps tend to be heavy and a bit bulky, so I'd probably
get a quote on freight before committing to having the amp serviced out of
your local area.

Drop me a private email if you want to pursue my installing Mr. Measures'
kits into your amp. :)

! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
! "I write down everything I want to remember. That way, instead !
! of spending a lot of time trying to remember what it is I wrote !
! down, I spend z time looking for the paper I wrote it down on." !
! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !

20306. Re: [TS-520_820_530_830] TS820 inside cage cover wanted

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-20 10:06:22 UTC
From: Gordon J. C. Pearce MM3YEQ
Topic: 20301 Message: 20306

On Thu, 2009-02-19 at 22:53 +0000, sherwinb wrote:
> Mine is missing. I think I should find one and install it, shouldn't I??
>
> K9KWY

If it's anything like the TS520 cover, it's just an L-shaped bit of metal with ventilation slots in the side and a hole to get at the neutralising trimmer. There's probably some small capacitive effect with the top caps of the PA valves, and obviously it keeps prying fingers away from the 800V anode supply. While I was repairing my TS520, I ran it without the PA cover in place with seemingly no ill-effects (nice clean output, at least) - but I was very careful around those anode caps!

No doubt this will trigger hoots of derision from the purists, but have you thought about just getting a bit of mild steel and making a cover? It won't take long if you've got a decent vice, a drill and a few hand tools.

Gordon

20307. Re: TS-530S Fan

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-20 14:14:55 UTC
From: Bob Mansker
Topic: 20281 Message: 20307

Easy to pull the fan & take the motor & blades from the metal housing...
I use an injection needle & put some synthetic oil (Amsoil) into each
of the bearings...
Bob

--- In TS-520_820_530_830@yahoogroups.com, "n5vtu" <stephenburns@...>
wrote:
>
> Hi all,
>
> I'm the proud new owner of TS-530S that appears to be in very good
> condition considering it's age. Received with the rig was the
> original Kenwood owner's manual and original sevice manual. Neither
> manual mentions much about the fan on the rig, other than it having
> one. The fan on this rig seems to run slow (and extremely quiet)
> compared to the fans on the solid state rigs I'm familiar with. Since
> this is my first tube rig, I'm not sure what's considered "normal".
> Does this sound correct?
>
> Thanks in advance for your replies
>
> Stephen
> N5VTU
>

20308. Re: oscilloscope

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-20 11:35:23 UTC
From: Eldon Scott
Topic: 20259 Message: 20308

thanks for the info. found the book on "abebooks" for $2.49. cost $12.00 for shipping and handling but should be worth it. w0szv

[Non-text portions of this message have been removed]

20309. Kenwood Digital Freq Converter (VFO) DFC-230

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-20 20:03:40 UTC
From: Ed Karsin
Topic: 20309 Message: 20309

Anybody have an idea what this external Kenwood DFC-230 VFO is worth? It has a digital readout, plugs directly into theTS-120, TS-130 and TS-830. Can also store 4 memories. If anyone has any ideas, I'd appreciate it. From what I can tell, it seems to be pretty rare compared to the other Kenwood remote VFOs.
Tnx es 73... Ed-W3BMW

20310. Re: TS-530S Fan

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-20 20:06:47 UTC
From: Michael
Topic: 20281 Message: 20310

Radio Shack has a small tube of lubricating oil with a precision
applier on it called Precision Lubricator with minature teflon balls
in it. Would that be a good source of lubricating oil for the Fan on
all the radio's.

Thanks
Mike

--- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@...> wrote:
>
> Hi Mike. In the manual to my TS-530S on page 25 there is a section
> labled "Fan Motor Lubrication. In that section, owners are advised
to
> dust out the final compartment and apply a drop of light machine
oil
> to the front and rear fan motor bearings every 6 months. There is
> also a warning about unplugging the radio, and discharging high
> voltage.
>
> TTYL
>
> w5rkl wrote:
> > Hello Stephen,
> >
> There is no lubrication required for the fan
> Hi Mike. On page 25 of the manual for my TS-530S is a section
> >
> >
>
> --
> CUL8R
>
> KBOHAE kb0hae@... Martin
Campbell
>
> A Satisfied Sidux Linux user! To get Sidux go to:
> www.sidux.com/index.html
> "Protect your digital freedom and privacy, eliminate DRM, learn
more
> at http://www.defectivebydesign.org/what_is_drm"
>

20311. Re: [TS-520_820_530_830] Kenwood Digital Freq Converter (VFO) DFC-230

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-20 20:25:03 UTC
From: N6WK
Topic: 20309 Message: 20311

Ed,
I had a nice one and Sold it about a year ago for $150.00

73,
Gordon

Ed Karsin wrote:
>
> Anybody have an idea what this external Kenwood DFC-230 VFO is worth?
> It has a digital readout, plugs directly into theTS-120, TS-130 and TS-
> 830. Can also store 4 memories. If anyone has any ideas, I'd appreciate
> it. From what I can tell, it seems to be pretty rare compared to the
> other Kenwood remote VFOs.
> Tnx es 73... Ed-W3BMW
>
>

20312. Re: [TS-520_820_530_830] Kenwood Digital Freq Converter (VFO) DFC-230

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-20 20:46:16 UTC
From: David Rogers
Topic: 20309 Message: 20312

I have bought and sold several and still have a couple of DFC-230's. I was always amazed that they weren't more in demand. The prices generally run $135.00 to $175.00, more or less, in good operating and cosmetic condition with the up/down mic.

I saw one being sold at a swapfest a few years ago, with the mic, with a sign saying it was a 2m rig. I explained what it was; the guy thanked me; then left the sign on designating it as a 2m rig. Oh, well . . . .

David, WA7ZYQ

----- Original Message -----
From: Ed Karsin
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, February 20, 2009 12:03 PM
Subject: [TS-520_820_530_830] Kenwood Digital Freq Converter (VFO) DFC-230

Anybody have an idea what this external Kenwood DFC-230 VFO is worth?
It has a digital readout, plugs directly into theTS-120, TS-130 and TS-
830. Can also store 4 memories. If anyone has any ideas, I'd appreciate
it. From what I can tell, it seems to be pretty rare compared to the
other Kenwood remote VFOs.
Tnx es 73... Ed-W3BMW

[Non-text portions of this message have been removed]

20313. LDG AT-200Pro Automatic Antenna Tuner

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-21 02:22:29 UTC
From: freddhardeng
Topic: 20313 Message: 20313

I just got an LDG AT-200Pro Automatic Antenna Tuner and plan to use with my TS-520S. I want it to power up with my rig so my question concerns the DG-5 12vdc supply on the rear of the 520.

I use that 12vdc connection now to power my digital display (not a DG-5) but need to find out if it is capable of also handling 750mw to power the tuner. That 750mw consumption is MAX and would occur only if all tuner relays were working at the same time (not likely, or even probable) and would last for only a few seconds. The tuner paperwork suggest a 2a inline fuse. When the tuner is not actively tuning, it 'sleeps' and draws negligible power. Memories are in EEPROMS and draw NO power.

Question: Where can I find the amount of power available that I can safely draw from that (DG-5) supply connection on my 520s?

Thanks in advance,
- Larry - NX3G

20314. Re: What is a good rig cabinet cleaner?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-21 02:54:55 UTC
From: wayneg
Topic: 20265 Message: 20314

--- In TS-520_820_530_830@yahoogroups.com, "chris_yipyap_com"
<chris@...> wrote:
>
>
>
> Orange GoJo or other hand cleaner. Not the pumice kind.
> And then a soft toothbrush to swirl it around.
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "wayneg" <wayne15857@>
> wrote:
> >
> > I have a TS-520 in excellent working condition but cabinet could
use a
> > good cleaning. Can anyone recommend a good cleaning agent?
> >
> > Thank you.
> >
> > Wayne/NM3B
> >
>
Chris,
Thank you for the tip on the cleaning agent.

Wayne

20315. Re: What is a good rig cabinet cleaner?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-21 02:58:05 UTC
From: wayneg
Topic: 20265 Message: 20315

--- In TS-520_820_530_830@yahoogroups.com, "james" <james@...> wrote:
>
> > I have a TS-520 in excellent working condition but cabinet
> > could use a good cleaning. Can anyone recommend a good
> > cleaning agent?
>
>
> I've had good safe results with Murphy's Oil Soap. I first
> discovered it when I needed something to clean the interior
> of a car but was unhappy with the way everything left films
> and didn't clean very well.
>
> Murphy's cleans very well at low concentrations and hasn't
> damaged paints or plastics yet.
>
James,
That is exactly what my wife recommended so know we have it here. hi
Thanks.
Wayne

20316. Re: [TS-520_820_530_830] Re: TS 830 PLL problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-21 11:38:00 UTC
From: Joan de vk5kyo
Topic: 20303 Message: 20316

Hi Jacky

Has it ever worked for you?
If it hasn't worked since you purchased it, I suspect it maybe a CB
modification.
My 830 behaved similarly on a couple of band settings. I just don't
remember which ones.
If it is the modification I suspect, then check out some of the switches
(in my case, the NB was used) for any
modifications or foreign wiring.
Any additional wiring usually stands out. You know, different coloring,
size, not in the standard cable ties etc.
I hope this helps.
Please let the group know what you find.

Joan vk5kyo

Seewoosankar Mandary wrote:
>
> Hello Group,
> I have a TS 830S with the following problems.
>
> The display is ok every where except on 10mhz and 21 mhz where iot is dark
> and blank, with no receive and transmit.
> >From the service manual I gather that 7mhz 10mhz and 21/24 mhz both
> bands share the same vco and associated components.
> Q1 for 7/10 and Q6 for 21/24 mhz.
> I have tried to do the VCO adjustment as per section 9 of Page 35 of
> service manual, but the display does not come on 10 and 21.
> Since I am new to this rig , any indication from you experienced people
> will be most welcome.
> Regards
> Jacky 3B8CF
>
> Please Visit :
> http://www.qsl.net/3b8cf <http://www.qsl.net/3b8cf>
> http://www.qsl.net/mars <http://www.qsl.net/mars>
> -------Original Message-------
>
>
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>

No virus found in this outgoing message.
Checked by AVG - www.avg.com
Version: 8.0.237 / Virus Database: 270.11.2/1963 - Release Date: 02/20/09 19:22:00

[Non-text portions of this message have been removed]

20317. Re: [TS-520_820_530_830] Re: TS 830 PLL problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-21 12:07:44 UTC
From: Seewoosankar Mandary
Topic: 20303 Message: 20317

Hello Joan,
Thanks for response.
The problem is definitely in the PLL board because when I replace it with a known good one the rig has display every where.
I have tried to adjust T1 which is related to both 7 and 10 but can get response only on 7 but on 10 there is no response and of course no display.
I have also measured the blk line which is low indicating that the pll is in lock condx.
My problem is to get advice from somebody who has ever tweaked T1. Since this is for 2 bands , I want to know how this is done . Guess there must be some compromise between the 2 bands.
Regards and thanks
Jacky

Please Visit :
http://www.qsl.net/3b8cf
http://www.qsl.net/mars
-------Original Message-------

From: Joan de vk5kyo
Date: 2/21/2009 4:38:08 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: TS 830 PLL problem

Hi Jacky

Has it ever worked for you?
If it hasn't worked since you purchased it, I suspect it maybe a CB modification.
My 830 behaved similarly on a couple of band settings. I just don't remember which ones.
If it is the modification I suspect, then check out some of the switches (in my case, the NB was used) for any
modifications or foreign wiring.
Any additional wiring usually stands out. You know, different coloring, size, not in the standard cable ties etc.
I hope this helps.
Please let the group know what you find.

Joan vk5kyo

Seewoosankar Mandary wrote:
>
> Hello Group,
> I have a TS 830S with the following problems.
>

> The display is ok every where except on 10mhz and 21 mhz where iot is dark
> and blank, with no receive and transmit.
> >From the service manual I gather that 7mhz 10mhz and 21/24 mhz both
> bands share the same vco and associated components.
> Q1 for 7/10 and Q6 for 21/24 mhz.
> I have tried to do the VCO adjustment as per section 9 of Page 35 of
> service manual, but the display does not come on 10 and 21.
> Since I am new to this rig , any indication from you experienced people
> will be most welcome.
> Regards
> Jacky 3B8CF
>
> Please Visit :
> http://www.qsl.net/3b8cf <http://www.qsl.net/3b8cf>
> http://www.qsl.net/mars <http://www.qsl.net/mars>
> -------Original Message-------
>
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>

No virus found in this outgoing message.
Checked by AVG - www.avg.com
Version: 8.0.237 / Virus Database: 270.11.2/1963 - Release Date: 02/20/09
19:22:00

[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.237 / Virus Database: 270.11.2/1963 - Release Date: 02/20/09
19:22:00

[Non-text portions of this message have been removed]

20318. Re: What is a good rig cabinet cleaner?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-21 03:08:34 UTC
From: wayneg
Topic: 20265 Message: 20318

--- In TS-520_820_530_830@yahoogroups.com, "Wim Penders"
<wpenders@...> wrote:
>
> Dishwashing soap, a stiff paintbrush and elbow grease.
>
> 73, Wim PA0PGA
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "wayneg" <wayne15857@>
> wrote:
> >
> > I have a TS-520 in excellent working condition but cabinet could
use a
> > good cleaning. Can anyone recommend a good cleaning agent?
> >
> > Thank you.
> >
> > Wayne/NM3B
> >
>
Wim,
Thanks for info and nothing can beat good old "elbow grease".

Wayne

20319. Re: What is a good rig cabinet cleaner?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-21 03:06:52 UTC
From: wayneg
Topic: 20265 Message: 20319

--- In TS-520_820_530_830@yahoogroups.com, dennis hatch
<dennishhatch@...> wrote:
>
> Lysol Basin Tube & Tile cleaner. Wet the cabinet with water first
or it will cause streaks... Rinse with HOT water and you will be
amazed at the "crud" that comes off. Dry, and then spray with a
light coat of "Pledge" polish and buff with a flanel cloth.
>
> --- On Tue, 2/17/09, wayneg <wayne15857@...> wrote:
>
> From: wayneg <wayne15857@...>
> Subject: [TS-520_820_530_830] What is a good rig cabinet cleaner?
> To: TS-520_820_530_830@yahoogroups.com
> Date: Tuesday, February 17, 2009, 9:11 PM
>
> I have a TS-520 in excellent working condition but cabinet could
use a
> good cleaning. Can anyone recommend a good cleaning agent?
>
> Thank you.
>
> Wayne/NM3B
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
> [Non-text portions of this message have been removed]
>
Dennis,
Like your advice on the Pledge. Been getting some great advice with
this post!
Thanks again.
Wayne

20320. Re: What is a good rig cabinet cleaner?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-21 03:03:57 UTC
From: wayneg
Topic: 20265 Message: 20320

--- In TS-520_820_530_830@yahoogroups.com, Nu7z@... wrote:
>
>
> Hi there -- Clean cabinets can be pretty intense if your not careful. I have a restoration business and here is what I do to try and preserve the finish. First, if there are
> stickers, tags, markings, etc. use a soft rag with WD40 or better yet - Ronsonal lubricant. This will loosen the glue and remove it without a scratch. It will take some rubbing and time but worth it in the long run. Second, I use 409 with a soft toothbrush. This gets most of the rest. Some folks swear by simple green, but I think either one is just about as good. Once you have the cabinet clean, the secret is "does it look close to its normal color?" then you can go over it one time, lightly with rubbing compound if you like and then several coats of a good hard wax.
>
> Recently, I found a new product that shows promise, McGuires scratch remover --
>
> Anyway, that's my take on it -- I do a lot of cabinets during the year and it seems to work -- GL
>
> Rick NU7Z
>
>
>
>
>
>
>
> -----Original Message-----
> From: wayneg <wayne15857@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tue, 17 Feb 2009 7:11 pm
> Subject: [TS-520_820_530_830] What is a good rig cabinet cleaner?
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>
> I have a TS-520 in excellent working condition but cabinet could
use a
>
> good cleaning. Can anyone recommend a good cleaning agent?
>
>
>
> Thank you.
>
>
>
> Wayne/NM3B
>
>Rick,
Appreciate you reply on the cleaning agents. Have received a number
of replies and still not sure what I'll go with. Don't think it will
be WD-40 but like the 409 idea. It really isn't all that bad but as
good as condition the rig is in want to make it look as close to
original as possible.
Thanks.
Wayne
>
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> [Non-text portions of this message have been removed]
>

20321. Re: [TS-520_820_530_830] Re: What is a good rig cabinet cleaner?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-21 18:06:42 UTC
From: WA6RKN
Topic: 20265 Message: 20321

Well now....

Take the radio out of the cabinet. Carefully remove any and all stickers.

Then..............

Put the cabinet in the dishwasher and run it through the pots and pans cycle.

Heck...I even did that with a radio I bought that came from an SK who smoked....heavily...the radio had an 1.8 inch of nicotine film....Took all the tubes out...removed anything that wasn't moisture safe...relays, etc. and ran it through the dishwasher. It was spotless when done. Lubed all the pots and switches, DeoxIt on all the blades and tube sockets, let the radio sit for a couple of weeks, fired it up and it works great. (FT-101EE)

Yup..the dishwasher can be your friend!

Joe Wolfe
WA6RKN

----- Original Message -----
From: "wayneg" <wayne15857@...>
Subject: [TS-520_820_530_830] Re: What is a good rig cabinet cleaner?

20322. Re: [TS-520_820_530_830] Re: What is a good rig cabinet cleaner?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-21 18:19:30 UTC
From: martin
Topic: 20265 Message: 20322

Hi. You definitely want to remove the speak from the top cover!

TTYL

WA6RKN wrote:
> Well now....
>
> Take the radio out of the cabinet. Carefully remove any and all stickers.
>
> Then..............
>
> Put the cabinet in the dishwasher and run it through the pots and pans
> cycle.
>
> Heck...I even did that with a radio I bought that came from an SK who
> smoked....heavily...the radio had an 1.8 inch of nicotine film....Took all
> the tubes out...removed anything that wasn't moisture safe...relays, etc.
> and ran it through the dishwasher. It was spotless when done. Lubed all
> the pots and switches, DeoxIt on all the blades and tube sockets, let the
> radio sit for a couple of weeks, fired it up and it works great. (FT-101EE)
>
> Yup..the dishwasher can be your friend!
>
> Joe Wolfe
> WA6RKN
>
> ----- Original Message -----
> From: "wayneg" <wayne15857@...>
> Subject: [TS-520_820_530_830] Re: What is a good rig cabinet cleaner?
>
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

20323. Re: [TS-520_820_530_830] Re: What is a good rig cabinet cleaner?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-21 18:25:38 UTC
From: WA6RKN
Topic: 20265 Message: 20323

You think?

LOL.

Yes...definitely!

Joe Wolfe
WA6RKN

----- Original Message -----
From: "martin" <kb0hae@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, February 21, 2009 10:19 AM
Subject: Re: [TS-520_820_530_830] Re: What is a good rig cabinet cleaner?

> Hi. You definitely want to remove the speak from the top cover!

20324. FS - 2 - 30 MHz RF Amplifier 5 watts in 100 watts out Good Condition

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-21 20:46:56 UTC
From: Howard Weinstein
Topic: 20324 Message: 20324

Gang,

I want to keep this amplifier out of the hands of CB'ers so it is only going to be listed for hams:

This is a Sidewinder 100 Broadband Linear Amplifier by Hayden Electronics Inc. It works 2 through 30 MHz and will generate about 100 watts with 5 watts of excitation.

It has a broadband receiver preamplifier good for about 21 dB of gain. It is capable of handling CW/AM/SSB input @ a max of 5 watts.

I have used this amplifier in the mobile when I get frustrated or fed up with my QRP gear. It produces a respectable signal on 20 and 40 meters from my mobile and I am only using a couple of Ham Sticks.

$79.00 via PayPal to k3hw@... includes shipping anywhere CONUS via USPS Priority Mail with Delivery Confirmation.

Thank you for your interest

72/73 de K3HW

Howard Weinstein
103 Barnes Street
Ashley PA 18706

20325. Re: [TS-520_820_530_830] Re: TS 830 PLL problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-22 04:56:45 UTC
From: Joan de vk5kyo
Topic: 20303 Message: 20325

Hi Jacky

Very good that you have isolated it down to a board. Mind you, you
didn't answer my questions.
Just because a board change fixes the problem, does not necessarily
means that it is faulty.
It may have a track cut or a diode removed as part of a modification May
I suggest this, have the
2 boards side by side, and look for any differences in track
modifications, extra/removed components etc.
There is a variety of mods to get these working on the CB band.
You have to be satisfied and rule out all these possibilities.
Naturally, if this set has always worked for you, and now it is not,
then you can throw out the
modification theory, and look for the fault.
The fact that the PLL is low can be because it is really locked, or
circuitry has failed, and there is
no voltage to be measured. Is the voltage consistent when locked on
another band? You can also
try changing bands quickly and observe if it momentary goes to an
unlocked state.
Happy hunting.

Joan vk5kyo

Seewoosankar Mandary wrote:
>
> Hello Joan,
> Thanks for response.
> The problem is definitely in the PLL board because when I replace it
> with a
> known good one the rig has display every where.
> I have tried to adjust T1 which is related to both 7 and 10 but can get
> response only on 7 but on 10 there is no response and of course no
> display.
> I have also measured the blk line which is low indicating that the pll
> is in
> lock condx.
> My problem is to get advice from somebody who has ever tweaked T1. Since
> this is for 2 bands , I want to know how this is done . Guess there
> must be
> some compromise between the 2 bands.
> Regards and thanks
> Jacky
>
> Please Visit :

> http://www.qsl.net/3b8cf <http://www.qsl.net/3b8cf>
> http://www.qsl.net/mars <http://www.qsl.net/mars>
> -------Original Message-------
>
> From: Joan de vk5kyo
> Date: 2/21/2009 4:38:08 PM
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Subject: Re: [TS-520_820_530_830] Re: TS 830 PLL problem
>
> Hi Jacky
>
> Has it ever worked for you?
> If it hasn't worked since you purchased it, I suspect it maybe a CB
> modification.
> My 830 behaved similarly on a couple of band settings. I just don't
> remember which ones.
> If it is the modification I suspect, then check out some of the switches
> (in my case, the NB was used) for any
> modifications or foreign wiring.
> Any additional wiring usually stands out. You know, different coloring,
> size, not in the standard cable ties etc.
> I hope this helps.
> Please let the group know what you find.
>
> Joan vk5kyo
>
>
> Seewoosankar Mandary wrote:
> >
> > Hello Group,
> > I have a TS 830S with the following problems.
> > >
> > > The display is ok every where except on 10mhz and 21 mhz where iot
> is dark
> > and blank, with no receive and transmit.
> > >From the service manual I gather that 7mhz 10mhz and 21/24 mhz both
> > bands share the same vco and associated components.
> > Q1 for 7/10 and Q6 for 21/24 mhz.
> > I have tried to do the VCO adjustment as per section 9 of Page 35 of
> > service manual, but the display does not come on 10 and 21.
> > Since I am new to this rig , any indication from you experienced people
> > will be most welcome.
> > Regards
> > Jacky 3B8CF
> >
> > Please Visit :
> > http://www.qsl.net/3b8cf <http://www.qsl.net/3b8cf>
> <http://www.qsl.net/3b8cf <http://www.qsl.net/3b8cf>>
> > http://www.qsl.net/mars <http://www.qsl.net/mars>

> <http://www.qsl.net/mars <http://www.qsl.net/mars>>
> > -------Original Message-------
>
>

No virus found in this outgoing message.
Checked by AVG - www.avg.com
Version: 8.0.237 / Virus Database: 270.11.2/1965 - Release Date: 02/21/09 15:36:00

[Non-text portions of this message have been removed]

20326. Re: TS 830 PLL problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-22 08:16:06 UTC
From: Seewoosankar Mandary
Topic: 20303 Message: 20326

Hello Joan,
Thanks for advice.
The rig has been in use with me for the last 20 years so there was no mods made for cb . One morning it just stopped working on the 10 and 21 mhz bands.I have removed all the boards (except the RF board) and cleaned the plugs with contact cleaner. It is a fault which just developped by it self.
All the voltages specially the VCO voltage on TP 1 on all bands which are working are consistent. For the 2 bands which are not working the VCO voltage is 0.7 volt instead of 2.8 to 6.0 depending on the frequency(lower edge,middle, or upper edge)
I will check the board for cracks.
Thanks
Jacky 3B8CF

In TS-520_820_530_830@yahoogroups.com, Joan de vk5kyo <VK5KYO@...> wrote:
>
> Hi Jacky
>
> Very good that you have isolated it down to a board. Mind you, you
> didn't answer my questions.
> Just because a board change fixes the problem, does not necessarily
> means that it is faulty.
> It may have a track cut or a diode removed as part of a modification
May
> I suggest this, have the
> 2 boards side by side, and look for any differences in track
> modifications, extra/removed components etc.
> There is a variety of mods to get these working on the CB band.
> You have to be satisfied and rule out all these possibilities.
> Naturally, if this set has always worked for you, and now it is not,
> then you can throw out the
> modification theory, and look for the fault.
> The fact that the PLL is low can be because it is really locked, or
> circuitry has failed, and there is
> no voltage to be measured. Is the voltage consistent when locked on
> another band? You can also
> try changing bands quickly and observe if it momentary goes to an
> unlocked state.
> Happy hunting.
>
> Joan vk5kyo
>
>

> Seewoosankar Mandary wrote:
> >
> > Hello Joan,
> > Thanks for response.
> > The problem is definitely in the PLL board because when I replace it
> > with a
> > known good one the rig has display every where.
> > I have tried to adjust T1 which is related to both 7 and 10 but
can get
> > response only on 7 but on 10 there is no response and of course no
> > display.
> > I have also measured the blk line which is low indicating that the
pll
> > is in
> > lock condx.
> > My problem is to get advice from somebody who has ever tweaked T1.
Since
> > this is for 2 bands , I want to know how this is done . Guess there
> > must be
> > some compromise between the 2 bands.
> > Regards and thanks
> > Jacky
> >
> > Please Visit :
> > http://www.qsl.net/3b8cf <http://www.qsl.net/3b8cf>
> > http://www.qsl.net/mars <http://www.qsl.net/mars>
> > -------Original Message-------
> >
> > From: Joan de vk5kyo
> > Date: 2/21/2009 4:38:08 PM
> > To: TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>
> > Subject: Re: [TS-520_820_530_830] Re: TS 830 PLL problem
> >
> > Hi Jacky
> >
> > Has it ever worked for you?
> > If it hasn't worked since you purchased it, I suspect it maybe a CB
> > modification.
> > My 830 behaved similarly on a couple of band settings. I just don't
> > remember which ones.
> > If it is the modification I suspect, then check out some of the
switches
> > (in my case, the NB was used) for any
> > modifications or foreign wiring.
> > Any additional wiring usually stands out. You know, different
coloring,
> > size, not in the standard cable ties etc.
> > I hope this helps.
> > Please let the group know what you find.

> >
> > Joan vk5kyo
> >
> >
> > Seewoosankar Mandary wrote:
> > >
> > > Hello Group,
> > > I have a TS 830S with the following problems.
> > >
> > > The display is ok every where except on 10mhz and 21 mhz where iot
> > is dark
> > > and blank, with no receive and transmit.
> > > >From the service manual I gather that 7mhz 10mhz and 21/24 mhz both
> > > bands share the same vco and associated components.
> > > Q1 for 7/10 and Q6 for 21/24 mhz.
> > > I have tried to do the VCO adjustment as per section 9 of Page 35 of
> > > service manual, but the display does not come on 10 and 21.
> > > Since I am new to this rig , any indication from you experienced
people
> > > will be most welcome.
> > > Regards
> > > Jacky 3B8CF
> > >
> > > Please Visit :
> > > http://www.qsl.net/3b8cf <http://www.qsl.net/3b8cf>
> > <http://www.qsl.net/3b8cf <http://www.qsl.net/3b8cf>>
> > > http://www.qsl.net/mars <http://www.qsl.net/mars>
> > <http://www.qsl.net/mars <http://www.qsl.net/mars>>
> > > -------Original Message-------
> >
> >
>
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> ----------
>
>
> No virus found in this outgoing message.
> Checked by AVG - www.avg.com
> Version: 8.0.237 / Virus Database: 270.11.2/1965 - Release Date:
02/21/09 15:36:00
>
>
> [Non-text portions of this message have been removed]
>

20327. Re: KENWOOD 530SP WITH SP230 SPEAKER FOR SALE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-22 16:51:28 UTC
From: radioman1759
Topic: 20300 Message: 20327

--- In TS-520_820_530_830@yahoogroups.com, "radioman1759"
<radioman1759@...> wrote:
>
> I have a Kenwood TS-530SP ham radio transceiver for sale. It has the
> narrow ssb filter in addition to the regular filter. It is in very
> good cosmetic and working condition with no known issues. I have
> replaced the original high voltage capacitors with new ones. I have
> the original instruction manual, service manual, and box for it. I am
> also including the matching speaker SP-230.It does not have the
> original box. Both units have a few minor scratches on their tops. I'm
> asking $500 for both units plus shipping (I'm guessing $40-50, this
> is heavy). If you want to buy the radio only, I'm asking $400 plus
> shipping. I'll sell the speaker for $100 plus shipping by itself. I
> have photos if you like. You can reach me at radioman1759@...
>
Speaker has been sold, radio still for sale $400 OBO.

20328. Re: [TS-520_820_530_830] Re: KENWOOD 530SP WITH SP230 SPEAKER FOR SALE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-22 20:51:15 UTC
From: Charles Coffee
Topic: 20300 Message: 20328

I am interested, would you happen to have an idea for shipping to area code 21158? Not
sure of the weight for the TS-530. Thanks

Chuck, KJ4G

On Sun, Feb 22, 2009 at 11:51 AM, radioman1759 <radioman1759@...>wrote:

> --- In TS-520_820_530_830@yahoogroups.com, "radioman1759"
> <radioman1759@...> wrote:
> >
> > I have a Kenwood TS-530SP ham radio transceiver for sale. It has the
> > narrow ssb filter in addition to the regular filter. It is in very
> > good cosmetic and working condition with no known issues. I have
> > replaced the original high voltage capacitors with new ones. I have
> > the original instruction manual, service manual, and box for it. I am
> > also including the matching speaker SP-230.It does not have the
> > original box. Both units have a few minor scratches on their tops. I'm
> > asking $500 for both units plus shipping (I'm guessing $40-50, this
> > is heavy). If you want to buy the radio only, I'm asking $400 plus
> > shipping. I'll sell the speaker for $100 plus shipping by itself. I
> > have photos if you like. You can reach me at radioman1759@...
> >
> Speaker has been sold, radio still for sale $400 OBO.
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

[Non-text portions of this message have been removed]

20329. 7 pin remote connector

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-23 01:02:55 UTC
From: martin
Topic: 20300 Message: 20329

Hi Guys. Does anyone know if the 7 pin Din remote connector on the TS-130S is a standard size? Anyone know a good source for these? I have a couple of friends that want to have foot switches wired to the remote connector.

TTYL

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

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www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at http://www.defectivebydesign.org/what_is_drm"

20330. Re: [TS-520_820_530_830] 7 pin remote connector

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-23 01:04:22 UTC
From: martin
Topic: 20300 Message: 20330

Hi Again. I meant the TS-530S, though I think the remote connectors
on several kenwood radios are the same.

martin wrote:
> Hi Guys. Does anyone know if the 7 pin Din remote connector on the
> TS-130S is a standard size? Anyone know a good source for these? I
> have a couple of friends that want to have foot switches wired to the
> remote connector.
>
> TTYL
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
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"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

20331. Re: [TS-520_820_530_830] 7 pin remote connector

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-23 02:04:27 UTC
From: Dave Gmail
Topic: 20300 Message: 20331

i found (on the 850) that the remote is on a pin that can be used on a 5 pin
din(older keyboard type connector), on pin 3 i beleive, so I never had to
use the 7 pin for that or a speaker connection. the 130 I think is the same

----- Original Message -----
From: "martin" <kb0hae@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, February 22, 2009 8:02 PM
Subject: [TS-520_820_530_830] 7 pin remote connector

> Hi Guys. Does anyone know if the 7 pin Din remote connector on the
> TS-130S is a standard size? Anyone know a good source for these? I
> have a couple of friends that want to have foot switches wired to the
> remote connector.
>
> TTYL
>
> --
> CUL8R
>
> KBOHAE kb0hae@... Martin Campbell
>
> A Satisfied Sidux Linux user! To get Sidux go to:
> www.sidux.com/index.html
> "Protect your digital freedom and privacy, eliminate DRM, learn more
> at http://www.defectivebydesign.org/what_is_drm"
>
>
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>
> Yahoo! Groups Links
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>

20332. Question about tune up procedure - TS 820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-23 01:51:32 UTC
From: jay_hendershott
Topic: 20332 Message: 20332

Hello group,

I have a tune up question regarding my 820S. When I follow the steps in the manual and as outlined on numerous sites including this group. I find that after loading and redipping until I reach roughly 225ma on the meter, when I switch the meter to RF I find the needle is always pegged tight aginst the stop. I then lower the load control until the needle is close to the edge of full power and then redip the plate control. I then find that the plate current is lower the the magic 225ma number. Is this normal to run into or am I missing a step? Is my needle in need of calibration possibly? Any tip are appreciated.

Thanks

JR

20333. WTB: AT-230 tuner

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-22 21:21:38 UTC
From: Sid Grant
Topic: 20333 Message: 20333

Greetings,
I am looking for a AT-230 tuner in good shape, fully functional to accompany my TS-830S. Email me with the particulars.
TNX and 73,

Sid, W8SFC

20334. Re: [TS-520_820_530_830] Question about tune up procedure - TS 820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-23 12:59:39 UTC
From: martin
Topic: 20332 Message: 20334

HI JR. The RF setting of the meter in these radios is not calibrated
in watts or anything. There is an adjustment on the bacl of the radio
for the RF meter reading. Basically follow the tune up procedure in
the manual. Do NOT use the LOAD control to reduce power in CW or Tune
mode. Use the CAR (carrier) level knob. After tune up set the CAR
control so that you have 225ma, and then switch to RF and set the RF
Volt control on the back of the rig so that the meter reads about 2/3
of full scale.

TTYL

jay_hendershott wrote:
> Hello group,
>
> I have a tune up question regarding my 820S. When I follow the steps
> in the manual and as outlined on numerous sites including this group.
> I find that after loading and redipping until I reach roughly 225ma on
> the meter, when I switch the meter to RF I find the needle is always
> pegged tight aginst the stop. I then lower the load control until the
> needle is close to the edge of full power and then redip the plate
> control. I then find that the plate current is lower the the magic
> 225ma number. Is this normal to run into or am I missing a step? Is
> my needle in need of calibration possibly? Any tip are appreciated.
>
> Thanks
>
> JR
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

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at http://www.defectivebydesign.org/what_is_drm"

20335. Re: Question about tune up procedure - TS 820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-23 14:56:32 UTC
From: w5rkl
Topic: 20332 Message: 20335

Hello Jay,

As previous stated the RF meter sensitivity is controlled by a pot on the rear of the 820. The pot is located directly above the rear panel's SO-239 antenna connector.

The CAR control is used to control RF output from the 820 in TUNE and CW modes. The MIC gain and ALC circuit controls RF output from the 820 in sideband mode.

The LOAD control should never be used to lower power output.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "jay_hendershott" <jrcomp@...> wrote:
>
> Hello group,
>
> I have a tune up question regarding my 820S. When I follow the steps
> in the manual and as outlined on numerous sites including this group.
> I find that after loading and redipping until I reach roughly 225ma on
> the meter, when I switch the meter to RF I find the needle is always
> pegged tight aginst the stop. I then lower the load control until the
> needle is close to the edge of full power and then redip the plate
> control. I then find that the plate current is lower the the magic
> 225ma number. Is this normal to run into or am I missing a step? Is
> my needle in need of calibration possibly? Any tip are appreciated.
>
> Thanks
>
> JR
>

20336. Re: Question about tune up procedure - TS 820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-23 15:19:03 UTC
From: jay_hendershott
Topic: 20332 Message: 20336

Great, thanks for the help!

JR

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello Jay,
>
> As previous stated the RF meter sensitivity is controlled by a pot
on
> the rear of the 820. The pot is located directly above the rear
> panel's SO-239 antenna connector.
>
>
> The CAR control is used to control RF output from the 820 in TUNE
and
> CW modes. The MIC gain and ALC circuit controls RF output from the
820
> in sideband mode.
>
> The LOAD control should never be used to lower power output.
>
>
> 73
> Mike
> W5RKL
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "jay_hendershott"
> <jrcomp@> wrote:
> >
> > Hello group,
> >
> > I have a tune up question regarding my 820S. When I follow the
steps
> > in the manual and as outlined on numerous sites including this
group.
> > I find that after loading and redipping until I reach roughly
225ma on
> > the meter, when I switch the meter to RF I find the needle is
always
> > pegged tight aginst the stop. I then lower the load control
until the
> > needle is close to the edge of full power and then redip the

plate
> > control. I then find that the plate current is lower the the
magic
> > 225ma number. Is this normal to run into or am I missing a
step? Is
> > my needle in need of calibration possibly? Any tip are
appreciated.
> >
> > Thanks
> >
> > JR
> >
>

20337. Re: mic pin-outs.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-23 15:23:51 UTC
From: ralph gee
Topic: 20300 Message: 20337

Hi everyone,

 Sorry to ask a question that has probably been asked before.

I need the pin-outs for a Shure Model CM17L for my ts-520se.

Thanks in advance.
 Best 73,
Ralph
K3FXR

From: Dave Gmail <ve3wej@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, February 22, 2009 9:04:27 PM
Subject: Re: [TS-520_820_530_830] 7 pin remote connector

i found (on the 850) that the remote is on a pin that can be used on a 5 pin
din(older keyboard type connector), on pin 3 i beleive, so I never had to
use the 7 pin for that or a speaker connection. the 130 I think is the same

----- Original Message -----
From: "martin" <kb0hae@mchsi. com>
To: <TS-520_820_530_ 830@yahoogroups. com>
Sent: Sunday, February 22, 2009 8:02 PM
Subject: [TS-520_820_ 530_830] 7 pin remote connector

> Hi Guys. Does anyone know if the 7 pin Din remote connector on the
> TS-130S is a standard size? Anyone know a good source for these? I
> have a couple of friends that want to have foot switches wired to the
> remote connector.
>
> TTYL
>
> --
> CUL8R
>
> KBOHAE kb0hae@mchsi. com Martin Campbell
>
> A Satisfied Sidux Linux user! To get Sidux go to:
> www.sidux.com/ index.html
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>
>
> ------------ --------- --------- ------
>

> Yahoo! Groups Links
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>
>

[Non-text portions of this message have been removed]

20338. For Sale: Kenwood TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-23 15:13:10 UTC
From: archer5949
Topic: 20338 Message: 20338

.
.
I have a really nice TS-830s for sale. Operation is excellent, couple of marks on the case(no dents or dings) face is perfect. Comes with:
TS-830s
Original boxes
Copy of manual
Copy of service manual
Power cord
All switches and knobs are tight. (no VFO backlash very tight) Not the 'Gold' model. You wouldn't be disappointed in this 830.
Will double box and ship FedEx insured.
$425 little help with shipping.
73,
Kevin
kn0a at arrl.net
.
.

20339. TS-830S powered by 13,8V

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-23 15:22:37 UTC
From: ea2cmn
Topic: 20339 Message: 20339

Hi all!

Recently I have bought a ts-830s on ebay (seller said the rig has TX fail). When I received it, the power wire is for 13,8 volts and doesn't have the DS-2 option installed. When I'm testing RX is ok, but when switch-on the heater audio and freq. take off. Can be possible what this supply way only is for RX? (I think without DS-2 option the rig cannot get HV for TX).Then I would need to change the pins in power connector to AC 240V operation? Somebody can tell me the pins for 240V?
The manual is not very clear for it.

Thanks
Jose
EA2CMN

20340. Re: [TS-520_820_530_830] TS-830S powered by 13,8V

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-23 17:23:19 UTC
From: Gordon JC Pearce
Topic: 20339 Message: 20340

ea2cmn wrote:
> Hi all!
>
> Recently I have bought a ts-830s on ebay (seller said the rig has TX
> fail). When I received it, the power wire is for 13,8 volts and
> doesn't have the DS-2 option installed. When I'm testing RX is ok, but
> when switch-on the heater audio and freq. take off. Can be possible
> what this supply way only is for RX? (I think without DS-2 option the
> rig cannot get HV for TX).Then I would need to change the pins in
> power connector to AC 240V operation? Somebody can tell me the pins
> for 240V?
> The manual is not very clear for it.

The manual has a diagram of the plug, with 110, 240 and 12v operation links.

If it's the same as a TS-520 (and why would it not be?) then looking at
the back of the radio, for 240v you want (view in fixed-width font)

```
E jj
--||
----
--||
NLJ
```

E, L and N are earth, live and neutral
the two pins with "j" above them are linked
the pin with J and the one above it are linked
all the rest are disconnected

Verify this with a manual before you start though.

20341. Re: mic pin-outs. SHURE 444

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-23 19:37:03 UTC
From: ralph gee
Topic: 20300 Message: 20341

Looking for pin outs for the shure 444 desk mic. for my ts520se

Thanks in advance
 Best 73,
Ralph
K3FXR

[Non-text portions of this message have been removed]

20342. Re: [TS-520_820_530_830] Re: mic pin-outs. SHURE 444

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-23 22:35:09 UTC
From: Dave Gmail
Topic: 20300 Message: 20342

can you supply manuals for both mikes?? did you find them online?? the wiring for the 530 is in the manual, but yoiu need to idenfiy the wires on the original to do it, colors between brands may be different for function

----- Original Message -----
From: "ralph gee" <paharleyguy2001@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, February 23, 2009 2:37 PM
Subject: [TS-520_820_530_830] Re: mic pin-outs. SHURE 444

Looking for pin outs for the shure 444 desk mic. for my ts520se

Thanks in advance
Best 73,
Ralph
K3FXR

[Non-text portions of this message have been removed]

Yahoo! Groups Links

20343. TS-820 Rectifier Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-24 03:52:32 UTC
From: jsloss
Topic: 20343 Message: 20343

Need a rectifier board. Traces on the one I have are shot. Help!

Joe k7mks

[Non-text portions of this message have been removed]

20344. Re: [TS-520_820_530_830] TS-820 Rectifier Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-24 05:18:23 UTC
From: Lou Blasco
Topic: 20343 Message: 20344

If you can't find a board you can repair the tracks with tinned copper wire.

Lou
VK3ALB

At 14:52 24/02/2009, you wrote:
>Need a rectifier board. Traces on the one I have are shot. Help!

20345. Re: TS-820 Rectifier Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-24 19:36:21 UTC
From: Bob Mansker
Topic: 20343 Message: 20345

I have the Rect. board (X49-1090-00) for the TS-820S....
Would need $22.00 plus $3.00 to mail to you...
Thanks,
Bob
KE5FTF
****

--- In TS-520_820_530_830@yahoogroups.com, "jsloss" <k7mks@...> wrote:
>
> Need a rectifier board. Traces on the one I have are shot. Help!
>
> Joe k7mks
>
> [Non-text portions of this message have been removed]
>

20346. Re: [TS-520_820_530_830] Re: TS-820 Rectifier Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-24 19:52:27 UTC
From: jsloss
Topic: 20343 Message: 20346

Thanks Bob but I'll have to pass.

Joe

[Non-text portions of this message have been removed]

20347. Re: [TS-520_820_530_830] Re: TS 830 PLL problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-25 02:37:41 UTC
From: Seewoosankar Mandary
Topic: 20303 Message: 20347

Hello Group,
I resoldered all the point on the PLL board. Fault still the same.
The latest I have found is the the DCBA level on Connector 2 of the PLL is not as it should be as per page 4 of the service manual.
For exemple a band which is working ok the level is ok but for exemple 10mhz which is not working gives 0011 instead of 0111.
I have removed connector 2 and measured directly from the plug , and I find the level ok but when I put back the plug the level is not good.
Is it possible that IC Q16 is faulty and is loading the band data? One more thing, the blanking signal is High when lock and low when out of lock.
Your views are welcome.
Jacky 3B8CF

Please Visit :
http://www.qsl.net/3b8cf
http://www.qsl.net/mars
-------Original Message-------

From: Seewoosankar Mandary
Date: 2/22/2009 9:32:24 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS 830 PLL problem

Hello Joan,
Thanks for advice.
The rig has been in use with me for the last 20 years so there was no mods made for cb . One morning it just stopped working on the 10 and 21 mhz bands.I have removed all the boards (except the RF board) and cleaned the plugs with contact cleaner. It is a fault which just developped by it self.
All the voltages specially the VCO voltage on TP 1 on all bands which are working are consistent. For the 2 bands which are not working the VCO voltage is 0.7 volt instead of 2.8 to 6.0 depending on the frequency(lower edge,middle, or upper edge)
I will check the board for cracks.
Thanks
Jacky 3B8CF

In TS-520_820_530_830@yahoogroups.com, Joan de vk5kyo <VK5KYO@...> wrote:
>
> Hi Jacky
>
> Very good that you have isolated it down to a board. Mind you, you
> didn't answer my questions.
> Just because a board change fixes the problem, does not necessarily

> means that it is faulty.
> It may have a track cut or a diode removed as part of a modification
May
> I suggest this, have the
> 2 boards side by side, and look for any differences in track
> modifications, extra/removed components etc.
> There is a variety of mods to get these working on the CB band.
> You have to be satisfied and rule out all these possibilities.
> Naturally, if this set has always worked for you, and now it is not,
> then you can throw out the
> modification theory, and look for the fault.
> The fact that the PLL is low can be because it is really locked, or
> circuitry has failed, and there is
> no voltage to be measured. Is the voltage consistent when locked on
> another band? You can also
> try changing bands quickly and observe if it momentary goes to an
> unlocked state.
> Happy hunting.
>
> Joan vk5kyo
>
>
> Seewoosankar Mandary wrote:
> >
> > Hello Joan,
> > Thanks for response.
> > The problem is definitely in the PLL board because when I replace it
> > with a
> > known good one the rig has display every where.
> > I have tried to adjust T1 which is related to both 7 and 10 but
can get
> > response only on 7 but on 10 there is no response and of course no
> > display.
> > I have also measured the blk line which is low indicating that the
pll
> > is in
> > lock condx.
> > My problem is to get advice from somebody who has ever tweaked T1.
Since
> > this is for 2 bands , I want to know how this is done . Guess there
> > must be
> > some compromise between the 2 bands.
> > Regards and thanks
> > Jacky
> >
> > Please Visit :
> > http://www.qsl.net/3b8cf <http://www.qsl.net/3b8cf>
> > http://www.qsl.net/mars <http://www.qsl.net/mars>
> > -------Original Message-------
> >

> > From: Joan de vk5kyo
> > Date: 2/21/2009 4:38:08 PM
> > To: TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>
> > Subject: Re: [TS-520_820_530_830] Re: TS 830 PLL problem
> >
> > Hi Jacky
> >
> > Has it ever worked for you?
> > If it hasn't worked since you purchased it, I suspect it maybe a CB
> > modification.
> > My 830 behaved similarly on a couple of band settings. I just don't
> > remember which ones.
> > If it is the modification I suspect, then check out some of the
switches
> > (in my case, the NB was used) for any
> > modifications or foreign wiring.
> > Any additional wiring usually stands out. You know, different
coloring,
> > size, not in the standard cable ties etc.
> > I hope this helps.
> > Please let the group know what you find.
> >
> > Joan vk5kyo
> >
> >
> > Seewoosankar Mandary wrote:
> > >
> > > Hello Group,
> > > I have a TS 830S with the following problems.
> > >
> > > The display is ok every where except on 10mhz and 21 mhz where iot
> > is dark
> > > and blank, with no receive and transmit.
> > > >From the service manual I gather that 7mhz 10mhz and 21/24 mhz both
> > > bands share the same vco and associated components.
> > > Q1 for 7/10 and Q6 for 21/24 mhz.
> > > I have tried to do the VCO adjustment as per section 9 of Page 35 of
> > > service manual, but the display does not come on 10 and 21.
> > > Since I am new to this rig , any indication from you experienced
people
> > > will be most welcome.
> > > Regards
> > > Jacky 3B8CF
> > >
> > > Please Visit :
> > > http://www.qsl.net/3b8cf <http://www.qsl.net/3b8cf>
> > <http://www.qsl.net/3b8cf <http://www.qsl.net/3b8cf>>
> > > http://www.qsl.net/mars <http://www.qsl.net/mars>
> > <http://www.qsl.net/mars <http://www.qsl.net/mars>>

> > > -------Original Message-------
> >
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>
> No virus found in this outgoing message.
> Checked by AVG - www.avg.com
> Version: 8.0.237 / Virus Database: 270.11.2/1965 - Release Date:
02/21/09 15:36:00
>
>
> [Non-text portions of this message have been removed]
>

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.237 / Virus Database: 270.11.2/1965 - Release Date: 02/21/09
15:36:00

[Non-text portions of this message have been removed]

20348. TS-820S Counter Module Cover

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-25 06:55:35 UTC
From: jsloss
Topic: 20348 Message: 20348

Need a counter module cover in untarnished condition. Mine is severly discolored and I hesitate to just paint it.

Thanks Joe k7mks

[Non-text portions of this message have been removed]

20349. Re: [TS-520_820_530_830] TS-820S Counter Module Cover

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-25 08:09:23 UTC
From: richard.bown@blueyonder.co.uk
Topic: 20348 Message: 20349

jsloss wrote:
>
>
> Need a counter module cover in untarnished condition. Mine is severly
> discolored and I hesitate to just paint it.
>
> Thanks Joe k7mks
>
>
Hi Joe , just an idea.
Have you tried cleaning it and chemical tinning. The same chemical
tinning agent you can use on pcbs.
--
Best wishes

Richard Bown

##
Registered Linux User 36561
OS: Ubuntu 8.10, Intrepid, on AMD Dual Athlon 64 +4400: 8 GB RAM DDR2
Ham Call: G8JVM , QRA IO82SP, Interests Microwave
##

20350. DFC-230 & TS-530

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-25 11:15:49 UTC
From: hemsley_stephen
Topic: 20350 Message: 20350

Can anyone tell me if the DFC-230 works with the TS-530....the digging
I have done so far mentions the TS-830, but not the TS-530.

Many thanks

Steve

20351. Re: [TS-520_820_530_830] DFC-230 & TS-530

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-25 13:28:03 UTC
From: cparrish104@cfl.rr.com
Topic: 20350 Message: 20351

Hi Steve,

Don't have any direct experience but the TS-530S brochure lists the VFO-240 and the VFO-230 as accessories. The DFC-230 is not listed.

73, Curt, K4TL

---- hemsley_stephen <shemsley@...> wrote:
> Can anyone tell me if the DFC-230 works with the TS-530....the digging
> I have done so far mentions the TS-830, but not the TS-530.
>
> Many thanks
>
> Steve
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

20352. WTB: Clean, fully working TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-26 16:54:26 UTC
From: Jeramy Ross
Topic: 20352 Message: 20352

Hello all,

I need a clean and fully working TS-830S. Cosmetically it needs to have an unblemished face and nothing more than a few scrapes/scratches on the case (I.e. Normal use marks on a well taken care of rig). Electrically it needs to be 100% and with no modifications (other than the addition of filters and the enabling of the WARC bands if done which would be acceptable).

If any one has one for sale or are willing to sale, please let me know the details of the rig (pictures are always appreciated) and how much you want for it.

Thanks in advance and 73s
Jeramy / W5XTL
Sent from my BlackBerry® wireless device from U.S. Cellular

20353. Ft-102

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-26 17:39:03 UTC
From: f5ul01
Topic: 20353 Message: 20353

I'm a full time CW'er and my FT102 is giving me some problems!
Simply, when I key either PC, strait key, bug or keyer, I switch in TX for 3/4 seconds and the VOX release the TX and I do not have any side-tone. I tried to change frequecy, change level, but nothing doing!
So, does anybody with a possible solution on the list?
Thank's in advance
Bob/F5UL

20354. Re: Ft-102

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-26 21:22:27 UTC
From: w5rkl
Topic: 20353 Message: 20354

Hello Bob,

The FT-102 is a Yeasu transceiver. However, a quick review of the
FT-102 schematic appears that the sidetone oscillator transistor, Q05,
on the FT-102's AF board may have failed. Q05 is a 2SC1815Y small
signal NPN transistor.

That's all I can come up with at the moment.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "f5ul01" <f5ul01@...> wrote:
>
> I'm a full time CW'er and my FT102 is giving me some problems!
> Simply, when I key either PC, strait key, bug or keyer, I switch in TX
> for 3/4 seconds and the VOX release the TX and I do not have any side-
> tone. I tried to change frequecy, change level, but nothing doing!
> So, does anybody with a possible solution on the list?
> Thank's in advance
> Bob/F5UL
>

20355. Sad discovery tonight while using my 820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-27 05:47:18 UTC
From: jay_hendershott
Topic: 20355 Message: 20355

Hello Group,

While using my 820S tonight which I recently purchased I decided to switch bands and try the 10 meter positions. To my dismay when I selected the 29.000 Mhz position the digital display switched to 27.675 Mhz. I could not believe my eyes. I verified shortly after that this was not a dirty vfo issue or asign of failing eyesight. I was able to tune the upper end of the 11 meter band to roughly channel 32. The 29.500 Mhz position works as it is supposed to. Only the 29.000 Mhz position has been modified. I am wondering if this is a crystal mod or something more serious. I would like to get this corrected asap. Any help on where to start is appreciated.

Thanks

JR

20356. Re: Sad discovery tonight while using my 820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-27 06:09:14 UTC
From: jay_hendershott
Topic: 20355 Message: 20356

BTW I checked out the file in the files section which talked about reversing the 11 meter mod on the 830S. Would this also pertain to the 820S?

JR

20357. Re: [TS-520_820_530_830] Re: Sad discovery tonight while using my 820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-27 06:51:44 UTC
From: Nu7z@aol.com
Topic: 20355 Message: 20357

Jr -- How sad but true-- This happens all the time, and the funny thing is that when anything comes into my shop for repair, or upgrade, the first thing I check is for CB crystal changes. I have a written hard policy that anything I work on, for any reason, will be stock amateur band. If not, the customer has two choices, take it somewhere else or it goes back to stock! I know that seems harsh, but I won't be responsible for these radios that have been altered out of band. And it really puts me off, to say the least!

But all is not lost, most likely, it is the crystal and you can get one from West Crystal in Vancouver Canada for $11.00. Nice people. Good product too. Then stcik it in there and do a re alignment of the 10 meter band and your good to go.

Sorry, for the long answer -- GL

Rick NU7Z

-----Original Message-----
From: jay_hendershott <jrcomp@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thu, 26 Feb 2009 10:09 pm
Subject: [TS-520_820_530_830] Re: Sad discovery tonight while using my 820S

BTW I checked out the file in the files section which talked about

reversing the 11 meter mod on the 830S. Would this also pertain to the

820S?

JR

[Non-text portions of this message have been removed]

20358. Re: [TS-520_820_530_830] Sad discovery tonight while using my 820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-27 05:50:10 UTC
From: amfone
Topic: 20355 Message: 20358

Look where the 10 meter crystals are suppose to be place in the 829s. Some CB'er has replaced them with those that will work on 11 meters.

easy fix73 Tim wb8uhz

--- On Fri, 2/27/09, jay_hendershott <jrcomp@...> wrote:
From: jay_hendershott <jrcomp@...>
Subject: [TS-520_820_530_830] Sad discovery tonight while using my 820S
To: TS-520_820_530_830@yahoogroups.com
Date: Friday, February 27, 2009, 12:47 AM

Hello Group,

While using my 820S tonight which I recently purchased I decided to

switch bands and try the 10 meter positions. To my dismay when I

selected the 29.000 Mhz position the digital display switched to 27.675

Mhz. I could not believe my eyes. I verified shortly after that this

was not a dirty vfo issue or asign of failing eyesight. I was able to

tune the upper end of the 11 meter band to roughly channel 32. The

29.500 Mhz position works as it is supposed to. Only the 29.000 Mhz

position has been modified. I am wondering if this is a crystal mod or

something more serious. I would like to get this corrected asap. Any

help on where to start is appreciated.

Thanks

JR

[Non-text portions of this message have been removed]

20359. Re: Sad discovery tonight while using my 820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-27 14:50:33 UTC
From: w5rkl
Topic: 20355 Message: 20359

The correct 29.0Mhz crystal frequency is 34.5Mhz, X9, and the crystal
is located on the PD unit inside the PLL assembly.

After replacing the crystal perform the alignment of the 29.0 band.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, amfone <amfone20000@...> wrote:
>
>   Look where the 10 meter crystals are suppose to be place in the
829s. Some CB'er has replaced them with those that will work on 11 meters.
>
> easy fix73 Tim wb8uhz
>
> --- On Fri, 2/27/09, jay_hendershott <jrcomp@...> wrote:
> From: jay_hendershott <jrcomp@...>
> Subject: [TS-520_820_530_830] Sad discovery tonight while using my 820S
> To: TS-520_820_530_830@yahoogroups.com
> Date: Friday, February 27, 2009, 12:47 AM
>
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> Hello Group,
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>
> While using my 820S tonight which I recently purchased I decided to
>
> switch bands and try the 10 meter positions. To my dismay when I
>
> selected the 29.000 Mhz position the digital display switched to 27.675
>
> Mhz. I could not believe my eyes. I verified shortly after that this
>
> was not a dirty vfo issue or asign of failing eyesight. I was able to

>
> tune the upper end of the 11 meter band to roughly channel 32. The
>
> 29.500 Mhz position works as it is supposed to. Only the 29.000 Mhz
>
> position has been modified. I am wondering if this is a crystal mod or
>
> something more serious. I would like to get this corrected asap. Any
>
> help on where to start is appreciated.
>
>
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> Thanks
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> JR
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> [Non-text portions of this message have been removed]
>

20360. TS 820S IF Brd Harnesses

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-27 22:27:27 UTC
From: Bill & Becky Marvin
Topic: 20360 Message: 20360

Hi Group I removed the wire harnesses from IFBrd (IF1 - IF5)

IF1 14pin
IF2 14 pin
IF3 17 pin
IF4 5 pin
IF5 ???? (1) 3 wire/pin) (1) 2 wire/3 pin gnd-nc- r1f

When I attach the harnesses I end up with a uncovered pin on the IF5 end pins on the Brd pins.. The schematic
shows no gap pins unless clearly shown on the IF1-IF3.

Any Help?

Best 73

Bill KB9IV

[Non-text portions of this message have been removed]

20361. Re: TS 820S IF Brd Harnesses

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-27 22:57:31 UTC
From: w5rkl
Topic: 20360 Message: 20361

I'm not sure what you are asking about IF Unit board X48-1150-00, plug IF5. If you are asking if there are any gaps on IF Unit board plug IF5 then yes, there is a gap between IF5 pins 1 and 2 only.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Bill & Becky Marvin" <wmarvin@...> wrote:
>
> Hi Group I removed the wire harnesses from IFBrd (IF1 - IF5)
>
> IF1 14pin
> IF2 14 pin
> IF3 17 pin
> IF4 5 pin
> IF5 ???? (1) 3 wire/pin) (1) 2 wire/3 pin gnd-nc- r1f
>
> When I attach the harnesses I end up with a uncovered pin on the IF5 end pins on the Brd pins.. The schematic
> shows no gap pins unless clearly shown on the IF1-IF3.
>
> Any Help?
>
> Best 73
>
> Bill KB9IV
>
> [Non-text portions of this message have been removed]
>

20362. Re: [TS-520_820_530_830] Re: TS 820S IF Brd Harnesses

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-28 02:53:04 UTC
From: Bill & Becky Marvin
Topic: 20360 Message: 20362

Hi Mike I reversed IF1 which is IF5 thus the # order is changed. My point is IF1 has a unused pin besides the gap?? Which pin is not used?

73

Bill KB9IV

----- Original Message -----
From: w5rkl
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, February 27, 2009 4:57 PM
Subject: [TS-520_820_530_830] Re: TS 820S IF Brd Harnesses

I'm not sure what you are asking about IF Unit board X48-1150-00, plug IF5. If you are asking if there are any gaps on IF Unit board plug IF5 then yes, there is a gap between IF5 pins 1 and 2 only.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Bill & Becky Marvin" <wmarvin@...> wrote:
>
> Hi Group I removed the wire harnesses from IFBrd (IF1 - IF5)
>
> IF1 14pin
> IF2 14 pin
> IF3 17 pin
> IF4 5 pin
> IF5 ???? (1) 3 wire/pin) (1) 2 wire/3 pin gnd-nc- r1f
>
> When I attach the harnesses I end up with a uncovered pin on the IF5 end pins on the Brd pins.. The schematic
> shows no gap pins unless clearly shown on the IF1-IF3.
>
> Any Help?
>
> Best 73
>
> Bill KB9IV
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

20363. Re: TS 820S IF Brd Harnesses

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-28 12:40:50 UTC
From: w5rkl
Topic: 20360 Message: 20363

Hi Bill,

There are no unused pins/wires on the IF board pins and plugs "except" for plug IF2. The number of pins for IF board's IF2 is "5" but the plug, IF2, only has "3". Details about plug IF2 and IF board pins IF2 are covered in the 820's operating manual on page 34. If you do not have the 820s operators manual, you can download it from the following Kenwood website (scroll down to manuals)

http://www.kenwoodusa.com/Support/AMA_Radios/#_

or the following website, again, scroll down and click on the 820's operating manual link

http://www.n6wk.com/kenwood/

Your explanation is a bit confusing about plug IF1. However, here's what I think you are trying to say. You have plugged all the plugs, IF1 thru IF5, back onto the IF board. However, you have a loose wire near plug IF1 that you do not know where it goes. Is that right? If so, what color is the loose wire?

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Bill & Becky Marvin" <wmarvin@...> wrote:
>
> Hi Mike I reversed IF1 which is IF5 thus the # order is changed. My point is IF1 has a unused pin besides the gap?? Which pin is not used?
>
> 73
>
> Bill KB9IV
>
>
> ----- Original Message -----
> From: w5rkl
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, February 27, 2009 4:57 PM
> Subject: [TS-520_820_530_830] Re: TS 820S IF Brd Harnesses
>
>
> I'm not sure what you are asking about IF Unit board X48-1150-00, plug
> IF5. If you are asking if there are any gaps on IF Unit board plug IF5
> then yes, there is a gap between IF5 pins 1 and 2 only.

>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com, "Bill & Becky Marvin"
> <wmarvin@> wrote:
> >
> > Hi Group I removed the wire harnesses from IFBrd (IF1 - IF5)
> >
> > IF1 14pin
> > IF2 14 pin
> > IF3 17 pin
> > IF4 5 pin
> > IF5 ???? (1) 3 wire/pin) (1) 2 wire/3 pin gnd-nc- r1f
> >
> > When I attach the harnesses I end up with a uncovered pin on the IF5
> end pins on the Brd pins.. The schematic
> > shows no gap pins unless clearly shown on the IF1-IF3.
> >
> > Any Help?
> >
> > Best 73
> >
> > Bill KB9IV
> >
> > [Non-text portions of this message have been removed]
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>
> [Non-text portions of this message have been removed]
>

20364. How can I tell if a mixer mosfet is bad?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-28 15:50:11 UTC
From: chris_yipyap_com
Topic: 20364 Message: 20364

I'm suspicious that one of the 3SK41 mosfets is bad in
the transmit mixer on the RF board of this TS-820.

The reason I say so is that I've got really funky waveforms on the
scope on the outbound side of the mixer. If it is supposed to be any
kind of a clear waveform then something is wrong.

So... is there some way to tell if one of the 3SK41 mosfets is bad and
I'm limping on one?

I could replace both, but that will cost about $20 bucks and I'd like
to know if I'm barking up the wrong tree.

Chris
w0ep

20365. PSK-31 frequency setting on TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-28 07:37:14 UTC
From: Art
Topic: 20365 Message: 20365

Am getting ready to use my TS520 for this mode. Have been able to receive transmissions quite well. However, tuning the rig for a frequency such as 14070.15 kHz is not something I can repeatedly do with any accuracy. Would be there a point in using crystals to control the rig to make tuning quicker?

20366. TS 530S final amplifier self oscillations

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-28 14:26:16 UTC
From: yellow_kite
Topic: 20366 Message: 20366

This is my third 6146 tube destroyed by self oscillations. I replaced the original 6146Bs with locally available 6146s on my 530S. Was working fine on 20 M, when I decide to check output on 18 MHz. Self oscillations and Ip shot up full scale, and I lost on of the 6146s. Now the output is about 30 watts. This happens when I have two tubes in final. With just one tube(the other now sits just as a dummy with heater on) there seems to be no problem.

I did the neutralization procedure on 28MHz as recommended, but to no avail. Any suggestions before I risk another set of these hard to find valves ??

Just a word that my rig is wired for 110 V and I am using an outboard step down transformer to reduce from 220V mains. It is quite possible that because of this arrangement the heater voltage maybe a trifle lower than 12.6V.

73

Rahul
VU2YK

20367. Re: How can I tell if a mixer mosfet is bad?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-28 17:19:26 UTC
From: w5rkl
Topic: 20364 Message: 20367

Measure the voltages on Q1 and Q8's Gate 1, Gate 2 and Drain pins

G1 - -4.8VDC Rcv / +2.5VDC Xmit
G2 - -4.8VDC Rcv / +2.5VDC Xmit

Drain - +13.5VDC Rcv / 12.8VDC Xmit

You might also check the PLL Unit's VCO signal level. It should be .9VDC. A missing or very low VCO signal applied to the RF Unit's "VCO" pin can affect the transmit mixer Q1 and Q8.

One question. What prompted you to check the signals at the transmit mixer output?

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "chris_yipyap_com" <chris@...> wrote:
>
>
> I'm suspicious that one of the 3SK41 mosfets is bad in
> the transmit mixer on the RF board of this TS-820.
>
> The reason I say so is that I've got really funky waveforms on the
> scope on the outbound side of the mixer. If it is supposed to be any
> kind of a clear waveform then something is wrong.
>
> So... is there some way to tell if one of the 3SK41 mosfets is bad and
> I'm limping on one?
>
> I could replace both, but that will cost about $20 bucks and I'd like
> to know if I'm barking up the wrong tree.
>
> Chris
> w0ep
>

20368. Re: [TS-520_820_530_830] PSK-31 frequency setting on TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-28 18:31:57 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20365 Message: 20368

On Sat, 2009-02-28 at 07:37 +0000, Art wrote:
> Am getting ready to use my TS520 for this mode. Have been able to
> receive transmissions quite well. However, tuning the rig for a
> frequency such as 14070.15 kHz is not something I can repeatedly do
> with any accuracy. Would be there a point in using crystals to
> control the rig to make tuning quicker?

You could do. I don't bother, because the PSK software generates audio frequencies appropriate for the signal you're receiving - that's the whole point of the waterfall display. If you're that bothered, check the output frequency with a dead carrier in "tune" mode using a frequency counter.

If you think carefully about the nature of SSB and PSK31, you'll see why the frequency is necessarily a bit vague...

Gordon

20369. Re: [TS-520_820_530_830] PSK-31 frequency setting on TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-28 19:32:29 UTC
From: Adam Wade
Topic: 20365 Message: 20369

From: Art <kd8cgf@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, February 27, 2009 11:37:14 PM
Subject: [TS-520_820_530_830] PSK-31 frequency setting on TS-520

> Am getting ready to use my TS520 for this mode. Have been able to
> receive transmissions quite well. However, tuning the rig for a
> frequency such as 14070.15 kHz is not something I can repeatedly do
> with any accuracy. Would be there a point in using crystals to
> control the rig to make tuning quicker?
No reason to. If you really want to keep close track, calibrate your sound card with something like DM780, get yourself one of the AADE digital displays for the 520 (I notice you didn't indicate a 520S, so I think you'd have to get the add-on kit to pull the signal source from the boards), and practice doing the addition of the number on the display and the offset indicated in the software. I usually do this is I use the 520S for PSK, but before I had the AADE display unit I did without and simply didn't have a precise frequency written down. From the QSL cards I've gotten, seems very few people recorded the specific frequency with their setups either, even if they had the capability.

! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
! "I write down everything I want to remember. That way, instead !
! of spending a lot of time trying to remember what it is I wrote !
! down, I spend z time looking for the paper I wrote it down on." !
! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !

20370. Re: How can I tell if a mixer mosfet is bad?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-28 19:34:55 UTC
From: chris_yipyap_com
Topic: 20364 Message: 20370

Well, I've had a long history with the transmit mixer in this thing.
Finally just a while ago I figured out it was a connector problem and
I was getting no C- voltage. So the mixer was always biased off. Now
I have signal, but the signal is small and ugly on my scope.

Since there is a balancing thing going on, I am suspicious that the
balancing isn't working.

I'll check the signal levels again.

--- In TS-520_820_530_830@...m, "w5rkl" <w5rkl@...> wrote:
>
> Measure the voltages on Q1 and Q8's Gate 1, Gate 2 and Drain pins
>
> G1 - -4.8VDC Rcv / +2.5VDC Xmit
> G2 - -4.8VDC Rcv / +2.5VDC Xmit
>
> Drain - +13.5VDC Rcv / 12.8VDC Xmit
>
> You might also check the PLL Unit's VCO signal level. It should be
> .9VDC. A missing or very low VCO signal applied to the RF Unit's "VCO"
> pin can affect the transmit mixer Q1 and Q8.
>
> One question. What prompted you to check the signals at the transmit
> mixer output?
>
> 73
> Mike
> W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "chris_yipyap_com"
> <chris@> wrote:
> >
> >
> > I'm suspicious that one of the 3SK41 mosfets is bad in
> > the transmit mixer on the RF board of this TS-820.
> >
> > The reason I say so is that I've got really funky waveforms on the
> > scope on the outbound side of the mixer. If it is supposed to be any
> > kind of a clear waveform then something is wrong.
> >
> > So... is there some way to tell if one of the 3SK41 mosfets is bad and
> > I'm limping on one?
> >
> > I could replace both, but that will cost about $20 bucks and I'd like

> > to know if I'm barking up the wrong tree.
> >
> > Chris
> > w0ep
> >
>

20371. Re: TS 530S final amplifier self oscillations

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-02-28 19:38:43 UTC
From: chris_yipyap_com
Topic: 20366 Message: 20371

--- In TS-520_820_530_830@yahoogroups.com, "yellow_kite"
> that because of this arrangement the heater voltage maybe a trifle
> lower than 12.6V.
>
> 73
>
> Rahul
> VU2YK

I think you want heater voltage more like 6v.
But if you haven't rerouted the heater circuit that should be ok.

Do they go wild even with the screen-grid switch off?

20372. FS: Complete TS-820S Station

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-01 03:02:45 UTC
From: al_kozakiewicz
Topic: 20372 Message: 20372

I recently bought a new rig and have decided to part with my Kenwood TS-820S station. The items are priced individually, but I'll sell the whole lot for $700, which is $120 off the ala carte price. Shipping is not included. Contact me via email (akozak@... <mailto:akozak@...>) if interested.

Al - AB2ZY

TS-820S - $475

* CW and SSB filters installed
* All switch couplers replaced (by someone else) with solid brass except bandswitch in RF cage
* Bandswitch coupler in RF cage replaced (by me) in 2009 with new OEM plastic
* Driver and final tubes replaced in late 2008. Final was neutralized and transmitter aligned at same time.
* OEM tubes included, plus a spare set of new matched 6146B finals and 12BY7A driver.
* Panel lamps replaced in 2009.
* Octal connector and cable for amp interface included
* Very clean - 9 out of 10 cosmetically
* Includes power cable, original box and manual

VFO-820 - $110

* Recently cleaned and aligned
* Includes cable

AT-200 tuner - $100

* 2 Coax antenna connections
* 1 Balanced line connection
* SWR & power meter
Handles up to 200W

SP-820 - $60

* 2 inputs
* 3 selectable filters
* Clean
* Switches could use a shot of De-oxit

MC-50 - $75

* Clean
* Sounds great!

[Non-text portions of this message have been removed]

20373. G5RV Or Windom with a TS830?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-01 14:31:29 UTC
From: waterfield55
Topic: 20373 Message: 20373

Being that I will soon be the proud owner of a TS830, I am wondering what everyone is using for a Dipole style antenna. Putting up a vertical will NOT happen at my QTH. I have plenty of room for a full size 80M dipole. The feed point may end up in the middle of the yard so some coax burying is in my future. I am torn between a G5RV style and a windom. I do not have a antenna tuner as of yet, but that is next on the list. I have heard mixed reviews of the ability of either one to tune some of the bands with out a tuner. But soon as you read the good you read the bad. I know that what works good at your location, may not work at all at mine.

Bob
KD8HZC

20374. Re: [TS-520_820_530_830] G5RV Or Windom with a TS830?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-01 16:42:13 UTC
From: ralph gee
Topic: 20373 Message: 20374

Hello and good luck with the new rig.
I use my TS-520SE for 40& 80 meters only. I use a G5RV (80 ~ 10). It works very well for me.
Good luck with your decision.
 Best 73,
Ralph
K3FXR

From: waterfield55 <waterfield55@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, March 1, 2009 9:31:29 AM
Subject: [TS-520_820_530_830] G5RV Or Windom with a TS830?

Being that I will soon be the proud owner of a TS830, I am wondering what everyone is using for a Dipole style antenna. Putting up a vertical will NOT happen at my QTH. I have plenty of room for a full size 80M dipole. The feed point may end up in the middle of the yard so some coax burying is in my future. I am torn between a G5RV style and a windom. I do not have a antenna tuner as of yet, but that is next on the list. I have heard mixed reviews of the ability of either one to tune some of the bands with out a tuner. But soon as you read the good you read the bad. I know that what works good at your location, may not work at all at mine.

Bob
KD8HZC

[Non-text portions of this message have been removed]

20375. Heil Microphones

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-01 18:48:06 UTC
From: Ralph
Topic: 20375 Message: 20375

Hello all,
I currently use the Heil Pr-20 mic and I like it alot. But for DX-ing, I would like to have the punch of the HC-4 element, like in the HM-10 Dual, or HM 10 c-4.
This brings me to my question... the base of the PR-20 mic has three pins (I believe it's called an XLR). Does the HM-10 or the Hm 10 C-4 also have a three pin plug at the base of the mic?

reason for my question is that the current cord runs through the boom I have. If the HM-10 mic also runs a cord with the three pin connector, all would be FB to just swap out mics on the boom for dx-ing.
I'd appreciate any info someone might offer.

Best 73,

Ralph
K3FXR

20376. Re: [TS-520_820_530_830] Heil Microphones

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-01 19:02:44 UTC
From: Dave Gmail
Topic: 20375 Message: 20376

check out there website for total info, but my hm-10 (2) have 4 pin xlr....

----- Original Message -----
From: "Ralph" <paharleyguy2001@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, March 01, 2009 1:48 PM
Subject: [TS-520_820_530_830] Heil Microphones

> Hello all,
> I currently use the Heil Pr-20 mic and I like it alot. But for DX-ing,
> I would like to have the punch of the HC-4 element, like in the HM-10
> Dual, or HM 10 c-4.
> This brings me to my question... the base of the PR-20 mic has three
> pins (I believe it's called an XLR). Does the HM-10 or the Hm 10 C-4
> also have a three pin plug at the base of the mic?
>
> reason for my question is that the current cord runs through the boom I
> have. If the HM-10 mic also runs a cord with the three pin connector,
> all would be FB to just swap out mics on the boom for dx-ing.
> I'd appreciate any info someone might offer.
>
> Best 73,
>
> Ralph
> K3FXR
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

20377. Re: G5RV Or Windom with a TS830?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-01 19:15:10 UTC
From: raydeeoh08
Topic: 20373 Message: 20377

Check out the collinear dipole designed/improved by W5GI. I don't have room for a full-size 80m dipole (unfortunately) but this antenna has performed very well for me. You will need a tuner to use it on 80m and 40m but it does work very well indeed. I feed it with about 30' of 300 ohm ribbon line to 50 ohm coax then to the tuner. I use a common-mode choke at the point where the ladder line ties to the coax.

I had also used a so-called "mini-G5RV" but with considerably poorer results. I left it up and did some A/B tests with it and typically, the (admittedly) larger W5GI was quieter and signals were a little over 1 s-unit stronger. How much of this was due to the size I can't say, but clearly some.

73 & Enjoy!
--- In TS-520_820_530_830@yahoogroups.com, "waterfield55" <waterfield55@...> wrote:
>
> Being that I will soon be the proud owner of a TS830, I am wondering
> what everyone is using for a Dipole style antenna. Putting up a
> vertical will NOT happen at my QTH. I have plenty of room for a full
> size 80M dipole. The feed point may end up in the middle of the yard
> so some coax burying is in my future. I am torn between a G5RV style
> and a windom. I do not have a antenna tuner as of yet, but that is
> next on the list. I have heard mixed reviews of the ability of either
> one to tune some of the bands with out a tuner. But soon as you read
> the good you read the bad. I know that what works good at your
> location, may not work at all at mine.
>
> Bob
> KD8HZC
>

20378. RE: [TS-520_820_530_830] Re: G5RV Or Windom with a TS830?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-01 19:53:59 UTC
From: brad
Topic: 20373 Message: 20378

Actually either of these are good antennas. What bI would do is place a Cobra Senior at your local. This is a all band antenna and works just unbelievably great!!. Think of a 3 lead rotor wire stretched out 80' or so. Take one of the outer leads and tie it to the center lead. You now have 160' of wire up. This is how the antenna is made. It is fed however with 450 ladder Line which is no issue, but is not something you want to bury. Google the Cobra senior. You will love it and the design. Brad KB2CHY

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of raydeeoh08
Sent: Sunday, March 01, 2009 14:15
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: G5RV Or Windom with a TS830?

Check out the collinear dipole designed/improved by W5GI. I don't have room for a full-size 80m dipole (unfortunately) but this antenna has performed very well for me. You will need a tuner to use it on 80m and 40m but it does work very well indeed. I feed it with about 30' of 300 ohm ribbon line to 50 ohm coax then to the tuner. I use a common-mode choke at the point where the ladder line ties to the coax.

I had also used a so-called "mini-G5RV" but with considerably poorer results. I left it up and did some A/B tests with it and typically, the (admittedly) larger W5GI was quieter and signals were a little over 1 s-unit stronger. How much of this was due to the size I can't say, but clearly some.

73 & Enjoy!
--- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com, "waterfield55"
<waterfield55@...> wrote:
>
> Being that I will soon be the proud owner of a TS830, I am wondering
> what everyone is using for a Dipole style antenna. Putting up a
> vertical will NOT happen at my QTH. I have plenty of room for a full
> size 80M dipole. The feed point may end up in the middle of the yard
> so some coax burying is in my future. I am torn between a G5RV style
> and a windom. I do not have a antenna tuner as of yet, but that is
> next on the list. I have heard mixed reviews of the ability of either
> one to tune some of the bands with out a tuner. But soon as you read
> the good you read the bad. I know that what works good at your
> location, may not work at all at mine.
>
> Bob

> KD8HZC
>

[Non-text portions of this message have been removed]

20379. Re: [TS-520_820_530_830] G5RV Or Windom with a TS830?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-01 19:18:33 UTC
From: Brent J Babcook
Topic: 20373 Message: 20379

Hi Bob,

I would go with the Carolina Windom, I have had on the air contacts with other hams using this antenna and they have a strong signal 599+10 with 100watts. (WA to Wyoming 599+20 w'100 watts) Check out Radioworks website for info.
I use a G5RV and have had good results with it, have had signal reports of 599 with 100 watts. Radioworks also sells this antenna.
www.radioworks.com

There is also the W5GI Mystery antenna that is suppost to be less noisy than other dipoles. www.w5gi.com/mysteryantenna.htm

(Then there is a fullwave loop antenna. I read that one ham put up a loop antenna and his tower and yagi are still in the garage.
With the square loop you need 4 poles or trees with a horizontal or two trees with a vertical delta loop.)

There is lots of information on the web for building all these antennas yourself and alot cheaper than buying one.
I hope this helps, thought i would put my two bits in.

Hope to talk on the air sometime,
73
Brent
KG7AS

_____
Click here to save cash and find low rates on auto loans.
http://thirdpartyoffers.juno.com/TGL2141/fc/BLSrjpTLaWzUQOVViNJFNZ2XuT4ZKSCwgz3aQ222kYHmARz1sd9RpfkyeII/

20380. Re: [TS-520_820_530_830] G5RV Or Windom with a TS830?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-01 20:50:31 UTC
From: Nu7z@aol.com
Topic: 20373 Message: 20380

Hi Bob,

This is always a good question and I think that are as many answers as there are type of antennas to use. So, here is another one.

-----Original Message-----
From: Brent J Babcook <bbabcook@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sun, 1 Mar 2009 11:18 am
Subject: Re: [TS-520_820_530_830] G5RV Or Windom with a TS830?

Hi Bob,

I would go with the Carolina Windom, I have had on the air contacts with

other hams using this antenna and they have a strong signal 599+10 with

100watts. (WA to Wyoming 599+20 w'100 watts) Check out Radioworks website

for info.

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of 599 with 100 watts. Radioworks also sells this antenna.

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(Then there is a fullwave loop antenna. I read that one ham put up a loop

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With the square loop you need 4 poles or trees with a horizontal or two

trees with a vertical delta loop.)

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Brent

KG7AS

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http://thirdpartyoffers.juno.com/TGL2141/fc/BLSrjpTLaWzUQOVViNJFNZ2XuT4ZKSCwgz3aQ222kYHmARz1sd9RpfkyeII/

[Non-text portions of this message have been removed]

20381. Re: [TS-520_820_530_830] G5RV Or Windom with a TS830?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-01 20:50:36 UTC
From: Nu7z@aol.com
Topic: 20373 Message: 20381

Hi Bob,

This is always a good question and I think that are as many answers as there are type of antennas to use. So, here is another one.

-----Original Message-----
From: Brent J Babcook <bbabcook@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sun, 1 Mar 2009 11:18 am
Subject: Re: [TS-520_820_530_830] G5RV Or Windom with a TS830?

Hi Bob,

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other hams using this antenna and they have a strong signal 599+10 with

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Click here to save cash and find low rates on auto loans.

http://thirdpartyoffers.juno.com/TGL2141/fc/BLSrjpTLaWzUQOVViNJFNZ2XuT4ZKSCwgz3aQ222kYHmARz1sd9RpfkyeII/

[Non-text portions of this message have been removed]

20382. Re: [TS-520_820_530_830] G5RV Or Windom with a TS830?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-01 20:55:47 UTC
From: Nu7z@aol.com
Topic: 20373 Message: 20382

bob, -- continuing on -- This is what happens when you hit the send button.

Look into the old design dipole, all band antennas, of the past -- you will find that there is an all band dipole, 160 thru 10 meters that will work very well for your needs.
The antenna likes to be up high but that is not the worst thing if you can't make it higher than 50 feet. It will still perform well.

65 fee per leg, at a minimum height of 50 feet in the middle, fed with 85 to 100 feet of open wire feeder, to a 300 ohm tuner. My antenna is at 90 feet at the center and it works quite well. DX is fun and locals can hear me too. If you have the space why not use it?

Good luck on the project -

Rick NU7Z

-----Original Message-----
From: Brent J Babcook <bbabcook@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sun, 1 Mar 2009 11:18 am
Subject: Re: [TS-520_820_530_830] G5RV Or Windom with a TS830?

Hi Bob,

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other hams using this antenna and they have a strong signal 599+10 with

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There is also the W5GI Mystery antenna that is suppost to be less noisy

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http://thirdpartyoffers.juno.com/TGL2141/fc/BLSrjpTLaWzUQOVViNJFNZ2XuT4ZKSCwgz3aQ222kYHmARz1sd9RpfkyeII/

[Non-text portions of this message have been removed]

20383. Re: [TS-520_820_530_830] Heil Microphones

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-01 22:46:27 UTC
From: Adam Wade
Topic: 20375 Message: 20383

From: Ralph <paharleyguy2001@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, March 1, 2009 10:48:06 AM
Subject: [TS-520_820_530_830] Heil Microphones

> I currently use the Heil Pr-20 mic and I like it alot. But for DX-ing,
> I would like to have the punch of the HC-4 element, like in the HM-10
> Dual, or HM 10 c-4.

> This brings me to my question... the base of the PR-20 mic has three
> pins (I believe it's called an XLR). Does the HM-10 or the Hm 10 C-4
> also have a three pin plug at the base of the mic?

> reason for my question is that the current cord runs through the boom I
> have. If the HM-10 mic also runs a cord with the three pin connector,
> all would be FB to just swap out mics on the boom for dx-ing.
> I'd appreciate any info someone might offer.

Almost all low-impedance microphones use an XLR connector (designed so that the mic cable can be very long without losing signal level or adding interference to the signal inside the cable, for audio engineering use).

A quick check on Universal Radio's website shows that both the HM-10 and the PR-20 require a CC-1 adapter (which I presume is an impedance-matching xfmr set up as a balun to connect to a mic plug). This means they have to have the same connector at the mic and same impedance range, so they must both have an XLR connector (the photos lead me to believe this as well; I am a former professional audio engineer, for reference).

Incidentally, Heil's products, while very good, are also quite overpriced for what they are. You are paying for ready plug-and-play capability, since Heil has done the homework for you. Same goes for the W2IHY gear. If you'd like to set up a sked with me at some point, I can give you a taste of my audio front end, which uses an Audio Technica studio condenser mic (very similar in audio response to a Heil PR-40), which was $80 new, and my Behringer compressor and parametric equalizer boxes, which were $150 each. Along with a R0de boom ($70), XLR cables (various), a phantom power box for the condenser ($80, but usually built into a mic pre-amp, which most would choose to use instead; there was enough gain in the Behringer boxes to skip a pre-amp box, but you can get a nice Behringer one that can accomodate a variety of mics and mic types for $150), and a box called a re-amper that turns the line level output from the Behringers into ISOLATED high-impedance mic level signal to feed directly into any of my rigs, including my TS-520S ($90). Total outlay for the system, which is far more flexible that anything Heil or W2IHY makes and requires no special cables to interface with rigs (just get a mic connector and solder it up to a cable with a standard 1/4" mono plug to go into the re-amper) was about $650 complete with all cables and connectors, and everything was plug-and-play except having to make the 2-conductor cable for connecting to each rig (I bought shielded guitar

cables for cheap and just attached a mic connector wired correctly on one end for each rig); compare that to the price of a Heil PR-40 with boom and the W2IHY EQPlus + 8-band EQ + iBox + cables for 2 rigs of around $1200!

! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
! "I write down everything I want to remember. That way, instead !
! of spending a lot of time trying to remember what it is I wrote !
! down, I spend z time looking for the paper I wrote it down on." !
! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !

20384. Re: [TS-520_820_530_830] G5RV Or Windom with a TS830?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-01 23:22:09 UTC
From: Phil Barnett
Topic: 20373 Message: 20384

Nu7z@... wrote:
> bob, -- continuing on -- This is what happens when you hit the send button.
>
> Look into the old design dipole, all band antennas, of the past -- you will find that there is an all band dipole, 160 thru 10 meters that will work very well for your needs.
> The antenna likes to be up high but that is not the worst thing if you can't make it higher than 50 feet. It will still perform well.
>
> 65 fee per leg, at a minimum height of 50 feet in the middle, fed with 85 to 100 feet of open wire feeder, to a 300 ohm tuner. My antenna is at 90 feet at the center and it works quite well. DX is fun and locals can hear me too. If you have the space why not use it?
>
> Good luck on the project -
>
> Rick NU7Z
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> -----Original Message-----
> From: Brent J Babcook <bbabcook@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sun, 1 Mar 2009 11:18 am
> Subject: Re: [TS-520_820_530_830] G5RV Or Windom with a TS830?
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> Hi Bob,
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> I would go with the Carolina Windom, I have had on the air contacts with
>
> other hams using this antenna and they have a strong signal 599+10 with
>
> 100watts. (WA to Wyoming 599+20 w'100 watts) Check out Radioworks website
>
> for info.
>
> I use a G5RV and have had good results with it, have had signal reports
>
> of 599 with 100 watts. Radioworks also sells this antenna.
>
> www.radioworks.com
>
>
>
> There is also the W5GI Mystery antenna that is suppost to be less noisy
>
> than other dipoles. www.w5gi.com/mysteryantenna.htm
>
>
>
> (Then there is a fullwave loop antenna. I read that one ham put up a loop
>
> antenna and his tower and yagi are still in the garage.
>
> With the square loop you need 4 poles or trees with a horizontal or two
>
> trees with a vertical delta loop.)
>
>
>
> There is lots of information on the web for building all these antennas
>
> yourself and alot cheaper than buying one.
>
> I hope this helps, thought i would put my two bits in.
>

This antenna is called a doublet and I would also suggest that if you have room for a doublet that it's the first antenna to try.

I recall the late L. B. Cebik stating that the doublet should be every ham's first antenna. Then you have something to compare the ones that don't work so great to.

20385. Re: [TS-520_820_530_830] Heil Microphones

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-01 23:49:39 UTC
From: Dave Gmail
Topic: 20375 Message: 20385

wow and my heil only cost 100 bucks....

> Incidentally, Heil's products, while very good, are also quite overpriced
> for what they are. You are paying for ready plug-and-play capability,
> since Heil has done the homework for you. Same goes for the W2IHY gear.
> If you'd like to set up a sked with me at some point, I can give you a
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> box called a re-amper that turns the line level output from the Behringers
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> including my TS-520S ($90). Total outlay for the system, which is far
> more flexible that anything Heil or W2IHY makes and requires no special
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> mic connector wired correctly on one end for each rig); compare that to
> the price of a Heil PR-40 with boom and the W2IHY EQPlus + 8-band EQ +
> iBox + cables for 2 rigs of around $1200!

20386. Re: [TS-520_820_530_830] G5RV Or Windom with a TS830?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-01 23:48:26 UTC
From: Lou Blasco
Topic: 20373 Message: 20386

I agree. After messing around with verticals and various dipoles, off center fed dipole(windom) and G5RV I can vouch for the simple doublet. A number of operators in my local area feel that it's a great performer even if you can't get it too high off the ground. My doublet is a 24 feet and fed with about 30 feet of wide spaced (6 inches) home brew ladder line. Works well for me, I only run 100W and when I hear them I can work them.

HOWEVER, if you are set on using either the G5RV or windom I would suggest the G5RV. I've read the stuff about difficult tuning etc but can't say I've ever had that problem. I have however had problems with RF in the shack with the windom or OCF dipole. Additionally, at 24 feet I don't think the windom worked as well as the G5RV.

Regards

Lou
VK3ALB

At 10:22 02/03/2009, you wrote:

<snip>

> Look into the old design dipole, all band antennas, of the past -- you will find that there is an all band dipole, 160 thru 10 meters that will work very well for your needs.
> The antenna likes to be up high but that is not the worst thing if you can't make it higher than 50 feet. It will still perform well.
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>
> Good luck on the project -
>

<snip>

>This antenna is called a doublet and I would also suggest that if you >have room for a doublet that it's the first antenna to try.
>
>I recall the late L. B. Cebik stating that the doublet should be every >ham's first antenna. Then you have something to compare the ones that >don't work so great to.

<snip>

20387. Re: [TS-520_820_530_830] G5RV Or Windom with a TS830?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-01 23:58:08 UTC
From: Lou Blasco
Topic: 20373 Message: 20387

Bob I forgot to add that the windom was quite touchy to operate on
10m unlike the G5RV. The doublet is also a bit tricky on 10m but is
fantastic on 20m and 15m.

Lou
VK3ALB

At 10:48 02/03/2009, you wrote:
>I agree. After messing around with verticals and various dipoles, off
>center fed dipole(windom) and G5RV I can vouch for the simple
>doublet. A number of operators in my local area feel that it's a
>great performer even if you can't get it too high off the ground. My
>doublet is a 24 feet and fed with about 30 feet of wide spaced (6
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>and when I hear them I can work them.
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>suggest the G5RV. I've read the stuff about difficult tuning etc but
>can't say I've ever had that problem. I have however had problems
>with RF in the shack with the windom or OCF dipole. Additionally, at
>24 feet I don't think the windom worked as well as the G5RV.
>
>Regards
>
>Lou
>VK3ALB
>
>
>At 10:22 02/03/2009, you wrote:
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><snip>
>
> > Look into the old design dipole, all band antennas, of the past --
>you will find that there is an all band dipole, 160 thru 10 meters
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> >

>
><snip>
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>Yahoo! Groups Links
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20388. Re: [TS-520_820_530_830] G5RV Or Windom with a TS830?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 00:06:55 UTC
From: Nu7z@aol.com
Topic: 20373 Message: 20388

Hey, Lou -- The tuning on 10 and 15M may be due to the length of feeder your using. Due the math -- you may find that is a
couple of feet short for those two bands and that you are trying to make to much length to get there --

Just a thought -- rick NU7Z

-----Original Message-----
From: Lou Blasco <radio@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sun, 1 Mar 2009 3:58 pm
Subject: Re: [TS-520_820_530_830] G5RV Or Windom with a TS830?

Bob I forgot to add that the windom was quite touchy to operate on

10m unlike the G5RV. The doublet is also a bit tricky on 10m but is

fantastic on 20m and 15m.

Lou

VK3ALB

At 10:48 02/03/2009, you wrote:

>I agree. After messing around with verticals and various dipoles, off

>center fed dipole(windom) and G5RV I can vouch for the simple

>doublet. A number of operators in my local area feel that it's a

>great performer even if you can't get it too high off the ground. My

>doublet is a 24 feet and fed with about 30 feet of wide spaced (6

>inches) home brew ladder line. Works well for me, I only run 100W

>and when I hear them I can work them.

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>can't say I've ever had that problem. I have however had problems

>with RF in the shack with the windom or OCF dipole. Additionally, at

>24 feet I don't think the windom worked as well as the G5RV.

>

>Regards

>

>Lou

>VK3ALB

>

>

>At 10:22 02/03/2009, you wrote:

>

><snip>

>

> > Look into the old design dipole, all band antennas, of the past --

>you will find that there is an all band dipole, 160 thru 10 meters

>that will work very well for your needs.

> > The antenna likes to be up high but that is not the worst thing if

>you can't make it higher than 50 feet. It will still perform well.

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> > 65 fee per leg, at a minimum height of 50 feet in the middle, fed

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>antenna is at 90 feet at the center and it works quite well. DX is

>fun and locals can hear me too. If you have the space why not use it?

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> > Good luck on the project -

> >

>

><snip>

>

> >This antenna is called a doublet and I would also suggest that if you

> >have room for a doublet that it's the first antenna to try.

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> >don't work so great to.

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><snip>

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>Yahoo! Groups Links

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[Non-text portions of this message have been removed]

20389. Re: [TS-520_820_530_830] Heil Microphones

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 00:32:30 UTC
From: Adam Wade
Topic: 20375 Message: 20389

From: Dave Gmail <ve3wej@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, March 1, 2009 3:49:39 PM
Subject: Re: [TS-520_820_530_830] Heil Microphones

> wow and my heil only cost 100 bucks....

The PR-40, which is a dynamic mic with some of the benefits of a condenser mic (it's also rather similar to the well-known Electro-Voice RE-20), has a retail price of $380. Add in Heil's $110 boom arm, all the cables, and the W2IHY boxes (the three together are over $700)... By comparison, I got the same end result as with that $380 Heil by spending $80 (not counting a preamp, which both mics need -- I alleviated part of the need by taking advantage of other gear in the chain).

You can get a microphone pretty comparable to the Heils you mentioned for as little as $50 or 60 new if you know what to look for. Of course, most hams don't know a whole lot about commercial audio for studio or live sound reinforcement use, so they can't pick ten mics out of a catalog with 200 mics in them that they know would work for what they want to do, which is why Heil has so much of the ham market -- they present their gear directly to hams already "filtered" so the consumers don't have to learn and sort prior to choosing, and for that Heil charges a premium. W2IHY even moreso! But you can increase your AVERAGE signal level on SSB from about 5 watts with a 100W PEP rig to over *20* watts average, which is 6 db of gain without adding an amp or antenna; and that's not to mention what shaping the audio response can do to make your voice stand out above others in a pile-up or for working weak signal DX on SSB. By comparison, this would be the
same as leaving the audio alone and adding at least 400W PEP of amplifier, and won't cost you nearly as much in electricity to run the assemblage, nor will you have to increase the current-carrying capacity of your feed lines, tuner, antenna, ground system (if you run a vertical), etc. So despite the costs, it can make all the difference at a far lower cost in terms of purchase and operation vs. adding amplifier power or a higher-gain antenna. I've turned off all the audio processing in a pile-up, spent half an hour calling without being heard, turned the audio processing back on and busting the pile-up in one or two calls -- on more than one occasion, no other changes. I run a 600W PEP amp that has low buy-in and operating costs and a multi-band trapped vertical because of the physical limitations of my rental property, and with my audio processing I put out as much signal as if I had a two-element beam and a legal limit amplifier. So I consider my
money very well-spent on the audio front end gear, especially considering what it would cost to get the same results with the "industry standard" stuff for Amateur use.

YM, of course, MV. :D

! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
! "I write down everything I want to remember. That way, instead !
! of spending a lot of time trying to remember what it is I wrote !
! down, I spend z time looking for the paper I wrote it down on." !

! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !

20390. Re: G5RV Or Windom with a TS830?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 00:52:55 UTC
From: waterfield55
Topic: 20373 Message: 20390

I had thought about the doublet, but lacking a tuner for now I may
just home brew an 80 M no frills dipole. At least I can listen until
I have a tuner.

Bob
KD8HZC

--- In TS-520_820_530_830@yahoogroups.com, Nu7z@... wrote:
>
>
> Hey, Lou -- The tuning on 10 and 15M may be due to the length of
feeder your using. Due the math -- you may find that is a
> couple of feet short for those two bands and that you are trying to
make to much length to get there --
>
> Just a thought -- rick NU7Z
>
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> -----Original Message-----
> From: Lou Blasco <radio@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sun, 1 Mar 2009 3:58 pm
> Subject: Re: [TS-520_820_530_830] G5RV Or Windom with a TS830?
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> Bob I forgot to add that the windom was quite touchy to operate on
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> Lou
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> VK3ALB
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> At 10:48 02/03/2009, you wrote:
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> >Lou
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> [Non-text portions of this message have been removed]
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20391. Re: [TS-520_820_530_830] G5RV Or Windom with a TS830?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 01:39:27 UTC
From: Adam Wade
Topic: 20373 Message: 20391

From: "Nu7z@..." <Nu7z@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, March 1, 2009 12:55:47 PM
Subject: Re: [TS-520_820_530_830] G5RV Or Windom with a TS830?

> 65 fee per leg, at a minimum height of 50 feet in the middle, fed with
> 85 to 100 feet of open wire feeder, to a 300 ohm tuner.

One note. In modeling dpiloe antennas, I found that you can get the same take-off angle and gain pattern and RF gain as a dpiloe at 1/2 wavelength above ground by instead running the dipole at 1/4 wavelength plus one foot above ground, and running an identical dipole (except with the ends joined at the normal feed point location, and no connection to a feed line -- essentially, a reflector element) at 1 foot off the ground directly underneath it. This may work with other antenna designs that are based on the dipole principal, like the doublet or OCF dipole, I have not modeled them to be certain. Might be worth looking into if you can't get your dipole-based antenna or long wire up high enough off the ground to be effective on the lowest bands you want to work...

Those who have mentioned problems with RF in the shack with various sorts of antennas (OCF dipoles and verticals often being potential offenders) should look seriously into adding a common mode choke at the feed point, if using a coax feeder, or at using a balun at the wall of the shack and feeding coax with a common mode choke into the shack rather than running the balun at the back of the rig and running twin lead from there out of the shack to the antenna.

! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
! "I write down everything I want to remember. That way, instead !
! of spending a lot of time trying to remember what it is I wrote !
! down, I spend z time looking for the paper I wrote it down on." !
! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !

20392. RE: [TS-520_820_530_830] G5RV Or Windom with a TS830?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 01:57:09 UTC
From: Kevin King
Topic: 20373 Message: 20392

I use a 180' folded dipole in an inverted "V" configuration.

I do not need a tuner and it works all bands with less than 2 swr.

(==========^==========) each leg is 90ft long that is 180 ft of wire folded back. So total length of antenna is 180 ft with it in inverted v I pull it up to 65ft and it does not take much room.

-Kevin

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of waterfield55
Sent: Sunday, March 01, 2009 9:31 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] G5RV Or Windom with a TS830?

Being that I will soon be the proud owner of a TS830, I am wondering what everyone is using for a Dipole style antenna. Putting up a vertical will NOT happen at my QTH. I have plenty of room for a full size 80M dipole. The feed point may end up in the middle of the yard so some coax burying is in my future. I am torn between a G5RV style and a windom. I do not have a antenna tuner as of yet, but that is next on the list. I have heard mixed reviews of the ability of either one to tune some of the bands with out a tuner. But soon as you read the good you read the bad. I know that what works good at your location, may not work at all at mine.

Bob
KD8HZC

Yahoo! Groups Links

20393. Re: [TS-520_820_530_830] G5RV Or Windom with a TS830?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 02:38:29 UTC
From: Adam Wade
Topic: 20373 Message: 20393

From: Adam Wade <espresso_doppio@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, March 1, 2009 5:39:27 PM
Subject: Re: [TS-520_820_530_830] G5RV Or Windom with a TS830?

> One note. In modeling dpiloe antennas, I found that you can get
> the same take-off angle and gain pattern and RF gain as a dpiloe
> at 1/2 wavelength above ground...

Ah, the joys of my illness, combined with a broken spell-cheker in my mail program.

Obviously, I'm talking about dipole antennas. ;)

! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
! "I write down everything I want to remember. That way, instead !
! of spending a lot of time trying to remember what it is I wrote !
! down, I spend z time looking for the paper I wrote it down on." !
! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !

20394. Re: G5RV Or Windom with a TS830?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 03:07:24 UTC
From: Michael
Topic: 20373 Message: 20394

If you live in or near a town, you will most likely have receiver noise level problems. This is a problem the plagues most hams. After years of using a dipole, I bit the bullet and strung a 75 meter loop around my city lot.

It was the best decision I ever made about an antenna. My noise level dropped from a normal of S6-7 to an S1-2. That makes a huge difference between barely hearing someone and armchair copy. I can also tune this to any band from 75 meters on up. The one exception is 15 meters. I suspect my tuner is not up to it.

A friend I talk to all the time put up a folded dipole for 75 meters and got a lot of noise reduction. I have not personally tried this, but he loves the reduced noise.

--- In TS-520_820_530_830@yahoogroups.com, "waterfield55" <waterfield55@...> wrote:
>
> I had thought about the doublet, but lacking a tuner for now I may
> just home brew an 80 M no frills dipole. At least I can listen until
> I have a tuner.
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> Bob
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> > Hey, Lou -- The tuning on 10 and 15M may be due to the length of
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> make to much length to get there --
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> > Just a thought -- rick NU7Z
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> > -----Original Message-----
> > From: Lou Blasco <radio@>
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Sun, 1 Mar 2009 3:58 pm
> > Subject: Re: [TS-520_820_530_830] G5RV Or Windom with a TS830?

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20395. Loop antenna

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 03:11:26 UTC
From: Alan
Topic: 20395 Message: 20395

Hi,

I have been following this thread with interest.

Can you please supply specs for your Loop Antenna?

I have a huge QRM problem on 80M and this may just be the answer I am looking for.

Thanks and 73

Alan
ZL4FM

----- Original Message -----
From: "Michael" <micoder@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, March 02, 2009 4:07 PM
Subject: [TS-520_820_530_830] Re: G5RV Or Windom with a TS830?

> If you live in or near a town, you will most likely have receiver
> noise level problems. This is a problem the plagues most hams. After
> years of using a dipole, I bit the bullet and strung a 75 meter loop
> around my city lot.
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> dropped from a normal of S6-7 to an S1-2. That makes a huge difference
> between barely hearing someone and armchair copy. I can also tune this
> to any band from 75 meters on up. The one exception is 15 meters. I
> suspect my tuner is not up to it.
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> A friend I talk to all the time put up a folded dipole for 75 meters
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.237 / Virus Database: 270.11.5/1979 - Release Date: 03/01/09
17:46:00

20396. Re: [TS-520_820_530_830] Loop antenna

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 03:57:26 UTC
From: Don Thomas
Topic: 20395 Message: 20396

Here is some info on a loop antenna. Look towards the bottom of the page.
http://www.dxzone.com/cgi-bin/dir/jump2.cgi?ID=7489

You can also Google "skywire loop" and find lots of info on them. I have a 80 meter loop and use coax to feed it from a tuner to cover 10 thru 80 meters. Works for me.

Don T. // K5ZRQ

--- On Sun, 3/1/09, Alan <alan@navcom.co.nz> wrote:

From: Alan <alan@...>
Subject: [TS-520_820_530_830] Loop antenna
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, March 1, 2009, 9:11 PM

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To: <TS-520_820_530_ 830@yahoogroups. com>
Sent: Monday, March 02, 2009 4:07 PM
Subject: [TS-520_820_ 530_830] Re: G5RV Or Windom with a TS830?

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20397. Re: [TS-520_820_530_830] Loop antenna

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 03:59:12 UTC
From: Alan
Topic: 20395 Message: 20397

thanks heaps

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From: "Don Thomas" <satranger1@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, March 02, 2009 4:57 PM
Subject: Re: [TS-520_820_530_830] Loop antenna

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>> > >Regards
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>> > >Lou
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.237 / Virus Database: 270.11.5/1979 - Release Date: 03/01/09
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Yahoo! Groups Links

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17:46:00

20398. Fwd: [TS-520_820_530_830] Loop antenna

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 04:25:47 UTC
From: kc2aup@arrl.net
Topic: 20398 Message: 20398

Alan,

I also use a loop antenna here at my QTH. I live in a condo, so there are restrictions here. However, my unit is just about up against the woods here. The woods are not owned by the complex, so I went to the town hall and asked them if I could put up a loop antenna in the tree tops.
I explained what it was and was for, and how simple it was to do. They had no problems helping out a Ham operator. I also checked with my association and all they said was that as long as the coax was not touching the ground, there was no problem.
So, I went out to Home Depot and purchased a 500 foot roll of 12 gauge stranded wire. I ran 100 feet of 8X coax out the window, hooked it to a connector then to 35 feet of ladder line. Split the 500 feet of wire in half and started to go around the tree tops. We used a sling shot with fishing line and shot it over branches, pulled the wire after each shot and just went in a loop. When the ends meet up, I spliced them together, heat shrink wrapped them and pulled them up with 3/8 antenna rope. I also pulled up the connector so it was not hanging too low and the kids could not pull on it.
I know 500 feet is way overkill, but if I ever have to cut a piece out because of the wind blowing the trees around, there will still be enough to play with.
Not only can I tune out anything I want, and go without a problem, but at any point on the bands, no matter where I go, the SWR is not any higher than a 2.0, and that is at the extreme. I really do not need as tuner, but sometimes I will tune it out anyway.

I think the loop antenna is a very good way to go. I have never had any problems with it. If I can hear them, they can hear me....

Frank
KC2AUP....

From: alan@...
Reply-to: TS-520_820_530_830@yahoogroups.com
To: TS-520_820_530_830@yahoogroups.com
Sent: 3/1/2009 10:12:28 P.M. Eastern Standard Time
Subj: [TS-520_820_530_830] Loop antenna

Hi,

I have been following this thread with interest.

Can you please supply specs for your Loop Antenna?

I have a huge QRM problem on 80M and this may just be the answer I am looking for.

Thanks and 73

Alan
ZL4FM

----- Original Message -----
From: "Michael" <micoder@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, March 02, 2009 4:07 PM
Subject: [TS-520_820_530_830] Re: G5RV Or Windom with a TS830?

> If you live in or near a town, you will most likely have receiver
> noise level problems. This is a problem the plagues most hams. After
> years of using a dipole, I bit the bullet and strung a 75 meter loop
> around my city lot.
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> It was the best decision I ever made about an antenna. My noise level
> dropped from a normal of S6-7 to an S1-2. That makes a huge difference
> between barely hearing someone and armchair copy. I can also tune this
> to any band from 75 meters on up. The one exception is 15 meters. I
> suspect my tuner is not up to it.
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> A friend I talk to all the time put up a folded dipole for 75 meters
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> but he loves the reduced noise.
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> --- In TS-520_820_530_830@yahoogroups.com, "waterfield55"
> <waterfield55@...> wrote:
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>> I had thought about the doublet, but lacking a tuner for now I may
>> just home brew an 80 M no frills dipole. At least I can listen until
>> I have a tuner.
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>> Bob
>> KD8HZC
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>> --- In TS-520_820_530_830@yahoogroups.com, Nu7z@ wrote:
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>> > Hey, Lou -- The tuning on 10 and 15M may be due to the length of
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>> make to much length to get there --
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>> > Just a thought -- rick NU7Z
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>> > -----Original Message-----
>> > From: Lou Blasco <radio@>
>> > To: TS-520_820_530_830@yahoogroups.com
>> > Sent: Sun, 1 Mar 2009 3:58 pm
>> > Subject: Re: [TS-520_820_530_830] G5RV Or Windom with a TS830?
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17:46:00

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[Non-text portions of this message have been removed]

20399. Re: [TS-520_820_530_830] Loop antenna

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 04:37:57 UTC
From: kc2aup@arrl.net
Topic: 20395 Message: 20399

In a message dated 3/1/2009 11:26:12 P.M. Eastern Standard Time,
kc2aup@... writes:

Alan,

I also use a loop antenna here at my QTH. I live in a condo, so there are
restrictions here. However, my unit is just about up against the woods
here.
The woods are not owned by the complex, so I went to the town hall and
asked
them if I could put up a loop antenna in the tree tops.
I explained what it was and was for, and how simple it was to do. They had
no problems helping out a Ham operator. I also checked with my association

and all they said was that as long as the coax was not touching the ground,
there was no problem.
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I know 500 feet is way overkill, but if I ever have to cut a piece out
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Not only can I tune out anything I want, and go without a problem, but at
any point on the bands, no matter where I go, the SWR is not any higher than
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2.0, and that is at the extreme. I really do not need as tuner, but
sometimes I will tune it out anyway.

I think the loop antenna is a very good way to go. I have never had any
problems with it. If I can hear them, they can hear me....

Frank
KC2AUP....

_____
From: alan@...

Reply-to: TS-520_820_530_830@yahoogroups.com
To: TS-520_820_530_830@yahoogroups.com
Sent: 3/1/2009 10:12:28 P.M. Eastern Standard Time
Subj: [TS-520_820_530_830] Loop antenna

Hi,

I have been following this thread with interest.

Can you please supply specs for your Loop Antenna?

I have a huge QRM problem on 80M and this may just be the answer I am
looking for.

Thanks and 73

Alan
ZL4FM

----- Original Message -----
From: "Michael" <micoder@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, March 02, 2009 4:07 PM
Subject: [TS-520_820_530_830] Re: G5RV Or Windom with a TS830?

> If you live in or near a town, you will most likely have receiver
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> <waterfield55@...> wrote:
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>> > From: Lou Blasco <radio@>
>> > To: TS-520_820_530_830@yahoogroups.com
>> > Sent: Sun, 1 Mar 2009 3:58 pm
>> > Subject: Re: [TS-520_820_530_830] G5RV Or Windom with a TS830?
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[Non-text portions of this message have been removed]

20400. Re: G5RV Or Windom with a TS830?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 01:48:35 UTC
From: waterfield55
Topic: 20373 Message: 20400

Since I am just starting out and on a very limited budget. I figure to make an 80M straight dipole, probably either slightly sloped due to the way the trees go or an inverted V. Will be using coax for now. I figured I would have to put a 1-1 4-6 turn near the antenna feed point and another just before the shack. Just when you think you have VHF/UHF antennas figured out. They are kids play compared to HF. I have built all of my VHF/UHF antennas. All of a sudden for HF you get into chokes, balums, coils, and tuners. Gotta love this hobby!!

Bob
KD8HZC

--- In TS-520_820_530_830@yahoogroups.com, Adam Wade <espresso_doppio@...> wrote:
>
>
> From: "Nu7z@..." <Nu7z@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, March 1, 2009 12:55:47 PM
> Subject: Re: [TS-520_820_530_830] G5RV Or Windom with a TS830?
> > 65 fee per leg, at a minimum height of 50 feet in the middle, fed with
> > 85 to 100 feet of open wire feeder, to a 300 ohm tuner.
> One note. In modeling dpiloe antennas, I found that you can get the same take-off angle and gain pattern and RF gain as a dpiloe at 1/2 wavelength above ground by instead running the dipole at 1/4 wavelength plus one foot above ground, and running an identical dipole (except with the ends joined at the normal feed point location, and no connection to a feed line -- essentially, a reflector element) at 1 foot off the ground directly underneath it. This may work with other antenna designs that are based on the dipole principal, like the doublet or OCF dipole, I have not modeled them to be certain. Might be worth looking into if you can't get your dipole-based antenna or long wire up high enough off the ground to be effective on the lowest bands you want to work...
> Those who have mentioned problems with RF in the shack with various sorts of antennas (OCF dipoles and verticals often being potential offenders) should look seriously into adding a common mode choke at the feed point, if using a coax feeder, or at using a balun at the wall of the shack and feeding coax with a common mode choke into the shack rather than running the balun at the back of the rig and running twin lead from there out of the shack to the antenna.
> ! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
> ! "I write down everything I want to remember. That way, instead !
> ! of spending a lot of time trying to remember what it is I wrote !
> ! down, I spend z time looking for the paper I wrote it down on." !

> ! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !
>

20401. Re: G5RV Or Windom with a TS830?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 14:55:25 UTC
From: w5rkl
Topic: 20373 Message: 20401

A G5RV is a good antenna and will work fine but it does require a tuner when used as a multi band antenna.

The "choke" that is usually mentioned with G5RV's is 10 turns of coax 5 to 7 inches in diameter. The turns should not overlap and is mounted at the antenna feed point only. A large plastic soda bottle is a good form to use. Whether you leave the bottle inside the coax coil or not is up to you.

Raise the dipole or G5RV antenna as high as possible. For best performance and radiation pattern, the antenna should be at least 1/2 wave length above ground. To find out what the half wave height is for an 80 meter dipole, use the simple formula, 468/3.8 which is about 133 feet. The antenna will work at heights less than 1/2 wave above ground but the radiation pattern will be affected.

Ground mounted vertical require radials for best performance. A ground mounted vertical will work without radials but it's performance will be greatly reduced without radials. The length of the radials on ground mounted verticals is not that important but the quantity of radials is. Put down as many radials as possible and it doesn't matter if they all are not straight, just put down as many as you can.

Verticals mounted on roof tops do require radials and the radial length must be cut to the frequencies the vertical will be operated on. If the vertical is a 5BTV, the radial must be cut to resonate on each band being used.

Verticals should be mounted as far away from surround objects as possible since the surrounding objects, metal fences, out buildings, etc, will affect the verticals radiation pattern even with a lot of radials.

Inverted Vee, or sloper antennas, radiate the majority of the signal in the direction of the "sloop". Therefore, both inverted v and slooper antennas are "directional". This should be taken into consideration when erecting either of these antennas. The angle between each leg at the center of an inverted vee should be kept as close to 45 degrees as possible. The ends should be kept 6 feet above ground. This can be done by securing the end insulator to a tree limb or body of the tree. Do not use wire from the insulator to the tree as this will upset the resonance of the antenna.

When making a simple dipole, use the formula "468/Freq in Mhz" to determine the "ball park" length, end to end. Each leg will most likely have to be "trimmed" to resonant the dipole on the band it's going to be used on. Apply RF power at the center of the band the

antenna's cut for and note the SWR. Move the RF signal up or down in frequency. If the SWR increases as the frequency decreases, the antenna's too short. Trimming the dipole, simply fold the wire at the ends of each leg, back on the leg an equal amount on each leg until you get the lowest SWR. Then cut the folded wire and secure the ends with solder or you can simply leave the excess wire wrapped around the ends, it's up to you. I've used this method for years. I trim my dipoles for the lowest SWR at the center of the band it's going to be used on. For 40 meters, I trim dipoles at 7.150Mhz. If you only operate CW, trim it for 7.050 or lower, it's up to you.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "waterfield55" <waterfield55@...> wrote:
>
> Since I am just starting out and on a very limited budget. I figure
> to make an 80M straight dipole, probably either slightly sloped due to
> the way the trees go or an inverted V. Will be using coax for now. I
> figured I would have to put a 1-1 4-6 turn near the antenna feed
> point and another just before the shack. Just when you think you have
> VHF/UHF antennas figured out. They are kids play compared to HF. I
> have built all of my VHF/UHF antennas. All of a sudden for HF you get
> into chokes, balums, coils, and tuners. Gotta love this hobby!!
>
> Bob
> KD8HZC
>
> --- In TS-520_820_530_830@yahoogroups.com, Adam Wade
> <espresso_doppio@> wrote:
> >
> >
> > From: "Nu7z@" <Nu7z@>
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Sunday, March 1, 2009 12:55:47 PM
> > Subject: Re: [TS-520_820_530_830] G5RV Or Windom with a TS830?
> > > 65 fee per leg, at a minimum height of 50 feet in the middle, fed with
> > > 85 to 100 feet of open wire feeder, to a 300 ohm tuner.
> > One note. In modeling dpiloe antennas, I found that you can get the
> same take-off angle and gain pattern and RF gain as a dpiloe at 1/2
> wavelength above ground by instead running the dipole at 1/4
> wavelength plus one foot above ground, and running an identical dipole
> (except with the ends joined at the normal feed point location, and no
> connection to a feed line -- essentially, a reflector element) at 1
> foot off the ground directly underneath it. This may work with other
> antenna designs that are based on the dipole principal, like the
> doublet or OCF dipole, I have not modeled them to be certain. Might
> be worth looking into if you can't get your dipole-based antenna or

> long wire up high enough off the ground to be effective on the lowest
> bands you want to work...
> > Those who have mentioned problems with RF in the shack with various
> sorts of antennas (OCF dipoles and verticals often being potential
> offenders) should look seriously into adding a common mode choke at
> the feed point, if using a coax feeder, or at using a balun at the
> wall of the shack and feeding coax with a common mode choke into the
> shack rather than running the balun at the back of the rig and running
> twin lead from there out of the shack to the antenna.
> > ! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
> > ! "I write down everything I want to remember. That way, instead !
> > ! of spending a lot of time trying to remember what it is I wrote !
> > ! down, I spend z time looking for the paper I wrote it down on." !
> > ! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !
> >
>

20402. Re: [TS-520_820_530_830] Re: G5RV Or Windom with a TS830?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 18:05:04 UTC
From: Adam Wade
Topic: 20373 Message: 20402

From: w5rkl <w5rkl@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, March 2, 2009 6:55:25 AM
Subject: [TS-520_820_530_830] Re: G5RV Or Windom with a TS830?

> Ground mounted vertical require radials for best performance. A ground
> mounted vertical will work without radials but it's performance will
> be greatly reduced without radials. The length of the radials on
> ground mounted verticals is not that important but the quantity of
> radials is. Put down as many radials as possible and it doesn't matter
> if they all are not straight, just put down as many as you can.

> Verticals mounted on roof tops do require radials and the radial
> length must be cut to the frequencies the vertical will be operated
> on. If the vertical is a 5BTV, the radial must be cut to resonate on
> each band being used.

> Verticals should be mounted as far away from surround objects as
> possible since the surrounding objects, metal fences, out buildings,
> etc, will affect the verticals radiation pattern even with a lot of
> radials.

A lot of what's in here has been shown not to be correct under rigorous experimentation by N6LF, Rudy Severns. More radials is not always better, there are definite "wrong" lengths of radial to use (especially if you are only using a few of them), elevated radials are always significantly better than on- or in-ground radials, even if they are elevated as little as a foot off the ground, resonant length is typically unimportant (and on- or in-ground radials are surrounded by a lossy dielectric, so their ELECTRICAL resonant length is much longer than their PHYSICAL resonant length -- in most cases, a physical 1/4 wavelength radial on- or in-ground is about the WORST length you can use), and a ground stake will typically improve the signal strength of your station EVEN if you already have a fair number of radials.

I strongly recommend that people who want to run a vertical read Rudy's research, although it takes some effort to integrate it all and derive specific recommendations from it. His site is http://www.antennasbyn6lf.com and all of his research can be read there without having to register (or pay anything). He also regularly gives lectures on his HF vertical research at all sorts of larger ham conventions -- I saw him most recently at Last year's Pacificon, where he gave a forum on HF verticals.

! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
! "I write down everything I want to remember. That way, instead !
! of spending a lot of time trying to remember what it is I wrote !
! down, I spend z time looking for the paper I wrote it down on." !
! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !

20403. Re: TS 530S final amplifier self oscillations

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 18:06:36 UTC
From: yellow_kite
Topic: 20366 Message: 20403

> I think you want heater voltage more like 6v.
> But if you haven't rerouted the heater circuit that should be ok.
>
> Do they go wild even with the screen-grid switch off?
>

To set the record straight "

1. The filament voltage is 6.3 but they are wired in series making it 12.6

2. Of course no oscillations with SG switch off.

3. It was working okay on 20 and 40 till I decided to try 17M, then it blew the lid off, current shooting off scale and one tube giving up the ghost.

4. K4EAA on his website recommends 6146Bs be used in these hybrids and not plain 6146s or even 6146Ws. I used the one I had handy.

5. The B versions are hard to come by here in India. I was wondering if I could safely use the 6146s till I can somehow get the B variety ?

6. This is easily one the best radios I have ever owned (The others include HW-101, FT 101 ZD. TS 450S, IC 745, IC 706 Mk2G, lately FT 817ND and IC-7000) I still have all of them with the exception of the Heathkit. I simply love the receiver on 530 and despite the fact that I have other modern radios, I end up using 530 most of the time.

7. I am doing this again. Putting a fresh pair of NOS 6146s (Brimar), conditioning their heaters for a few hours before I apply any DC to plates, neutralizing them as per book on 28.5 MHz, never operating it on 17 M and saying my favorite prayers.

73

VU2YK

20404. Re: [TS-520_820_530_830] Re: G5RV Or Windom with a TS830?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 18:21:31 UTC
From: Nu7z@aol.com
Topic: 20373 Message: 20404

Hi Bob,

You really do not need a decoupling for your inverted "V" antenna -- in the old days when we were not very good about
how we did things it was more important, but today it probably won't make any difference. Sure, a balun at the antenna feedpoint
is a good thing to make sure that you have decoupled but it is not absolute. Try it without and see what you get. If you are running a resonant antenna
then it will decouple, as is part of the "V" configuration.

Now that being said, if you plan is to use it as a multi-band antenna, then yes you need the balun. And as you go from band to band you will still have some
current on the coax. This is why many of us are using ladder line and a tuner. This provides a means of "auto transforming" into resonance.

GL -- Rick NU7Z

-----Original Message-----
From: waterfield55 <waterfield55@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sun, 1 Mar 2009 5:48 pm
Subject: [TS-520_820_530_830] Re: G5RV Or Windom with a TS830?

Since I am just starting out and on a very limited budget. I figure

to make an 80M straight dipole, probably either slightly sloped due to

the way the trees go or an inverted V. Will be using coax for now. I

figured I would have to put a 1-1 4-6 turn near the antenna feed

point and another just before the shack. Just when you think you have

VHF/UHF antennas figured out. They are kids play compared to HF. I

have built all of my VHF/UHF antennas. All of a sudden for HF you get

into chokes, balums, coils, and tuners. Gotta love this hobby!!

Bob

KD8HZC

--- In TS-520_820_530_830@yahoogroups.com, Adam Wade

<espresso_doppio@...> wrote:

>

>

> From: "Nu7z@..." <Nu7z@...>

> To: TS-520_820_530_830@yahoogroups.com

> Sent: Sunday, March 1, 2009 12:55:47 PM

> Subject: Re: [TS-520_820_530_830] G5RV Or Windom with a TS830?

> > 65 fee per leg, at a minimum height of 50 feet in the middle, fed with

> > 85 to 100 feet of open wire feeder, to a 300 ohm tuner.

> One note. In modeling dpiloe antennas, I found that you can get the same take-off angle and gain pattern and RF gain as a dpiloe at 1/2 wavelength above ground by instead running the dipole at 1/4 wavelength plus one foot above ground, and running an identical dipole (except with the ends joined at the normal feed point location, and no connection to a feed line -- essentially, a reflector element) at 1 foot off the ground directly underneath it. This may work with other antenna designs that are based on the dipole principal, like the doublet or OCF dipole, I have not modeled them to be certain. Might be worth looking into if you can't get your dipole-based antenna or long wire up high enough off the ground to be effective on the lowest bands you want to work...

> Those who have mentioned problems with RF in the shack with various sorts of antennas (OCF dipoles and verticals often being potential offenders) should look seriously into adding a common mode choke at the feed point, if using a coax feeder, or at using a balun at the wall of the shack and feeding coax with a common mode choke into the shack rather than running the balun at the back of the rig and running twin lead from there out of the shack to the antenna.

> ! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !

> ! "I write down everything I want to remember. That way, instead !

> ! of spending a lot of time trying to remember what it is I wrote !

> ! down, I spend z time looking for the paper I wrote it down on." !

> ! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !

>

[Non-text portions of this message have been removed]

20405. Is there a problem burying coax with other conductors?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 19:03:50 UTC
From: freddhardeng
Topic: 20405 Message: 20405

I have 90' of 1½" pvc buried from my shack to the base of my tower.
In this conduit I have only one run of 'buryflex' coax for my current HF
antenna. Now I want to run other stuff out to the tower area and am
wondering if it is ok to put all the conductors into the same buried
pvc together. Here's what I plan on putting into the pvc:

- another run of 'buryflex'. One each for the two HF antennas that
will be on the tower, totaling 2 'buryflex' cables in the pvc.
- one cat-5 cable for my WISP antenna (internet connection)
- one 8 conductor control cable for the HAM-4 rotator
- one RG-11 coax for a UHF TV antenna
- one single conductor #12 TW solid copper to be used from tower
ground rods to the shack's radio ground rods to ensure the same potential

These 6 conductors will easily fit into the conduit, but is there
going to be a problem with this arrangement?

- Larry - NX3G

20406. Re: Heil Microphones

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 19:32:57 UTC
From: Wim Penders
Topic: 20375 Message: 20406

When I listen on the bands, the ones with $200 microphones have the most problems to reach a acceptable audio,

All you really need is a $1.- condenser microphone.
The rest is just a rip-off from very clever salesmen.

My 2 cents,

73, Wim PA0PGA

--- In TS-520_820_530_830@yahoogroups.com, Adam Wade <espresso_doppio@...> wrote:
>
>
> _____
> From: Dave Gmail <ve3wej@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, March 1, 2009 3:49:39 PM
> Subject: Re: [TS-520_820_530_830] Heil Microphones
>
>
> > wow and my heil only cost 100 bucks....
>
> The PR-40, which is a dynamic mic with some of the benefits of a condenser mic (it's also rather similar to the well-known Electro-Voice RE-20), has a retail price of $380. Add in Heil's $110 boom arm, all the cables, and the W2IHY boxes (the three together are over $700)... By comparison, I got the same end result as with that $380 Heil by spending $80 (not counting a preamp, which both mics need -- I alleviated part of the need by taking advantage of other gear in the chain).
>
> You can get a microphone pretty comparable to the Heils you mentioned for as little as $50 or 60 new if you know what to look for. Of course, most hams don't know a whole lot about commercial audio for studio or live sound reinforcement use, so they can't pick ten mics out of a catalog with 200 mics in them that they know would work for what they want to do, which is why Heil has so much of the ham market -- they present their gear directly to hams already "filtered" so the consumers don't have to learn and sort prior to choosing, and for that Heil charges a premium. W2IHY even moreso! But you can increase your AVERAGE signal level on SSB from about 5 watts with a 100W PEP rig to over *20* watts average, which is 6 db of gain without adding an amp or antenna; and that's not to mention what shaping the audio response can do to make your voice stand out above others in a pile-up or for working weak signal DX on SSB. By comparison, this

would be the
> same as leaving the audio alone and adding at least 400W PEP of
amplifier, and won't cost you nearly as much in electricity to run the
assemblage, nor will you have to increase the current-carrying
capacity of your feed lines, tuner, antenna, ground system (if you run
a vertical), etc. So despite the costs, it can make all the
difference at a far lower cost in terms of purchase and operation vs.
adding amplifier power or a higher-gain antenna. I've turned off all
the audio processing in a pile-up, spent half an hour calling without
being heard, turned the audio processing back on and busting the
pile-up in one or two calls -- on more than one occasion, no other
changes. I run a 600W PEP amp that has low buy-in and operating costs
and a multi-band trapped vertical because of the physical limitations
of my rental property, and with my audio processing I put out as much
signal as if I had a two-element beam and a legal limit amplifier. So
I consider my
> money very well-spent on the audio front end gear, especially
considering what it would cost to get the same results with the
"industry standard" stuff for Amateur use.
>
> YM, of course, MV. :D
>
> ! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
> ! "I write down everything I want to remember. That way, instead !
> ! of spending a lot of time trying to remember what it is I wrote !
> ! down, I spend z time looking for the paper I wrote it down on." !
> ! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !
>

20407. Re: Loop antenna

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 19:38:51 UTC
From: Wim Penders
Topic: 20395 Message: 20407

Alan look for the site of PB2BJ, he has some very interesting loops
build that really work on 80. And I can confirm it because I followed
the development of some of this antenna's

73, Wim PA0PGA

--- In TS-520_820_530_830@yahoogroups.com, "Alan" <alan@...> wrote:
>
> Hi,
>
> I have been following this thread with interest.
>
> Can you please supply specs for your Loop Antenna?
>
> I have a huge QRM problem on 80M and this may just be the answer I am
> looking for.
>
> Thanks and 73
>
> Alan
> ZL4FM
>
> ----- Original Message -----
> From: "Michael" <micoder@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Monday, March 02, 2009 4:07 PM
> Subject: [TS-520_820_530_830] Re: G5RV Or Windom with a TS830?
>
>
> > If you live in or near a town, you will most likely have receiver
> > noise level problems. This is a problem the plagues most hams. After
> > years of using a dipole, I bit the bullet and strung a 75 meter loop
> > around my city lot.
> >
> > It was the best decision I ever made about an antenna. My noise level
> > dropped from a normal of S6-7 to an S1-2. That makes a huge difference
> > between barely hearing someone and armchair copy. I can also tune this
> > to any band from 75 meters on up. The one exception is 15 meters. I
> > suspect my tuner is not up to it.
> >
> > A friend I talk to all the time put up a folded dipole for 75 meters
> > and got a lot of noise reduction. I have not personally tried this,
> > but he loves the reduced noise.
> >
> >

> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "waterfield55"
> > <waterfield55@> wrote:
> >>
> >> I had thought about the doublet, but lacking a tuner for now I may
> >> just home brew an 80 M no frills dipole. At least I can listen until
> >> I have a tuner.
> >>
> >> Bob
> >> KD8HZC
> >>
> >> --- In TS-520_820_530_830@yahoogroups.com, Nu7z@ wrote:
> >> >
> >> >
> >> > Hey, Lou -- The tuning on 10 and 15M may be due to the length of
> >> feeder your using. Due the math -- you may find that is a
> >> > couple of feet short for those two bands and that you are trying to
> >> make to much length to get there --
> >> >
> >> > Just a thought -- rick NU7Z
> >> >
> >> >
> >> >
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> >> >
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> >> >
> >> > -----Original Message-----
> >> > From: Lou Blasco <radio@>
> >> > To: TS-520_820_530_830@yahoogroups.com
> >> > Sent: Sun, 1 Mar 2009 3:58 pm
> >> > Subject: Re: [TS-520_820_530_830] G5RV Or Windom with a TS830?
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> >> >
> >> > Bob I forgot to add that the windom was quite touchy to operate on
> >> >
> >> > 10m unlike the G5RV. The doublet is also a bit tricky on 10m but is
> >> >
> >> > fantastic on 20m and 15m.
> >> >
> >> >
> >> >
> >> > Lou
> >> >
> >> > VK3ALB
> >> >
> >> >
> >> >
> >> > At 10:48 02/03/2009, you wrote:
> >> >
> >> > >I agree. After messing around with verticals and various
dipoles, off
> >> >
> >> > >center fed dipole(windom) and G5RV I can vouch for the simple
> >> >
> >> > >doublet. A number of operators in my local area feel that it's a
> >> >
> >> > >great performer even if you can't get it too high off the
ground. My
> >> >
> >> > >doublet is a 24 feet and fed with about 30 feet of wide spaced (6
> >> >
> >> > >inches) home brew ladder line. Works well for me, I only run 100W
> >> >
> >> > >and when I hear them I can work them.
> >> >
> >> > >
> >> >
> >> > >HOWEVER, if you are set on using either the G5RV or windom I would
> >> >
> >> > >suggest the G5RV. I've read the stuff about difficult tuning
etc but
> >> >
> >> > >can't say I've ever had that problem. I have however had problems
> >> >

> >> > >with RF in the shack with the windom or OCF dipole.
Additionally, at
> >> >
> >> > >24 feet I don't think the windom worked as well as the G5RV.
> >> >
> >> > >
> >> >
> >> > >Regards
> >> >
> >> > >
> >> >
> >> > >Lou
> >> >
> >> > >VK3ALB
> >> >
> >> > >
> >> >
> >> > >
> >> >
> >> > >At 10:22 02/03/2009, you wrote:
> >> >
> >> > >
> >> >
> >> > ><snip>
> >> >
> >> > >
> >> >
> >> > > > Look into the old design dipole, all band antennas, of the
> > past --
> >> >
> >> > >you will find that there is an all band dipole, 160 thru 10 meters
> >> >
> >> > >that will work very well for your needs.
> >> >
> >> > > > The antenna likes to be up high but that is not the worst
> > thing if
> >> >
> >> > >you can't make it higher than 50 feet. It will still perform well.
> >> >
> >> > > >
> >> >
> >> > > > 65 fee per leg, at a minimum height of 50 feet in the
middle, fed
> >> >
> >> > >with 85 to 100 feet of open wire feeder, to a 300 ohm tuner. My
> >> >
> >> > >antenna is at 90 feet at the center and it works quite well. DX is
> >> >
> >> > >fun and locals can hear me too. If you have the space why not
use it?

> >> >
> >> > > >
> >> >
> >> > > > Good luck on the project -
> >> >
> >> > > >
> >> >
> >> > >
> >> >
> >> > ><snip>
> >> >
> >> > >
> >> >
> >> > > >This antenna is called a doublet and I would also suggest that
> > if you
> >> >
> >> > > >have room for a doublet that it's the first antenna to try.
> >> >
> >> > > >
> >> >
> >> > > >I recall the late L. B. Cebik stating that the doublet should be
> >> every
> >> >
> >> > > >ham's first antenna. Then you have something to compare the
> > ones that
> >> >
> >> > > >don't work so great to.
> >> >
> >> > >
> >> >
> >> > >
> >> >
> >> > ><snip>
> >> >
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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.0.237 / Virus Database: 270.11.5/1979 - Release Date:
03/01/09
> 17:46:00
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20408. Re: [TS-520_820_530_830] Re: Loop antenna

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 19:43:50 UTC
From: Alan
Topic: 20395 Message: 20408

Thanks Wim,

I'll go have a look
----- Original Message -----
From: "Wim Penders" <wpenders@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, March 03, 2009 8:38 AM
Subject: [TS-520_820_530_830] Re: Loop antenna

> Alan look for the site of PB2BJ, he has some very interesting loops
> build that really work on 80. And I can confirm it because I followed
> the development of some of this antenna's
>
> 73, Wim PA0PGA
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Alan" <alan@...> wrote:
>>
>> Hi,
>>
>> I have been following this thread with interest.
>>
>> Can you please supply specs for your Loop Antenna?
>>
>> I have a huge QRM problem on 80M and this may just be the answer I am
>> looking for.
>>
>> Thanks and 73
>>
>> Alan
>> ZL4FM
>>
>> ----- Original Message -----
>> From: "Michael" <micoder@...>
>> To: <TS-520_820_530_830@yahoogroups.com>
>> Sent: Monday, March 02, 2009 4:07 PM
>> Subject: [TS-520_820_530_830] Re: G5RV Or Windom with a TS830?
>>
>>
>> > If you live in or near a town, you will most likely have receiver
>> > noise level problems. This is a problem the plagues most hams. After
>> > years of using a dipole, I bit the bullet and strung a 75 meter loop
>> > around my city lot.
>> >
>> > It was the best decision I ever made about an antenna. My noise level

>> > dropped from a normal of S6-7 to an S1-2. That makes a huge difference
>> > between barely hearing someone and armchair copy. I can also tune this
>> > to any band from 75 meters on up. The one exception is 15 meters. I
>> > suspect my tuner is not up to it.
>> >
>> > A friend I talk to all the time put up a folded dipole for 75 meters
>> > and got a lot of noise reduction. I have not personally tried this,
>> > but he loves the reduced noise.
>> >
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>> > --- In TS-520_820_530_830@yahoogroups.com, "waterfield55"
>> > <waterfield55@> wrote:
>> >>
>> >> I had thought about the doublet, but lacking a tuner for now I may
>> >> just home brew an 80 M no frills dipole. At least I can listen until
>> >> I have a tuner.
>> >>
>> >> Bob
>> >> KD8HZC
>> >>
>> >> --- In TS-520_820_530_830@yahoogroups.com, Nu7z@ wrote:
>> >> >
>> >> >
>> >> > Hey, Lou -- The tuning on 10 and 15M may be due to the length of
>> >> feeder your using. Due the math -- you may find that is a
>> >> > couple of feet short for those two bands and that you are trying to
>> >> make to much length to get there --
>> >> >
>> >> > Just a thought -- rick NU7Z
>> >> >
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>> >> >
>> >> > -----Original Message-----
>> >> > From: Lou Blasco <radio@>
>> >> > To: TS-520_820_530_830@yahoogroups.com
>> >> > Sent: Sun, 1 Mar 2009 3:58 pm
>> >> > Subject: Re: [TS-520_820_530_830] G5RV Or Windom with a TS830?
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>> >> > Bob I forgot to add that the windom was quite touchy to operate on
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>> >> > 10m unlike the G5RV. The doublet is also a bit tricky on 10m but is
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>> >> > fantastic on 20m and 15m.
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>> >> > Lou
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>> >> > VK3ALB
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>> >> >
>> >> > At 10:48 02/03/2009, you wrote:
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>> >> > >I agree. After messing around with verticals and various
> dipoles, off
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>> >> > >center fed dipole(windom) and G5RV I can vouch for the simple
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>> >> > >doublet. A number of operators in my local area feel that it's a
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>> >> > >great performer even if you can't get it too high off the
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>> >> > >doublet is a 24 feet and fed with about 30 feet of wide spaced (6
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>> >> > >inches) home brew ladder line. Works well for me, I only run 100W
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>> >> > >and when I hear them I can work them.

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>> >> > >HOWEVER, if you are set on using either the G5RV or windom I would
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>> >> > >suggest the G5RV. I've read the stuff about difficult tuning
> etc but
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>> >> > >can't say I've ever had that problem. I have however had problems
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>> >> > >with RF in the shack with the windom or OCF dipole.
> Additionally, at
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>> >> > >24 feet I don't think the windom worked as well as the G5RV.
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>> >> > >Regards
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>> >> > >Lou
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>> >> > >VK3ALB
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>> >> > >At 10:22 02/03/2009, you wrote:
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>> >> > > > Look into the old design dipole, all band antennas, of the
>> > past --
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>> >> > >you will find that there is an all band dipole, 160 thru 10 meters
>> >> >
>> >> > >that will work very well for your needs.
>> >> >
>> >> > > > The antenna likes to be up high but that is not the worst
>> > thing if
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>> >> > >you can't make it higher than 50 feet. It will still perform well.
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>> >> > > > 65 fee per leg, at a minimum height of 50 feet in the
> middle, fed
>> >> >
>> >> > >with 85 to 100 feet of open wire feeder, to a 300 ohm tuner. My
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>> >> > >antenna is at 90 feet at the center and it works quite well. DX is
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>> >> > >fun and locals can hear me too. If you have the space why not
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>> >> > > > Good luck on the project -
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>> >> > > >This antenna is called a doublet and I would also suggest that
>> > if you
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>> >> > > >have room for a doublet that it's the first antenna to try.
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>> >> > > > >I recall the late L. B. Cebik stating that the doublet should be
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>> >> > > > >ham's first antenna. Then you have something to compare the
>> > ones that
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>> >> > > > >don't work so great to.
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.237 / Virus Database: 270.11.5/1979 - Release Date: 03/01/09
17:46:00

20409. Re: [TS-520_820_530_830] Re: Heil Microphones

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 19:58:54 UTC
From: Adam Wade
Topic: 20375 Message: 20409

From: Wim Penders <wpenders@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, March 2, 2009 11:32:57 AM
Subject: [TS-520_820_530_830] Re: Heil Microphones

> When I listen on the bands, the ones with $200 microphones have the
> most problems to reach a acceptable audio,

> All you really need is a $1.- condenser microphone.
> The rest is just a rip-off from very clever salesmen.

chuckles Is that so? Aside from my repeatedly verified FACT that I can break through pile-ups and work with a much weaker signal on SSB with my setup vs. even having a great mic and removing the signal processing... Aside from the fact that none of the Kenwood hybrids came with a "$1 condenser microphone"...

...there's the fact that connecting a condenser microphone of any type directly to a rig without anything else (as suggested by Wim here) would result in NO output at all through the rig, since a condenser microphone requires a POWER SUPPLY to function at all.

I'd take Wim's advice with huge grains of salt, myself, as he doesn't apparently know the very basics of microphone types and how they work.

! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
! "I write down everything I want to remember. That way, instead !
! of spending a lot of time trying to remember what it is I wrote !
! down, I spend z time looking for the paper I wrote it down on." !
! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !

20410. RE: [TS-520_820_530_830] Re: Heil Microphones

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 20:01:21 UTC
From: brad
Topic: 20375 Message: 20410

Sorry but I do not agree that audio processing and a $1.00 mic will sound as good as or better than a Heil. I will take my Heil any day. Brad KB2CHY

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Wim Penders
Sent: Monday, March 02, 2009 14:33
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: Heil Microphones

When I listen on the bands, the ones with $200 microphones have the most problems to reach a acceptable audio,

All you really need is a $1.- condenser microphone.
The rest is just a rip-off from very clever salesmen.

My 2 cents,

73, Wim PA0PGA

--- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com> 830@yahoogroups.com, Adam Wade <espresso_doppio@...> wrote:
>
>
> _____
> From: Dave Gmail <ve3wej@...>
> To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com> 830@yahoogroups.com
> Sent: Sunday, March 1, 2009 3:49:39 PM
> Subject: Re: [TS-520_820_530_830] Heil Microphones
>
>
> > wow and my heil only cost 100 bucks....
>
> The PR-40, which is a dynamic mic with some of the benefits of a condenser mic (it's also rather similar to the well-known Electro-Voice RE-20), has a retail price of $380. Add in Heil's $110 boom arm, all the cables, and the W2IHY boxes (the three together are over $700)... By comparison, I got the same end result as with that $380 Heil by spending $80 (not counting a preamp, which both mics need -- I alleviated part of the need by taking advantage of other gear in the chain).
>
> You can get a microphone pretty comparable to the Heils you mentioned for as little as $50 or 60 new if you know what to look for.

Of course, most hams don't know a whole lot about commercial audio for studio or live sound reinforcement use, so they can't pick ten mics out of a catalog with 200 mics in them that they know would work for what they want to do, which is why Heil has so much of the ham market -- they present their gear directly to hams already "filtered" so the consumers don't have to learn and sort prior to choosing, and for that Heil charges a premium. W2IHY even moreso! But you can increase your AVERAGE signal level on SSB from about 5 watts with a 100W PEP rig to over *20* watts average, which is 6 db of gain without adding an amp or antenna; and that's not to mention what shaping the audio response can do to make your voice stand out above others in a pile-up or for working weak signal DX on SSB. By comparison, this would be the

> same as leaving the audio alone and adding at least 400W PEP of amplifier, and won't cost you nearly as much in electricity to run the assemblage, nor will you have to increase the current-carrying capacity of your feed lines, tuner, antenna, ground system (if you run a vertical), etc. So despite the costs, it can make all the difference at a far lower cost in terms of purchase and operation vs. adding amplifier power or a higher-gain antenna. I've turned off all the audio processing in a pile-up, spent half an hour calling without being heard, turned the audio processing back on and busting the pile-up in one or two calls -- on more than one occasion, no other changes. I run a 600W PEP amp that has low buy-in and operating costs and a multi-band trapped vertical because of the physical limitations of my rental property, and with my audio processing I put out as much signal as if I had a two-element beam and a legal limit amplifier. So I consider my

> money very well-spent on the audio front end gear, especially considering what it would cost to get the same results with the "industry standard" stuff for Amateur use.

>

> YM, of course, MV. :D

>

> ! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !

> ! "I write down everything I want to remember. That way, instead !

> ! of spending a lot of time trying to remember what it is I wrote !

> ! down, I spend z time looking for the paper I wrote it down on." !

> ! - Beryl Pfizer -=- AF6ME -=- http://www.allthing

<http://www.allthings550.com> s550.com !

>

[Non-text portions of this message have been removed]

20411. Re: [TS-520_820_530_830] Re: Loop antenna

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 20:02:51 UTC
From: Gmail - Kevin, Natalia, Stacey & Rochelle
Topic: 20395 Message: 20411

Wim
A Google search of the call sign does not bring anything up.
Also QRZ.com does not show anything either.
I too would be interested.

Kevin

Get Skype and call me for free.

----- Original Message -----
From: Wim Penders
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, March 03, 2009 8:38 AM
Subject: [TS-520_820_530_830] Re: Loop antenna

Alan look for the site of PB2BJ, he has some very interesting loops
build that really work on 80. And I can confirm it because I followed
the development of some of this antenna's

73, Wim PA0PGA

--- In TS-520_820_530_830@yahoogroups.com, "Alan" <alan@...> wrote:
>
> Hi,
>
> I have been following this thread with interest.
>
> Can you please supply specs for your Loop Antenna?
>
> I have a huge QRM problem on 80M and this may just be the answer I am
> looking for.
>
> Thanks and 73
>
> Alan
> ZL4FM
>
> ----- Original Message -----
> From: "Michael" <micoder@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Monday, March 02, 2009 4:07 PM
> Subject: [TS-520_820_530_830] Re: G5RV Or Windom with a TS830?
>
>
> > If you live in or near a town, you will most likely have receiver
> > noise level problems. This is a problem the plagues most hams. After

> > years of using a dipole, I bit the bullet and strung a 75 meter loop
> > around my city lot.
> >
> > It was the best decision I ever made about an antenna. My noise level
> > dropped from a normal of S6-7 to an S1-2. That makes a huge difference
> > between barely hearing someone and armchair copy. I can also tune this
> > to any band from 75 meters on up. The one exception is 15 meters. I
> > suspect my tuner is not up to it.
> >
> > A friend I talk to all the time put up a folded dipole for 75 meters
> > and got a lot of noise reduction. I have not personally tried this,
> > but he loves the reduced noise.
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> > <waterfield55@> wrote:
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> >> I had thought about the doublet, but lacking a tuner for now I may
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> >> > Hey, Lou -- The tuning on 10 and 15M may be due to the length of
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> >> > Just a thought -- rick NU7Z
> >> >
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> >> >
> >> > -----Original Message-----
> >> > From: Lou Blasco <radio@>
> >> > To: TS-520_820_530_830@yahoogroups.com
> >> > Sent: Sun, 1 Mar 2009 3:58 pm
> >> > Subject: Re: [TS-520_820_530_830] G5RV Or Windom with a TS830?
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> >> > Bob I forgot to add that the windom was quite touchy to operate on
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> >> > 10m unlike the G5RV. The doublet is also a bit tricky on 10m but is
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> >> > VK3ALB
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> >> >
> >> > At 10:48 02/03/2009, you wrote:
> >> >
> >> > >I agree. After messing around with verticals and various
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> >> >
> >> > >center fed dipole(windom) and G5RV I can vouch for the simple
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> >> > >doublet. A number of operators in my local area feel that it's a
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> >> > >great performer even if you can't get it too high off the
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> >> >
> >> > >doublet is a 24 feet and fed with about 30 feet of wide spaced (6

> >> >
> >> > >inches) home brew ladder line. Works well for me, I only run 100W
> >> >
> >> > >and when I hear them I can work them.
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> >> >
> >> > >HOWEVER, if you are set on using either the G5RV or windom I would
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> >> > >suggest the G5RV. I've read the stuff about difficult tuning
etc but
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> >> > >can't say I've ever had that problem. I have however had problems
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> >> > >with RF in the shack with the windom or OCF dipole.
Additionally, at
> >> >
> >> > >24 feet I don't think the windom worked as well as the G5RV.
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> >> > > Look into the old design dipole, all band antennas, of the
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> >> >
> >> > >you will find that there is an all band dipole, 160 thru 10 meters
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> >> > >that will work very well for your needs.
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> >> > > The antenna likes to be up high but that is not the worst
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> >> > >you can't make it higher than 50 feet. It will still perform well.
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> >> > > > 65 fee per leg, at a minimum height of 50 feet in the
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> >> > >with 85 to 100 feet of open wire feeder, to a 300 ohm tuner. My
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> >> > >antenna is at 90 feet at the center and it works quite well. DX is
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> >> > > > >This antenna is called a doublet and I would also suggest that
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> >> > > > >have room for a doublet that it's the first antenna to try.
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>

[Non-text portions of this message have been removed]

20412. Re: [TS-520_820_530_830] Re: Heil Microphones

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 20:04:45 UTC
From: Nu7z@aol.com
Topic: 20375 Message: 20412

Hi Group - interesting thread on microphones --

It equates to using preamps on repeaters, in some respects. If you believe it is better then it must be, as I was told one time.

However, that being said, isn't interesting to note that our radios, unless modified in some way, only pass about 300 to 3K of audio spectrum anyway.
Oh, there are those the will dispute that but, in the general sense it is true. and Wim is correct in that spending all of those hard earned dollars, may not improve your audio at all. Another interesting note here is that, on the morning net on day, a gentleman came on and asked if his audio was OK. The replies were that it was, then he set about to tell everyone that his normal microphone had bit the dust so he rigged up a microphone off of his portable Radioshack cassette recorder so that he could check in !
Hmmmm, well it worked and, if he hadn't said anything, no one would have been the wiser.

Just another input --

Rick NU7Z

-----Original Message-----
From: Wim Penders <wpenders@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Mon, 2 Mar 2009 11:32 am
Subject: [TS-520_820_530_830] Re: Heil Microphones

When I listen on the bands, the ones with $200 microphones have the

most problems to reach a acceptable audio,

All you really need is a $1.- condenser microphone.

The rest is just a rip-off from very clever salesmen.

My 2 cents,

73, Wim PA0PGA

--- In TS-520_820_530_830@yahoogroups.com, Adam Wade

<espresso_doppio@...> wrote:

>

>

> _____

> From: Dave Gmail <ve3wej@...>

> To: TS-520_820_530_830@yahoogroups.com

> Sent: Sunday, March 1, 2009 3:49:39 PM

> Subject: Re: [TS-520_820_530_830] Heil Microphones

>

>

> > wow and my heil only cost 100 bucks....

>

> The PR-40, which is a dynamic mic with some of the benefits of a condenser mic (it's also rather similar to the well-known Electro-Voice RE-20), has a retail price of $380. Add in Heil's $110 boom arm, all the cables, and the W2IHY boxes (the three together are over $700)... By comparison, I got the same end result as with that $380 Heil by spending $80 (not counting a preamp, which both mics need -- I alleviated part of the need by taking advantage of other gear in the chain).

>

> You can get a microphone pretty comparable to the Heils you mentioned for as little as $50 or 60 new if you know what to look for. Of course, most hams don't know a whole lot about commercial audio for studio or live sound reinforcement use, so they can't pick ten mics out of a catalog with 200 mics in them that they know would work for what they want to do, which is why Heil has so much of the ham market -- they present their gear directly to hams already "filtered" so the consumers don't have to learn and sort prior to choosing, and for that Heil charges a premium. W2IHY even moreso! But you can increase your AVERAGE signal level on SSB from about 5 watts with a 100W PEP rig to over *20* watts average, which is 6 db of gain without adding an amp or antenna; and that's not to mention what shaping the audio response can do to make your voice stand out above others in a

pile-up or for working weak signal DX on SSB. By comparison, this would be the
> same as leaving the audio alone and adding at least 400W PEP of amplifier, and won't cost you nearly as much in electricity to run the assemblage, nor will you have to increase the current-carrying capacity of your feed lines, tuner, antenna, ground system (if you run a vertical), etc. So despite the costs, it can make all the difference at a far lower cost in terms of purchase and operation vs. adding amplifier power or a higher-gain antenna. I've turned off all the audio processing in a pile-up, spent half an hour calling without being heard, turned the audio processing back on and busting the pile-up in one or two calls -- on more than one occasion, no other changes. I run a 600W PEP amp that has low buy-in and operating costs and a multi-band trapped vertical because of the physical limitations of my rental property, and with my audio processing I put out as much signal as if I had a two-element beam and a legal limit amplifier. So I consider my
> money very well-spent on the audio front end gear, especially considering what it would cost to get the same results with the "industry standard" stuff for Amateur use.
>
> YM, of course, MV. :D
>
> ! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
> ! "I write down everything I want to remember. That way, instead !
> ! of spending a lot of time trying to remember what it is I wrote !
> ! down, I spend z time looking for the paper I wrote it down on." !
> ! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !
>

[Non-text portions of this message have been removed]

20413. RE: [TS-520_820_530_830] Is there a problem burying coax with other conductors?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 20:16:56 UTC
From: BRENT BAUM
Topic: 20405 Message: 20413

I don't see any problems. Its all shielded, except the ground wire. Some will recommend running the ground wire bare in the soil to reduce induced currents in the other cables and to "bleed off" any charge developing along its length. Of course the shields on the other cables will require proper grounding as well. There are a couple of other groups who talk towers and grounding fairly extensively who may have better answers. Check out "Tower Talk" for one.

73, K7MEI Brent

To: TS-520_820_530_830@yahoogroups.com
From: imtlog@...
Date: Mon, 2 Mar 2009 19:03:50 +0000
Subject: [TS-520_820_530_830] Is there a problem burying coax with other conductors?

I have 90' of 1½" pvc buried from my shack to the base of my tower.
In this conduit I have only one run of 'buryflex' coax for my current HF
antenna. Now I want to run other stuff out to the tower area and am
wondering if it is ok to put all the conductors into the same buried
pvc together. Here's what I plan on putting into the pvc:

- another run of 'buryflex'. One each for the two HF antennas that
will be on the tower, totaling 2 'buryflex' cables in the pvc.
- one cat-5 cable for my WISP antenna (internet connection)
- one 8 conductor control cable for the HAM-4 rotator
- one RG-11 coax for a UHF TV antenna
- one single conductor #12 TW solid copper to be used from tower
ground rods to the shack's radio ground rods to ensure the same potential

These 6 conductors will easily fit into the conduit, but is there
going to be a problem with this arrangement?

- Larry - NX3G

[Non-text portions of this message have been removed]

20414. Re: [TS-520_820_530_830] Re: Heil Microphones

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 20:21:47 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20375 Message: 20414

On Mon, 2009-03-02 at 15:04 -0500, Nu7z@... wrote:
> Hi Group - interesting thread on microphones --
>
> It equates to using preamps on repeaters, in some respects. If you believe it is better then it must be, as I was told one time.
>
> However, that being said, isn't interesting to note that our radios,
> unless modified in some way, only pass about 300 to 3K of audio
> spectrum anyway.
> Oh, there are those the will dispute that but, in the general sense it
> is true. and Wim is correct in that spending all of those hard earned
> dollars, may not improve your audio
> at all.

But the £2000 gold-leaf diaphragm condenser mike with valve preamps and oxygen-free grain-orientated copper cables give my SSB transmissions so much more air and depth! It's true I tell you!

I've got about a dozen mikes sitting in the studio here. Some are very cheap and crappy, some are very expensive. The most expensive one cost more than I've ever spent on a car (although that's not saying much, truth be told). I can tell the difference between the *really* crap ones and the rest. Stick it through a 300-3400Hz filter and I doubt I could tell. My favourites are a set of Audio-Technica MB-1ks that cost me about 20 quid for a pair. My recording purist studio-mate hates them - "you can't record my guitar part with that, it's a dynamic mike!" - but that's okay, he can't play the guitar well enough to notice the difference anyway. And there we have it - you can't buy mike technique, you have to learn it.

Those of us with a more technical bent might have read Wim's comment about "condenser" mikes as being more likely to apply to electret mikes. These are far more common in communications equipment than proper condenser mikes, and typically run off their own small battery if they're an "aftermarket" part. Some of them run off a supply in the radio. If need be, you can add your own 1.5v battery and 1k resistor to power it up (they have a tiny FET inside). True condenser mikes typically need a higher voltage and a balanced input - not something you're going to quickly hack together.

Gordon

20415. Re: [TS-520_820_530_830] Re: Heil Microphones

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 20:23:46 UTC
From: Adam Wade
Topic: 20375 Message: 20415

From: brad <kb2chy@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, March 2, 2009 12:01:21 PM
Subject: RE: [TS-520_820_530_830] Re: Heil Microphones

> Sorry but I do not agree that audio processing and a $1.00 mic will sound as
> good as or better than a Heil. I will take my Heil any day. Brad KB2CHY
Wim appears to have been saying that a $1 microphone was as good as any combination of mic and audio processing.
I'll put my $80 studio condenser mic up against any Heil, though, particularly the PR-40. :D There are many mics out there that will equal or exceed the performance of a given Heil for less money, it's simply a matter of figuring out what works well. I am sure you saw my equipment comparison of what I have and what I spent vs. getting equivalent performance from Heil and W2IHY gear. I'm always available for a sked if anyone wants to hear the results. :D I have several transceivers and other mics I can use, can turn off the audio processing, etc. for direct A/B comparisons. Hearing is believing. :)
! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
! "I write down everything I want to remember. That way, instead !
! of spending a lot of time trying to remember what it is I wrote !
! down, I spend z time looking for the paper I wrote it down on." !
! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !

20416. Re: Loop antenna

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 19:37:03 UTC
From: archer5949
Topic: 20395 Message: 20416

Hello,

My 80m loop antenna was the best antenna I have every built. The dimensions were 70 ft on all four sides, fed at the corner with 450 ohm ladder line about 35' up. I used an older Vectronics tuner and that antenna was great especially on 17m. Like was mentioned before a very quiet antenna. If you have room you wouldn't be disappointed in this one. (wish I had room for one where I live now.

73,
Kevin

--- In TS-520_820_530_830@yahoogroups.com, "Alan" <alan@...> wrote:
>
> Hi,
>
> I have been following this thread with interest.
>
> Can you please supply specs for your Loop Antenna?
>
> I have a huge QRM problem on 80M and this may just be the answer I am
> looking for.
>
> Thanks and 73
>
> Alan
> ZL4FM
>
> ----- Original Message -----
> From: "Michael" <micoder@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Monday, March 02, 2009 4:07 PM
> Subject: [TS-520_820_530_830] Re: G5RV Or Windom with a TS830?
>
>
> > If you live in or near a town, you will most likely have receiver
> > noise level problems. This is a problem the plagues most hams. After
> > years of using a dipole, I bit the bullet and strung a 75 meter loop
> > around my city lot.
> >
> > It was the best decision I ever made about an antenna. My noise level
> > dropped from a normal of S6-7 to an S1-2. That makes a huge difference
> > between barely hearing someone and armchair copy. I can also tune this
> > to any band from 75 meters on up. The one exception is 15 meters. I
> > suspect my tuner is not up to it.
> >

> > A friend I talk to all the time put up a folded dipole for 75 meters
> > and got a lot of noise reduction. I have not personally tried this,
> > but he loves the reduced noise.
> >
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "waterfield55"
> > <waterfield55@> wrote:
> >>
> >> I had thought about the doublet, but lacking a tuner for now I may
> >> just home brew an 80 M no frills dipole. At least I can listen until
> >> I have a tuner.
> >>
> >> Bob
> >> KD8HZC
> >>
> >> --- In TS-520_820_530_830@yahoogroups.com, Nu7z@ wrote:
> >> >
> >> >
> >> > Hey, Lou -- The tuning on 10 and 15M may be due to the length of
> >> feeder your using. Due the math -- you may find that is a
> >> > couple of feet short for those two bands and that you are trying to
> >> make to much length to get there --
> >> >
> >> > Just a thought -- rick NU7Z
> >> >
> >> >
> >> >
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> >> >
> >> > -----Original Message-----
> >> > From: Lou Blasco <radio@>
> >> > To: TS-520_820_530_830@...m
> >> > Sent: Sun, 1 Mar 2009 3:58 pm
> >> > Subject: Re: [TS-520_820_530_830] G5RV Or Windom with a TS830?
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> >> >
> >> > Bob I forgot to add that the windom was quite touchy to operate on
> >> >
> >> > 10m unlike the G5RV. The doublet is also a bit tricky on 10m but is
> >> >
> >> > fantastic on 20m and 15m.
> >> >
> >> >
> >> >
> >> > Lou
> >> >
> >> > VK3ALB
> >> >
> >> >
> >> >
> >> > At 10:48 02/03/2009, you wrote:
> >> >
> >> > >I agree. After messing around with verticals and various
dipoles, off
> >> >
> >> > >center fed dipole(windom) and G5RV I can vouch for the simple
> >> >
> >> > >doublet. A number of operators in my local area feel that it's a
> >> >
> >> > >great performer even if you can't get it too high off the
ground. My
> >> >
> >> > >doublet is a 24 feet and fed with about 30 feet of wide spaced (6
> >> >
> >> > >inches) home brew ladder line. Works well for me, I only run 100W
> >> >
> >> > >and when I hear them I can work them.
> >> >
> >> > >
> >> >
> >> > >HOWEVER, if you are set on using either the G5RV or windom I would
> >> >

> >> > >suggest the G5RV. I've read the stuff about difficult tuning
etc but
> >> >
> >> > >can't say I've ever had that problem. I have however had problems
> >> >
> >> > >with RF in the shack with the windom or OCF dipole.
Additionally, at
> >> >
> >> > >24 feet I don't think the windom worked as well as the G5RV.
> >> >
> >> > >
> >> >
> >> > >Regards
> >> >
> >> > >
> >> >
> >> > >Lou
> >> >
> >> > >VK3ALB
> >> >
> >> > >
> >> >
> >> > >
> >> >
> >> > >At 10:22 02/03/2009, you wrote:
> >> >
> >> > >
> >> >
> >> > ><snip>
> >> >
> >> > >
> >> >
> >> > > > Look into the old design dipole, all band antennas, of the
> > past --
> >> >
> >> > >you will find that there is an all band dipole, 160 thru 10 meters
> >> >
> >> > >that will work very well for your needs.
> >> >
> >> > > > The antenna likes to be up high but that is not the worst
> > thing if
> >> >
> >> > >you can't make it higher than 50 feet. It will still perform well.
> >> >
> >> > >
> >> >
> >> > > > 65 fee per leg, at a minimum height of 50 feet in the
middle, fed
> >> >
> >> > >with 85 to 100 feet of open wire feeder, to a 300 ohm tuner. My

> >> >
> >> > >antenna is at 90 feet at the center and it works quite well. DX is
> >> >
> >> > >fun and locals can hear me too. If you have the space why not
use it?
> >> >
> >> > > >
> >> >
> >> > > > Good luck on the project -
> >> >
> >> > > > >
> >> >
> >> > > >
> >> >
> >> > ><snip>
> >> >
> >> > > >
> >> >
> >> > > > >This antenna is called a doublet and I would also suggest that
> > if you
> >> >
> >> > > > >have room for a doublet that it's the first antenna to try.
> >> >
> >> > > > >
> >> >
> >> > > > > >I recall the late L. B. Cebik stating that the doublet should be
> >> every
> >> >
> >> > > > >ham's first antenna. Then you have something to compare the
> > ones that
> >> >
> >> > > > >don't work so great to.
> >> >
> >> > > >
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> >> > ><snip>
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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.0.237 / Virus Database: 270.11.5/1979 - Release Date:
03/01/09
> 17:46:00
>

20417. Kenwood AT-230 ATU Help please.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 19:37:45 UTC
From: mm3ycg@btinternet.com
Topic: 20417 Message: 20417

Hello group, I have recently bought a Kenwood AT-230 ATU for my Yaesu FT-847 and I've been trying to tune In my radio with a half size G5RV antenna. I have read the manual for the ATU a few times but I am still getting a high SWR indicator flashing on my radio when i TX. Could someone please help me as I think I may be doing something wrong when I am unable to get the SWR down and I don't want do damage my radio. The manual for the tuner doesen't seem to explaing everything too well.

73
Callum MM3YCG

20418. Re: [TS-520_820_530_830] Kenwood AT-230 ATU Help please.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 20:52:23 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20417 Message: 20418

On Mon, 2009-03-02 at 19:37 +0000, mm3ycg@... wrote:
> Hello group, I have recently bought a Kenwood AT-230 ATU for my Yaesu
> FT-847 and I've been trying to tune In my radio with a half size G5RV

Oooh, you don't want one of those for an FT-847. Better sell it to me cheaply so it can be used with a proper Trio rig ;-) I'll pop over just now shall I?

More seriously, have you checked that your earth is good? You *are* using the "matching" setting and not "through", right?

Set the band switch to the band you're on, and the R and X controls somewhere between about a half and fully-clockwise depending on what band you're on. Half for top band, full for 10m. With the meter set to measure reflected power, tune R and X for the lowest reading. It takes a bit of practice but at least you don't have a pi network to tune as well ;-)

You're not very far from me, so if you get totally stuck drop me an email offlist or get me on CS if you want me to take a look.

HTH
Gordon

20419. Re: [TS-520_820_530_830] Re: G5RV Or Windom with a TS830?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 20:55:43 UTC
From: Adam Wade
Topic: 20373 Message: 20419

From: waterfield55 <waterfield55@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, March 1, 2009 5:48:35 PM
Subject: [TS-520_820_530_830] Re: G5RV Or Windom with a TS830?

> Since I am just starting out and on a very limited budget. I figure
> to make an 80M straight dipole, probably either slightly sloped due to
> the way the trees go or an inverted V.

And that will be a good choice for 80m, and will probably work fairly well on 40m and 20m as well. I don't have a whole lot of spare time right now, or I'd offer to model your antenna for you in EZNEC, but it might be a while before I can try out various options in installation and give you feedback on what would work best for your particular limitations for installation.

> Will be using coax for now. I
> figured I would have to put a 1-1 4-6 turn near the antenna feed
> point and another just before the shack.

Are you running barefoot? Chances are you are going to suffer substantial losses in the coax unless you have a proper RF transformer at the antenna's feedpoint to convert the feed point impedance to the 50 ohms impedance for the coax. That's one of the nice things about using twin-lead; aside from some heating losses in the dielectric material, you get far, far lower feedline losses even with a significant impedance mismatch. You may want to consider using twin lead from the antenna's feed point to the wall of your shack, then having a balun there and running coax from the balun in through the wall to your transceiver. This gives you the advantage of twin lead (extremely low loss even with large mismatch), means you don't have to put a (possibly a bit heavy) balun up in the air, and lets you get the advantage of coax (no RF in the shack with proper balun and/or RF choke, direct connection to most transceivers).

The larger the impedance mismatch, and the more power you are running, AND the lower the frequency, the larger your coax choke will need to be to remove RF from the outside of the braid. Assuming you avoid hitting resonance on some frequency you'll be using (which would make the RF on the outside of the braid FAR greater rather than FAR lesser than with no choke), the choke will have a certain number of db of attenuation at a given frequency. Some choke will reduce the RF on the braid, and more choke might eliminate it, but adding more power, changing to a lower frequency, or increasing the impedance mismatch will increase the signal strength of the RF on the braid. The less RF on the braid, the better, but of course removing RF from the outside of the braid on the coax will not do much to i\ncrease the amount of signal that goes into the antenna. So ultimately it's all relative. Same goes for antenna tuners; if there's not much mismatch, then you
can often run far greater power through a tuner than it is rated for without problems (though for safety reasons I do not recommend this!).

> Just when you think you have
> VHF/UHF antennas figured out. They are kids play compared to HF. I
> have built all of my VHF/UHF antennas. All of a sudden for HF you get
> into chokes, balums, coils, and tuners. Gotta love this hobby!!

V/U antennas are generally more limited in the types that are used. Space and height considerations are far less of an issue, so it's a lot easier to just limit the number of antenna configurations one chooses from. And interestingly, all the same principles apply to V/U antennas; most V/U antennas, especially mobile mag mounts and handheld whips, are really poorly matched to their transceivers! V/U radios today (and most HF rigs as well, actually) have "auto-foldback", or negative RF feedback in the PA section, which just turns down the power automagically when the PA is presented with a bad mismatch and a lot of signal being returned to the finals down the feedline. With a good tank circuit in a tube-type PA (i.e., with components that can handle very high voltages and currents, and therefore high mismatches for a given power level) and ladder line, you can feed almost any antenna design imaginable, of any feedpoint impedance, without worry; you
just may end up with a funny pattern and a lot of spurs on harmonic frequencies, but you will put out a signal on your target frequency without blowing anything up, lighting anything on fire, or letting out any smoke. ;) Coaxial cable makes matching a much bigger issue, since losses are a lot higher (and you can actually light coaxial cable on FIRE with a sufficient mismatch and enough power in -- it's quite possible to do so on many types of coax at notably less than legal limit power for Amateur HF bands!), and of course RF noise levels tend to be higher now than they were before WW II... Efficiency in the antenna system can be good for many db of RF gain, and so can save you a lot of money in the long run where such improvements are possible (running HF mobile, for instance, may not allow you to improve your antenna match and efficiency very much because of physical space and wind load limitations). And the smaller and more automated you want
things, as a rule, the less they can handle extremes, so modern, compact auto-tuners cannot typically handle very large mismatches in impedance; thus having the right balun not only helps lower RF losses to the receiver on the other end, but in many cases are necessary to keep the more limited equipment used more often today within its operational limits.
And of course, it doesn't take much V/U power to make a contact within a reasonable line of sight, so modern mobile V/U rigs with 60 watts output should be capable of overcoming almost any limitations in a mobile V/U antenna system. I have a dual-band onmi whip on the truck that's basically the equivalent of a 5/8 wave on 2m (thus a few db of gain over a 1/4 wave vert), and with it attached directly to the truck roof with an NMO mount, I am full quieting into one of the local repeaters that's about 30 miles away with FIFTY milliwatts. Yes, 0.05 watts. That's 30 decibels of RF *down* on 60W out. So running 60W mobile I could use an antenna system with 30 db of loss in it compared to my current antenna and STILL be full quieting into that repeater. Of course, any system with that much loss in it, unless it's purely resistive loss, is going to cause the rig to fold back its RF output a lot to prevent damaging the finals... But you can have a pretty
poorly matched, lossy mobile setup for V/U and STILL be full quieting into the repeater without any indication to you the user that there is any loss at all -- unless you use a field strength meter at some point and compare to a known signal level generator system with the same field strength meter (unless yours is highly calibrated). So maybe V/U is not really simpler, per se, it just is more forgiving, especially in FM, and unless you go digging, it can be a lot harder to see where loss might be happening. FM covers a lot of problems, and high power for the distance covers a lot more (HF signals have to bounce off of lossy earth AND somewhat lossy ionosphere, sometimes many times, before they reach their destination, and the RF power output of a 60W V/U mobile rig is less than 3 db down from the signal strength of a 100W HF transmitter, yet we expect the HF signal, with the loss from many bounces off of these lossy things, and the much higher
received noise levels of AM, SSB, etc. to travel thousands of miles -- while we only expect V/U signals to go maybe 50 with almost the same RF field strength!)

```
! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
! "I write down everything I want to remember. That way, instead !
! of spending a lot of time trying to remember what it is I wrote !
! down, I spend z time looking for the paper I wrote it down on." !
! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !
```

20420. Re: [TS-520_820_530_830] Kenwood AT-230 ATU Help please.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 20:58:41 UTC
From: Udo W.F. Visintini
Topic: 20417 Message: 20420

Just looked at the AT-230 Tuner manual.
The tuning range is 10 to 500 ohm, with a half size G5RV, you are possibly out of the tuning range of the tuner.
Check your ground also, very important

All the best, 73 de Udo (KF4KUL)

QSL: P.O. Box 4135
St. Petersburg, FL. 33731 USA

Proud Member of the ALPHA-ALPHA Group and Lealman CERT Group
SCARS # 7321
Echo Link Node # 273835 Stand Alone (Link) 145.650 MHz
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APRS WX- Station (Pinellas County, FL.)
Sedan Node STPTE (kf4kul-7),DADE(kf4kul-8)

--- On Mon, 3/2/09, mm3ycg@... <mm3ycg@...> wrote:

From: mm3ycg@btinternet.com <mm3ycg@...>
Subject: [TS-520_820_530_830] Kenwood AT-230 ATU Help please.
To: TS-520_820_530_830@yahoogroups.com
Date: Monday, March 2, 2009, 2:37 PM

Hello group, I have recently bought a Kenwood AT-230 ATU for my Yaesu FT-847 and I've been trying to tune In my radio with a half size G5RV antenna. I have read the manual for the ATU a few times but I am still getting a high SWR indicator flashing on my radio when i TX. Could someone please help me as I think I may be doing something wrong when I am unable to get the SWR down and I don't want do damage my radio. The manual for the tuner doesen't seem to explaing everything too well.

73
Callum MM3YCG

[Non-text portions of this message have been removed]

20421. Re: Heil Microphones

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 21:29:40 UTC
From: Wim Penders
Topic: 20375 Message: 20421

Of course you need a way to feed a small voltage to the mike. And a box to put it in with a PTT switch. Better use one of this horrid CB microphones and replace the electrical works. You will be surprised. I use this kind of microphones for years with no problems on several transceivers from FT-101ZD to IC756. A little processing will do the rest.

I am having a F licence(= the highest you can get overhere,including morse) for 43 years now, and building most stuff myself, so think I have some experience even in dx-ing too (322 countries fone confirmed). Why do you think the handy manufacturers all use electrets for years, only because they are cheap and have excellent voice quality. You can test that everyday with your own handy.

For your remark: Aside from the fact that none of the Kenwood hybrids came with a "$1 condenser microphone"...
the answer is that they have, but only make a nice profit on it.

Of course you mileage will vary, as is your good right to do, but it is not the only way.

73, Wim PA0PGA

--- In TS-520_820_530_830@yahoogroups.com, Adam Wade <espresso_doppio@...> wrote:
>
>
> _____
> From: Wim Penders <wpenders@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, March 2, 2009 11:32:57 AM
> Subject: [TS-520_820_530_830] Re: Heil Microphones
>
>
> > When I listen on the bands, the ones with $200 microphones have the
> > most problems to reach a acceptable audio,
>
> > All you really need is a $1.- condenser microphone.
> > The rest is just a rip-off from very clever salesmen.
>
> *chuckles* Is that so? Aside from my repeatedly verified FACT that I can break through pile-ups and work with a much weaker signal on SSB with my setup vs. even having a great mic and removing the signal processing... Aside from the fact that none of the Kenwood hybrids came with a "$1 condenser microphone"...
>
> ...there's the fact that connecting a condenser microphone of any

type directly to a rig without anything else (as suggested by Wim here) would result in NO output at all through the rig, since a condenser microphone requires a POWER SUPPLY to function at all.
>
> I'd take Wim's advice with huge grains of salt, myself, as he doesn't apparently know the very basics of microphone types and how they work.
>
> ! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
> ! "I write down everything I want to remember. That way, instead !
> ! of spending a lot of time trying to remember what it is I wrote !
> ! down, I spend z time looking for the paper I wrote it down on." !
> ! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !
>

20422. Re: Loop antenna

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 21:34:39 UTC
From: Wim Penders
Topic: 20395 Message: 20422

You find it here:

http://wassenaar.radiogroup.org/users/pb2dj/

It is on QRZ.com too but you have to click the click for more details button.

Have fun

73, Wim PA0PGA

--- In TS-520_820_530_830@yahoogroups.com, "Gmail - Kevin, Natalia, Stacey & Rochelle" <sparcnz@...> wrote:
>
> Wim
> A Google search of the call sign does not bring anything up.
> Also QRZ.com does not show anything either.
> I too would be interested.
>
> Kevin
>
> Get Skype and call me for free.
>
>
> ----- Original Message -----
> From: Wim Penders
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, March 03, 2009 8:38 AM
> Subject: [TS-520_820_530_830] Re: Loop antenna
>
>
> Alan look for the site of PB2BJ, he has some very interesting loops
> build that really work on 80. And I can confirm it because I followed
> the development of some of this antenna's
>
> 73, Wim PA0PGA
>
> --- In TS-520_820_530_830@yahoogroups.com, "Alan" <alan@> wrote:
> >
> > Hi,
> >
> > I have been following this thread with interest.
> >
> > Can you please supply specs for your Loop Antenna?
> >
> > I have a huge QRM problem on 80M and this may just be the answer

I am
> > looking for.
> >
> > Thanks and 73
> >
> > Alan
> > ZL4FM
> >
> > ----- Original Message -----
> > From: "Michael" <micoder@>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Monday, March 02, 2009 4:07 PM
> > Subject: [TS-520_820_530_830] Re: G5RV Or Windom with a TS830?
> >
> >
> > > If you live in or near a town, you will most likely have receiver
> > > noise level problems. This is a problem the plagues most hams.
After
> > > years of using a dipole, I bit the bullet and strung a 75
meter loop
> > > around my city lot.
> > >
> > > It was the best decision I ever made about an antenna. My
noise level
> > > dropped from a normal of S6-7 to an S1-2. That makes a huge
difference
> > > between barely hearing someone and armchair copy. I can also
tune this
> > > to any band from 75 meters on up. The one exception is 15
meters. I
> > > suspect my tuner is not up to it.
> > >
> > > A friend I talk to all the time put up a folded dipole for 75
meters
> > > and got a lot of noise reduction. I have not personally tried
this,
> > > but he loves the reduced noise.
> > >
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "waterfield55"
> > > <waterfield55@> wrote:
> > >>
> > >> I had thought about the doublet, but lacking a tuner for now
I may
> > >> just home brew an 80 M no frills dipole. At least I can
listen until
> > >> I have a tuner.
> > >>

> > >> Bob
> > >> KD8HZC
> > >>
> > >> --- In TS-520_820_530_830@yahoogroups.com, Nu7z@ wrote:
> > >> >
> > >> >
> > >> > Hey, Lou -- The tuning on 10 and 15M may be due to the
length of
> > >> feeder your using. Due the math -- you may find that is a
> > >> > couple of feet short for those two bands and that you are
trying to
> > >> make to much length to get there --
> > >> >
> > >> > Just a thought -- rick NU7Z
> > >> >
> > >> >
> > >> >
> > >> >
> > >> >
> > >> >
> > >> >
> > >> > -----Original Message-----
> > >> > From: Lou Blasco <radio@>
> > >> > To: TS-520_820_530_830@yahoogroups.com
> > >> > Sent: Sun, 1 Mar 2009 3:58 pm
> > >> > Subject: Re: [TS-520_820_530_830] G5RV Or Windom with a TS830?
> > >> >
> > >> >
> > >> >
> > >> >
> > >> >
> > >> >
> > >> >

> > >> >
> > >> >
> > >> > Bob I forgot to add that the windom was quite touchy to
operate on
> > >> >
> > >> > 10m unlike the G5RV. The doublet is also a bit tricky on
10m but is
> > >> >
> > >> > fantastic on 20m and 15m.
> > >> >
> > >> >
> > >> >
> > >> > Lou
> > >> >
> > >> > VK3ALB
> > >> >
> > >> >
> > >> >
> > >> > At 10:48 02/03/2009, you wrote:
> > >> >
> > >> > >I agree. After messing around with verticals and various
> dipoles, off
> > >> >
> > >> > >center fed dipole(windom) and G5RV I can vouch for the simple
> > >> >
> > >> > >doublet. A number of operators in my local area feel that
it's a
> > >> >
> > >> > >great performer even if you can't get it too high off the
> ground. My
> > >> >
> > >> > >doublet is a 24 feet and fed with about 30 feet of wide
spaced (6
> > >> >
> > >> > >inches) home brew ladder line. Works well for me, I only
run 100W
> > >> >
> > >> > >and when I hear them I can work them.
> > >> >
> > >> > >
> > >> >
> > >> > >HOWEVER, if you are set on using either the G5RV or windom
I would
> > >> >
> > >> > >suggest the G5RV. I've read the stuff about difficult tuning
> etc but
> > >> >
> > >> > >can't say I've ever had that problem. I have however had
problems
> > >> >

> > >> > >with RF in the shack with the windom or OCF dipole.
> Additionally, at
> > >> >
> > >> > >24 feet I don't think the windom worked as well as the G5RV.
> > >> >
> > >> > >
> > >> >
> > >> > >Regards
> > >> >
> > >> > >
> > >> >
> > >> > >Lou
> > >> >
> > >> > >VK3ALB
> > >> >
> > >> > >
> > >> >
> > >> > >
> > >> >
> > >> > >At 10:22 02/03/2009, you wrote:
> > >> >
> > >> > >
> > >> >
> > >> > ><snip>
> > >> >
> > >> > >
> > >> >
> > >> > > > Look into the old design dipole, all band antennas, of the
> > > past --
> > >> >
> > >> > >you will find that there is an all band dipole, 160 thru
10 meters
> > >> >
> > >> > >that will work very well for your needs.
> > >> >
> > >> > > > The antenna likes to be up high but that is not the worst
> > > thing if
> > >> >
> > >> > >you can't make it higher than 50 feet. It will still
perform well.
> > >> >
> > >> > > >
> > >> >
> > >> > > > 65 fee per leg, at a minimum height of 50 feet in the
> middle, fed
> > >> >
> > >> > >with 85 to 100 feet of open wire feeder, to a 300 ohm
tuner. My
> > >> >
> > >> > >antenna is at 90 feet at the center and it works quite

well. DX is
> > >> >
> > >> > >fun and locals can hear me too. If you have the space why not
> use it?
> > >> >
> > >> > > >
> > >> >
> > >> > > > Good luck on the project -
> > >> >
> > >> > > > >
> > >> >
> > >> > > >
> > >> >
> > >> > ><snip>
> > >> >
> > >> > > >
> > >> >
> > >> > > > >This antenna is called a doublet and I would also
suggest that
> > > if you
> > >> >
> > >> > > > >have room for a doublet that it's the first antenna to try.
> > >> >
> > >> > > > >
> > >> >
> > >> > > > >I recall the late L. B. Cebik stating that the doublet
should be
> > >> every
> > >> >
> > >> > > > >ham's first antenna. Then you have something to compare the
> > > ones that
> > >> >
> > >> > > > >don't work so great to.
> > >> >
> > >> > > >
> > >> >
> > >> > > > >
> > >> >
> > >> > > > >
> > >> >
> > >> > ><snip>
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> > >> >
> > >> > >Yahoo! Groups Links
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> > >> >
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> --
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> >
> >
> > No virus found in this incoming message.
> > Checked by AVG - www.avg.com
> > Version: 8.0.237 / Virus Database: 270.11.5/1979 - Release Date:
> 03/01/09
> > 17:46:00
> >
>
>
>
>
> [Non-text portions of this message have been removed]
>

20423. Re: Heil Microphones

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 21:39:11 UTC
From: Wim Penders
Topic: 20375 Message: 20423

Gordon,

Of course I was speaking over a electret microphone, sorry for the confusion. But at least you know what I wanted to tell.

73, Wim PA0PGA

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce MM3YEQ <gordon@...> wrote:
>
> On Mon, 2009-03-02 at 15:04 -0500, Nu7z@... wrote:
> > Hi Group - interesting thread on microphones --
> >
> > It equates to using preamps on repeaters, in some respects. If you believe it is better then it must be, as I was told one time.
> >
> > However, that being said, isn't interesting to note that our radios,
> > unless modified in some way, only pass about 300 to 3K of audio
> > spectrum anyway.
> > Oh, there are those the will dispute that but, in the general sense it
> > is true. and Wim is correct in that spending all of those hard earned
> > dollars, may not improve your audio
> > at all.
>
> But the Â£2000 gold-leaf diaphragm condenser mike with valve preamps and
> oxygen-free grain-orientated copper cables give my SSB transmissions so
> much more air and depth! It's true I tell you!
>
> I've got about a dozen mikes sitting in the studio here. Some are very
> cheap and crappy, some are very expensive. The most expensive one cost
> more than I've ever spent on a car (although that's not saying much,
> truth be told). I can tell the difference between the *really* crap
> ones and the rest. Stick it through a 300-3400Hz filter and I doubt I
> could tell. My favourites are a set of Audio-Technica MB-1ks that cost
> me about 20 quid for a pair. My recording purist studio-mate hates them
> - "you can't record my guitar part with that, it's a dynamic mike!" -
> but that's okay, he can't play the guitar well enough to notice the
> difference anyway. And there we have it - you can't buy mike technique,
> you have to learn it.
>
> Those of us with a more technical bent might have read Wim's comment
> about "condenser" mikes as being more likely to apply to electret mikes.
> These are far more common in communications equipment than proper
> condenser mikes, and typically run off their own small battery if
> they're an "aftermarket" part. Some of them run off a supply in the
> radio. If need be, you can add your own 1.5v battery and 1k resistor to

> power it up (they have a tiny FET inside). True condenser mikes
> typically need a higher voltage and a balanced input - not something
> you're going to quickly hack together.
>
> Gordon
>

20424. Re: [TS-520_820_530_830] Re: G5RV Or Windom with a TS830?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 21:43:26 UTC
From: Dave and Loraine
Topic: 20373 Message: 20424

Please Moderators,
Enough antenna and mic emails.
Other groups cover these very well.
73 Dave f4eyk

20425. Re: [TS-520_820_530_830] Re: Heil Microphones

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 21:45:23 UTC
From: Adam Wade
Topic: 20375 Message: 20425

From: "Nu7z@..." <Nu7z@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, March 2, 2009 12:04:45 PM
Subject: Re: [TS-520_820_530_830] Re: Heil Microphones

> However, that being said, isn't interesting to note that our radios,
> unless modified in some way, only pass about 300 to 3K of audio
> spectrum anyway.

I also have a rig that passes 50 hz to 3900 hz for which I use this gear, but regardless, getting rid of some of those frequencies and increasing others WILL increase the intelligibility of your speech, and removing frequencies that cause "muddiness" frees up that power in your PA (whether your rig's finals or running a separate PA) for putting out more power in frequencies that increase intelligibility. IT's also true that even the best transmitters do generate some distortion and some harmonic output, and these can actually result in some of your audio signal ending up beyond 3 khz of BW at a receiver, even if you are limited to 3 khz out in your audio filtersing (and the audio filtering in the hybrid rigs is very unlikely to be "brick wall" in any case, meaning you are probably only down about 6 db at 4-5 khz -- I'd have to get an AF signal generator and my scope out and do some poking around to get actual numbers, but a brick-wall filter on AF from the mic is extremely unlikely).

Compression, also, increases the signal level when you are "off-peak"; as mentioned, your AVERAGE power out on SSB without audio processing is typically 3 WATTS with a 100W PEP transmitter. Increasing average power with commpression will, guaranteed, increase your average RF power out. This is what the speech processor on the Kenwood hybrid rigs does, in point of fact, although by doing it in RF, there are some advantages in getting a clean signal without overdriving anything.

If you have equalization at your disposal, you can usually make almost any microphone sound pretty good given the typical bandwidth of SSB audio, especially on rigs like our Kenwood hybrids. If you DON'T, though, then the audio properties and response of the microphone, which are very rarely flat on most microphones, can make a pretty big difference. And this can vary based on the particular timbre of your voice; some people have more "punch" in their voice with certain frequency responses, and others often do better with a different frequency response. And very few rigs give you much in the way of audio equalization on the input signal.

I will agree that there are many mics that can do a pretty good job for the limitations of our Kenwoods, and there's no need to spend $380 for a PR-40 to get that. I consider my mic to be a good buy considering it interfaces easily with the rest of the audio processing I bought, it was cheaper than most desk mics made by Amateur radio rig building companies (Icom, Kenwood, Yaesu), and provides me a nice, flat response that works with all of my rigs (including the ones that can transmit in wide-band FM, 8 khz+ bandwidth AM, etc.), plus I can also use it for recording if I am so inclined -- it's a condenser mic that can handle 144 db spl, so I get most of the benefits of a studio condenser and most of the benefits of something like an EV RE-20 (often used to mic kick drums with their extremely high SPL) on top of the rest.

With a parametric EQ, which I do have, I could get a less expensive mic to give me similar results with the Kenwood, and possibly the other rigs, but I also get build quality and a nice warranty with my mic that a really cheap mic probably wouldn't give me. And I've STILL spent less than a typical desk mic from a company like Kenwood, and I don't see anyone knocking those here...

> Wim is correct in that spending all of those hard earned dollars,
> may not improve your audio at all.

Well, that all comes down to the knowledge and skill of the operator, in both purchasing and in using the gear. Again, I'll sked with anyone who asks and you can hear for yourself how much of a difference the processing makes; I've seen it, I've gotten real-time feedback on it multiple times, and I know I am able to break pile-ups and work weak DX with my audio setup that I cannot without it. And I've spent less on it than I did on my 600W PEP HF amp, and in A/B testing the audio processing usually equals the improvement in signal intelligibility, clarity and level that I get from the power amp. Using both gets me to about the same place as using a legal limit amp, for the operating costs of a 600W amp and at about half the price of a decent legal limit amp. To me, that's money well-spent. I could have gotten the same results by home-brewing the audio chain and using a less expensive mic, but I wouldn't have had it for other uses (both the audio processing and the mic can be used for recording and live sound reinforcement, both of which I have done professionally in the past and still do for fun from time to time), and in reality I'd still have spent about $300-400 to build the stuff, with no warranty and my own time spent on designing, sourcing and building the parts.

For me, the money spent was worth it. For some, they'd rather home-brew. Some think that it's all a waste, but every time I break a pile-up with guys using beams and legal limit amps and I'm running a trapped multi-band vertical and a 600W PEP amp, I know I made cost-effective choices on what would get me what I want without having to build it all myself. Whether that cost/benefit ratio is the same for others is up to them, but there's no way a $1 condenser (or electret), by itself as Wim suggested, will put out ANY audio at all on a Kenwood hybrid -- the rig does not provide power for any powered-element mic. And I guess anyone who buys a stock mic for a mobile rig made in the last 15 years or so is "stupid" by Wim's estimation, because that $70 mic is, underneath it all, a $1 electret element, albeit in a nice case with a reliable PTT button and usually some other radio feature buttons (which to some people are worth extra money so they can run features on their mobile rig without having to stop their vehicle to work the front panel controls).

Horses for courses. I will stake the fact that my choices in buying gear were very cost-effective for the results I wanted to get, and especially so compared to what is typically sold for that purpose.

> Another interesting note here is that, on the morning net on day,
> a gentleman came on and asked if his audio was OK. The replies
> were that it was, then he set about to tell everyone that his normal
> microphone had bit the dust so he rigged up a microphone off of his
> portable Radioshack cassette recorder so that he could check in !
> Hmmmm, well it worked and, if he hadn't said anything, no one
> would have been the wiser.

I've had people with malfunctioning amps or bad feed line put out "okay signal", and they would not have been the wiser if someone had not been aware that their signal was the better part of an s-unit low compared against their usual signal level in comparison with other folks on the same net. Both the broken amp and the bad feed line would have ended up

being a lot more expensive if they had not been caught when they were. People running HF verticals often have pretty lousy ground systems, but since the difference between a "perfect" ground system and a horrible ground system is often less than 2 s-units, most of them can't tell the difference -- until they start conmparing how much DX each works with otherwise identical systems in similar locations.
Just because the difference may not arise in good-signal conditions on a regional net does not mean they don't exist, nor does it mean they are not important. If they are not important for what YOU do with HF, then certainly your money is better spent elsewhere. That does not, however, mean that spending more than you did was NOT money well-spent for someone else, whose opearational needs and limits may be different from your own. I'd never say someone was an idiot for spending $5k on a tower, rotator and several Yagis, and that's pretty cheap for a setup like that when you include pouring the concrete for the pad and installing the grounding rods and guys, renting the crane for a larger tower section, etc. And certainly there are people who do "just fine" with a simple wire dipole, too. IF these guys get what they want for what ends up being a reasonable expenditure compared to other options, then I think they are probably smart.
YMMV, QED. Best 73. :)
! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
! "I write down everything I want to remember. That way, instead !
! of spending a lot of time trying to remember what it is I wrote !
! down, I spend z time looking for the paper I wrote it down on." !
! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !

20426. Re: [TS-520_820_530_830] Re: Heil Microphones

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 21:52:54 UTC
From: Adam Wade
Topic: 20375 Message: 20426

From: Wim Penders <wpenders@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, March 2, 2009 1:29:40 PM
Subject: [TS-520_820_530_830] Re: Heil Microphones

> A little processing will do the rest.
Which is free? Included with the $1 mic that didn't actually come with the case, button and power supply?

> Why do you think the handy manufacturers all use electrets for years,
> only because they are cheap and have excellent voice quality.
They certainly can, but keep in mind that most mobile mics from Icom, Kewnood, etc. cost as much as my studio condenser did retail, and they are, as you noted, an electret element, with a case, connector, PTT button, etc. Are they "ripoffs"? To some people, just not having to source the components and assemble them into a reliable compact unit is worth the difference in price, assuming you can source the connectors and a long-life PTT switch (and that's not always cheap or easy to do, as I'm sure you know).

> For your remark: Aside from the fact that none of the Kenwood hybrids
> came with a "$1 condenser microphone". ..
> the answer is that they have, but only make a nice profit on it.
Which of the Kenwood hybrids came with an electret or condenser microphone as stock?
> Of course you mileage will vary, as is your good right to do, but it
> is not the only way.

Never said it was. But I didn't say you were stupid for using something besides what I was using; you did say I was stupid for not using what you were using.
! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
! "I write down everything I want to remember. That way, instead !
! of spending a lot of time trying to remember what it is I wrote !
! down, I spend z time looking for the paper I wrote it down on." !
! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !

20427. Re: Heil Microphones

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 22:10:04 UTC
From: Wim Penders
Topic: 20375 Message: 20427

Adam

I never intended to put someone down, my apologies.
English is not my first language, so a mistaken word can happen and I am known for erratical use of your language.

I just wanted to encourage people that have not much money to spend for their hobby, to use simpler things with good results.

Sometimes it seems that you have to spend a small fortune to get in the air, and that keeps off many a amateur.

With simple things, even homebrewed,a little imagination and operating practice you can enjoy this hobby just as much as everyone else with a bigger pocket.

Let us close the discussion,
73, Wim PA0PGA

--- In TS-520_820_530_830@yahoogroups.com, Adam Wade <espresso_doppio@...> wrote:
>
>
> From: Wim Penders <wpenders@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, March 2, 2009 1:29:40 PM
> Subject: [TS-520_820_530_830] Re: Heil Microphones
>
> > A little processing will do the rest.
> Which is free? Included with the $1 mic that didn't actually come with the case, button and power supply?
>
> > Why do you think the handy manufacturers all use electrets for years,
> > only because they are cheap and have excellent voice quality.
> They certainly can, but keep in mind that most mobile mics from Icom, Kewnood, etc. cost as much as my studio condenser did retail, and they are, as you noted, an electret element, with a case, connector, PTT button, etc. Are they "ripoffs"? To some people, just not having to source the components and assemble them into a reliable compact unit is worth the difference in price, assuming you can source the connectors and a long-life PTT switch (and that's not always cheap or easy to do, as I'm sure you know).
>
> > For your remark: Aside from the fact that none of the Kenwood hybrids
> > came with a "$1 condenser microphone". ..
> > the answer is that they have, but only make a nice profit on it.

> Which of the Kenwood hybrids came with an electret or condenser
microphone as stock?
> > Of course you mileage will vary, as is your good right to do, but it
> > is not the only way.
>
> Never said it was. But I didn't say you were stupid for using
something besides what I was using; you did say I was stupid for not
using what you were using.
> ! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
> ! "I write down everything I want to remember. That way, instead !
> ! of spending a lot of time trying to remember what it is I wrote !
> ! down, I spend z time looking for the paper I wrote it down on." !
> ! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !
>

20428. Re: [TS-520_820_530_830] Re: Heil Microphones

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-02 22:38:04 UTC
From: Adam Wade
Topic: 20375 Message: 20428

From: Wim Penders <wpenders@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, March 2, 2009 2:10:04 PM
Subject: [TS-520_820_530_830] Re: Heil Microphones
> I never intended to put someone down, my apologies.
> English is not my first language, so a mistaken word can happen and I
> am known for erratical use of your language.
And my apologies for misunderstanding.
> I just wanted to encourage people that have not much money to spend
> for their hobby, to use simpler things with good results.
We are on the same page. As mentioned, I could have home-brewed the compressor/noise gate and equalizer and used a less expensive mic and gotten the same results for less than I spent (under $700 if I am remembering correctly); in turn, I spent half as much as most hams spend when going the route of getting that effect with commercially-available gear. In fact, I was originally encouraging hams to look at less costly alternatives to the Heil mics, as there are other brand mics that are functionally equivalent (with warranty, readily commercially available) for notably less. A home-brewed mic is not likely to be as easily able to fill all the roles an XLR-based professional mic could, but indeed, for a lot of amateur use, you could spend less than I did and get similar results (although I will say that knowing what to avoid tends to become more important as you spend less and move from commercially available finished products toward components to build your own).
> Sometimes it seems that you have to spend a small fortune to get in
> the air, and that keeps off many a amateur.
Absolutely agreed. That's one of the reasons I really like the Kenwood hybrids (and Kenwood in general); they are quality rigs with quality construction and features, and the hybrids will let hams get on the air with HF for a whole lot less than newer solid state rigs of far lesser quality of features and construction. And even though it's not anywhere near as cheap and easy to build, say, a tube power amplifier for Amateur HF as it was years ago, there is a lot that can be done with home-brewing for a very reasonable price -- and modern electronics open up a lot of inexpensive new possibilities. I read a recent article where, with a few junk box parts, someone built an 80m CW QRP transmitter out of the parts from a burned-out compact fluorescent lightbulb! And there is the Arduino microcontroller that is now cheap and facilitates all sort of projects...
I was very fortunate in that I recently was able to buy my 600W PA, my audio gear, and a Ten-Tec Orion. Before that, everything I did was on a very small budget (I am disabled and live in disability income), and a lot of my gear was borrowed, or very old, and a lot was cobbled together from what I could find. My antennas were almost all home-brewed. And I still love learning, and being able to take pride in building things myself, even from kits -- like my noise bridge (Ten-Tec), the RF preamp I use for my VHF/UHF scanner (Ten-Tec), and my capacitance/inductance meter (Almost All Digital Electronics). I even built the digital display for my TS-520S from the Almost All Digital Electronics kit, saving me a lot of money over finding and buying a DG-5, and it can be used as a regular frequency counter too. :)

> With simple things, even homebrewed,a little imagination and operating
> practice you can enjoy this hobby just as much as everyone else with a
> bigger pocket.

Agreed. And again, sorry I misunderstood your posting.
Best 73, and hope to work you when the sunspots come back. :)
! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
! "I write down everything I want to remember. That way, instead !
! of spending a lot of time trying to remember what it is I wrote !
! down, I spend z time looking for the paper I wrote it down on." !
! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !

20429. TS830M HV and Ip

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-03 10:40:55 UTC
From: kenquad
Topic: 20429 Message: 20429

I have a TS830M which I purchased from ebay about a year ago. When I received the rig I sent it off to Castle Electronice (a very well known electronic repair shop in UK) for a complete check over, and I requested their views on the overall condition of the radio.
The radio was realigned and a few resistors replaced. They described the radio as a "Keeper" and said that the WARC bands had never been activated, the diodes were still intact.
I have been using the radio this past year and have always wondered about the HV and Ip readings on the meter. The HV is reading 970 volts, dropping to just under 900 volts on transmit. The Ip reads 300mV, this is in the CW position when tuning up. Are these meter readings too high. I would have thought the Ip reading certainly is ?.
The radio is working Very well on both TX and RX, and tuning up the radio is very smoothe, no erratic or sudden changes in meter readings. Could it be possible the meter is not giving accurate readings ?.

20430. Re: [TS-520_820_530_830] TS830M HV and Ip

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-03 11:29:51 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20429 Message: 20430

On Tue, 2009-03-03 at 10:40 +0000, kenquad wrote:

> I have been using the radio this past year and have always wondered
> about the HV and Ip readings on the meter. The HV is reading 970 volts,
> dropping to just under 900 volts on transmit. The Ip reads 300mV, this
> is in the CW position when tuning up. Are these meter readings too high.
> I would have thought the Ip reading certainly is ?.

Yes, definitely. On my TS-520 and a friend's TS-830, HT is somewhere between about 800V and 850V normally, and no more than 200mA anode current.

> The radio is working Very well on both TX and RX, and tuning up the
> radio is very smoothe, no erratic or sudden changes in meter readings.
> Could it be possible the meter is not giving accurate readings ?.

You can look at the service manual to see where these measurements are taken. The anode current is measured by reading the voltage across the four 20 ohm cathode resistors in the final. If one of those has gone open, then you'll see an excessive PA current. Normally you want to see 200mA across 5 ohms, but if one resistor has failed that would be across about 6.6 ohms giving a reading about 1/3 higher. With the radio off, measure the resistance from the cathode of one of the PA valves to ground. Is it 5 ohms?

Usual poking about with high voltages precautions apply.

Gordon

20431. TS-520SE alignment

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-03 08:35:27 UTC
From: sv0xbq
Topic: 20431 Message: 20431

Hi,
I've got a 520se that I'm trying to set up but I'm having problems aligning the bands. The 1.8 slugs have no effect on the test signal strength. I've cleaned the switches and everything looks clean and OK. Any advice would be much appreciated.

Chris

20432. Re: [TS-520_820_530_830] TS830M HV and Ip

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-03 11:17:58 UTC
From: Aron
Topic: 20429 Message: 20432

You mean Ip=300mA, I presume; Not mV.

Check the values and condition (burnt/open) of Cathode resistors: R2, R3, R4, R5.

Also, check the values of divider network R6 and R10.

All these resistors are in the Final stage and any change in their values will reflect an error in the 'Plate Current' meter reading.

Cheers,
/A

--- On Tue, 3/3/09, kenquad <kenquad@...> wrote:

> From: kenquad <kenquad@...>
> Subject: [TS-520_820_530_830] TS830M HV and Ip
> To: TS-520_820_530_830@yahoogroups.com
> Received: Tuesday, March 3, 2009, 10:40 AM
> I have a TS830M which I purchased from ebay about a year
> ago. When I
> received the rig I sent it off to Castle Electronice (a
> very well
> known electronic repair shop in UK) for a complete check
> over, and I
> requested their views on the overall condition of the
> radio.
> The radio was realigned and a few resistors replaced. They
> described
> the radio as a "Keeper" and said that the WARC
> bands had never
> been activated, the diodes were still intact.
> I have been using the radio this past year and have always
> wondered
> about the HV and Ip readings on the meter. The HV is
> reading 970 volts,
> dropping to just under 900 volts on transmit. The Ip reads
> 300mV, this
> is in the CW position when tuning up. Are these meter
> readings too high.
> I would have thought the Ip reading certainly is ?.
> The radio is working Very well on both TX and RX, and
> tuning up the
> radio is very smoothe, no erratic or sudden changes in
> meter readings.
> Could it be possible the meter is not giving accurate
> readings ?.

>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

Instant Messaging, free SMS, sharing photos and more... Try the new Yahoo! Canada Messenger
at http://ca.beta.messenger.yahoo.com/

20433. Re: G5RV Or Windom with a TS830?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-03 13:29:30 UTC
From: Chris Wyatt
Topic: 20373 Message: 20433

I use a G5RV hung about 35 feet high in an inverted V and have had
great coverage on the 80-10 meter bands with a MFJ 941E tuner of
course. I got it before I researched the Windoms though, and now I
wish I had bought the 160 meter Windom special by RadioWorks. I had to
run a seperate 1/4 inverted L for 160. I hear the Windoms do better
than the G5RV's, but like I said my G5RV does a great job barefoot
with my TS-520S.
Chris KG4AZN
--- In TS-520_820_530_830@yahoogroups.com, "waterfield55"
<waterfield55@...> wrote:
>
> Being that I will soon be the proud owner of a TS830, I am wondering
> what everyone is using for a Dipole style antenna. Putting up a
> vertical will NOT happen at my QTH. I have plenty of room for a full
> size 80M dipole. The feed point may end up in the middle of the yard
> so some coax burying is in my future. I am torn between a G5RV style
> and a windom. I do not have a antenna tuner as of yet, but that is
> next on the list. I have heard mixed reviews of the ability of
either
> one to tune some of the bands with out a tuner. But soon as you read
> the good you read the bad. I know that what works good at your
> location, may not work at all at mine.
>
> Bob
> KD8HZC
>

20434. Re: [TS-520_820_530_830] Is there a problem burying coax with other conductors?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-03 01:43:36 UTC
From: ted
Topic: 20405 Message: 20434

Hi Brent
I would run every thing you mentioned except the ground wire .
Depending on how far away it is I would not run that as it could conduct
or radiate. Grounds in my book are short and the heaviest cable possible .
I run a 6 gauge cable from a ground buss mounted on the back of the
shack desk straight threw the floor and out to the underside of the
lower eve on my home {bi level two eves in front} then that goes to
three ground rods that are separated in a nine foot triangular formation
all connections are brazed together and buried under the soil at a inch
or so just to be safe while cutting the grass. So all that is seen is
the ground wire as it runs down the front facade to the first nine foot
ground rod. If I was doing what you are planning I would ground the
shack equipment this way and bond the tower by itself no long
connection in between the two.
just my two cents worth
73 es n3zrx
ted

BRENT BAUM wrote:
>
>
> I don't see any problems. Its all shielded, except the ground wire.
> Some will recommend running the ground wire bare in the soil to reduce
> induced currents in the other cables and to "bleed off" any charge
> developing along its length. Of course the shields on the other cables
> will require proper grounding as well. There are a couple of other
> groups who talk towers and grounding fairly extensively who may have
> better answers. Check out "Tower Talk" for one.
>
> 73, K7MEI Brent
>
>
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> From: imtlog@... <mailto:imtlog%40gmail.com>
> Date: Mon, 2 Mar 2009 19:03:50 +0000
> Subject: [TS-520_820_530_830] Is there a problem burying coax with
> other conductors?
>
> I have 90' of 1½" pvc buried from my shack to the base of my tower.
> In this conduit I have only one run of 'buryflex' coax for my current HF
> antenna. Now I want to run other stuff out to the tower area and am
> wondering if it is ok to put all the conductors into the same buried
> pvc together. Here's what I plan on putting into the pvc:

>
> - another run of 'buryflex'. One each for the two HF antennas that
> will be on the tower, totaling 2 'buryflex' cables in the pvc.
> - one cat-5 cable for my WISP antenna (internet connection)
> - one 8 conductor control cable for the HAM-4 rotator
> - one RG-11 coax for a UHF TV antenna
> - one single conductor #12 TW solid copper to be used from tower
> ground rods to the shack's radio ground rods to ensure the same potential
>
> These 6 conductors will easily fit into the conduit, but is there
> going to be a problem with this arrangement?
>
> - Larry - NX3G
>
> [Non-text portions of this message have been removed]
>
>
> ---
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.0.237 / Virus Database: 270.11.5/1979 - Release Date: 03/01/09 17:46:00
>
>

No virus found in this outgoing message.
Checked by AVG - www.avg.com
Version: 8.0.237 / Virus Database: 270.11.5/1979 - Release Date: 03/01/09 17:46:00

[Non-text portions of this message have been removed]

20435. Turner CS-1 wired for a Kenwood TS-830S?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-03 00:30:56 UTC
From: kd6rhr
Topic: 20435 Message: 20435

Anyone have information on the wiring diagram for the CS-1 to a TS-830S?
And do they work compatibly together?
Thanks for any input you all might have!

73 Steven kd6rhr

20436. Re: [TS-520_820_530_830] Turner CS-1 wired for a Kenwood TS-830S?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-03 21:25:51 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20435 Message: 20436

On Tue, 2009-03-03 at 00:30 +0000, kd6rhr wrote:
> Anyone have information on the wiring diagram for the CS-1 to a TS-830S?
> And do they work compatibly together?
> Thanks for any input you all might have!

Don't see why it wouldn't work. Be careful with that gain control, it probably puts out a fairly hot signal.

There are only four pins in the mike connector. Two of them are ground, one is PTT and one is audio. It's not exactly rocket science to figure it out ;-)

Gordon

20437. Re: WTB: Clean, fully working TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-04 03:19:37 UTC
From: Kevin Rea
Topic: 20352 Message: 20437

go on ebay.
there are always some there for sale.

Kevin
K6REA

20438. Re: [TS-520_820_530_830] TS830M HV and Ip

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-05 22:40:22 UTC
From: MARC McINTYRE
Topic: 20429 Message: 20438

Hi Gordon,

Many thanks for reply to my post re HV and Ip problem in my TS830M.
I will do the checks you suggested and hope it solves the problem.

Marc.

From: Gordon JC Pearce MM3YEQ <gordon@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, 3 March, 2009 11:29:51
Subject: Re: [TS-520_820_530_830] TS830M HV and Ip

On Tue, 2009-03-03 at 10:40 +0000, kenquad wrote:

> I have been using the radio this past year and have always wondered
> about the HV and Ip readings on the meter. The HV is reading 970 volts,
> dropping to just under 900 volts on transmit. The Ip reads 300mV, this
> is in the CW position when tuning up. Are these meter readings too high.
> I would have thought the Ip reading certainly is ?.

Yes, definitely. On my TS-520 and a friend's TS-830, HT is somewhere
between about 800V and 850V normally, and no more than 200mA anode
current.

> The radio is working Very well on both TX and RX, and tuning up the
> radio is very smoothe, no erratic or sudden changes in meter readings.
> Could it be possible the meter is not giving accurate readings ?.

You can look at the service manual to see where these measurements are
taken. The anode current is measured by reading the voltage across the
four 20 ohm cathode resistors in the final. If one of those has gone
open, then you'll see an excessive PA current. Normally you want to see
200mA across 5 ohms, but if one resistor has failed that would be across
about 6.6 ohms giving a reading about 1/3 higher. With the radio off,
measure the resistance from the cathode of one of the PA valves to
ground. Is it 5 ohms?

Usual poking about with high voltages precautions apply.

Gordon

[Non-text portions of this message have been removed]

20439. Fw: [TS-440] Warning fake TS-530 listing on Ebay

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-06 03:26:01 UTC
From: Ruben Echevarria
Topic: 20439 Message: 20439

In case you guys aren't aware.
 Ruben Echevarria KA2HHB
SKCC #2132 EPC#3390 070 Club#861
10-10 International Club #33308
30Meter Digital Group #1148

----- Forwarded Message ----
From: Grant Hopper <ghopper@...>
To: TS-440@yahoogroups.com
Sent: Thursday, March 5, 2009 7:19:46 PM
Subject: RE: [TS-440] Warning fake TS-530 listing on Ebay

John,

That is the laziest ebay crook I have EVER seen. He cut and pasted the
entire text and added two sentences at the end! He seems to have other
stuff for sale, so if I had to guess, the buyer isn't going to get a nice
looking TS-530, but if they are lucky, it might turn on.... I guess that's
better than getting a box with bricks in it.

73,
Grant
KB7WSD

-----Original Message-----
From: TS-440@yahoogroups. com [mailto:TS-440@yahoogroups. com]On Behalf Of
John - AI4FR
Sent: Thursday, March 05, 2009 11:55 AM
To: TS-440@yahoogroups. com
Subject: [TS-440] Warning fake TS-530 listing on Ebay

Folks,
The Ebay listing below has been stolen from my web site. The item that the
seller has listed is sitting in my shack and is not for sale. This seller
has stolen my description, and pictures and listed it at an Ebay auction as
his own. I do not know this seller and in no way gave him permission to do
what he did. The winner of the auction will not receive the radio listed.
Ebay has been contacted. If you know the winner of this auction please pass
along this information to them.

Ebay item number 170306682432

http://cgi.ebay. com/KENWOOD- TS-530S_W0QQitem Z170306682432QQc mdZViewItemQQs
sPageNameZRSS: B:SRCH:US: 101

Thanks
John

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

20440. TS-820 RF Processor

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-06 05:09:48 UTC
From: jsloss
Topic: 3720 Message: 20440

What is the correct 455 KHz oscillator frequency. The manual says to set TC-4 for 451.3 while others have suggested 453.5.

Any additional hints for the alignment of the processor will be appreciated.

Thanks,

Joe k7mks

[Non-text portions of this message have been removed]

20441. Re: TS830M HV and Ip

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-06 18:38:41 UTC
From: w5rkl
Topic: 20429 Message: 20441

Marc,

The IP meter reads current in "milliamps" (ma) not "millivolts" (mv).

The TS-830 is rated at 180 watt DC input in CW and 220 watt PEP input on sideband.

The normal standby (receive mode) HV to the final tubes is 950VDC (949VDC per schematic) and 800VD (798VDC per schematic) at normal full input power in CW mode. These voltages can vary, up or down, depending on your local house line voltage.

If your 830 shows 300ma in CW mode after tuning, you have mistuned/improperly tuned the 830. 300ma is way too high of IP current for the 830 or any of the hybrid.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, MARC McINTYRE <kenquad@...> wrote:
>
> Hi Gordon,
>
> Many thanks for reply to my post re HV and Ip problem in my TS830M.
> I will do the checks you suggested and hope it solves the problem.
>
> Marc.
>
>
>
>
> _____
> From: Gordon JC Pearce MM3YEQ <gordon@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, 3 March, 2009 11:29:51
> Subject: Re: [TS-520_820_530_830] TS830M HV and Ip
>
>
> On Tue, 2009-03-03 at 10:40 +0000, kenquad wrote:
>
> > I have been using the radio this past year and have always wondered
> > about the HV and Ip readings on the meter. The HV is reading 970 volts,
> > dropping to just under 900 volts on transmit. The Ip reads 300mV, this
> > is in the CW position when tuning up. Are these meter readings too high.
> > I would have thought the Ip reading certainly is ?.
>
> Yes, definitely. On my TS-520 and a friend's TS-830, HT is somewhere
> between about 800V and 850V normally, and no more than 200mA anode

> current.
>
> > The radio is working Very well on both TX and RX, and tuning up the
> > radio is very smoothe, no erratic or sudden changes in meter readings.
> > Could it be possible the meter is not giving accurate readings ?.
>
> You can look at the service manual to see where these measurements are
> taken. The anode current is measured by reading the voltage across the
> four 20 ohm cathode resistors in the final. If one of those has gone
> open, then you'll see an excessive PA current. Normally you want to see
> 200mA across 5 ohms, but if one resistor has failed that would be across
> about 6.6 ohms giving a reading about 1/3 higher. With the radio off,
> measure the resistance from the cathode of one of the PA valves to
> ground. Is it 5 ohms?
>
> Usual poking about with high voltages precautions apply.
>
> Gordon
>
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

20442. Re: [TS-520_820_530_830] Re: TS830M HV and Ip

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-07 02:52:48 UTC
From: Bill Linn
Topic: 20429 Message: 20442

Go here for reliable tune-up instructions: http://www.k4eaa.com/tune-up.htm

On Fri, Mar 6, 2009 at 10:38 AM, w5rkl <w5rkl@...> wrote:

> Marc,
>
> The IP meter reads current in "milliamps" (ma) not "millivolts" (mv).
>
> The TS-830 is rated at 180 watt DC input in CW and 220 watt PEP input on
> sideband.
>
> The normal standby (receive mode) HV to the final tubes is 950VDC (949VDC
> per schematic) and 800VD (798VDC per schematic) at normal full input power
> in CW mode. These voltages can vary, up or down, depending on your local
> house line voltage.
>
> If your 830 shows 300ma in CW mode after tuning, you have
> mistuned/improperly tuned the 830. 300ma is way too high of IP current for
> the 830 or any of the hybrid.
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> MARC McINTYRE <kenquad@...> wrote:
> >
> > Hi Gordon,
> >
> > Many thanks for reply to my post re HV and Ip problem in my TS830M.
> > I will do the checks you suggested and hope it solves the problem.
> >
> > Marc.
> >
> >
> >
> >
> >
> > _____
> > From: Gordon JC Pearce MM3YEQ <gordon@...>
> > To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> > Sent: Tuesday, 3 March, 2009 11:29:51
> > Subject: Re: [TS-520_820_530_830] TS830M HV and Ip
> >
> >
> > On Tue, 2009-03-03 at 10:40 +0000, kenquad wrote:

> >
> > > I have been using the radio this past year and have always wondered
> > > about the HV and Ip readings on the meter. The HV is reading 970 volts,
> > > dropping to just under 900 volts on transmit. The Ip reads 300mV, this
> > > is in the CW position when tuning up. Are these meter readings too
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> > > I would have thought the Ip reading certainly is ?.
> >
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> > between about 800V and 850V normally, and no more than 200mA anode
> > current.
> >
> > > The radio is working Very well on both TX and RX, and tuning up the
> > > radio is very smoothe, no erratic or sudden changes in meter readings.
> > > Could it be possible the meter is not giving accurate readings ?.
> >
> > You can look at the service manual to see where these measurements are
> > taken. The anode current is measured by reading the voltage across the
> > four 20 ohm cathode resistors in the final. If one of those has gone
> > open, then you'll see an excessive PA current. Normally you want to see
> > 200mA across 5 ohms, but if one resistor has failed that would be across
> > about 6.6 ohms giving a reading about 1/3 higher. With the radio off,
> > measure the resistance from the cathode of one of the PA valves to
> > ground. Is it 5 ohms?
> >
> > Usual poking about with high voltages precautions apply.
> >
> > Gordon
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> > [Non-text portions of this message have been removed]
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20443. Power supply Capacitors

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-07 05:24:14 UTC
From: Michael
Topic: 20443 Message: 20443

I'm getting ready to change the big Power supply Capacitors in my ts-520s. How do you get them spring's off that hold the wire's on. I'm also going to change some resistors but them spring's that hold the component's on. I can't get them off.

Thanks
ki0gv
Mike

20444. Re: [TS-520_820_530_830] Power supply Capacitors

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-07 05:57:48 UTC
From: Michael
Topic: 20443 Message: 20444

I should say the little spring looking things that hold the wire onto the component's. The power supply capacitor's has little bump's on the bottom of the capacitor's that look's like they have little crack's in them. Just one little bump on each one? Maybe getting ready to go out?

--- On Fri, 3/6/09, Michael <ki0gv@...> wrote:

From: Michael <ki0gv@yahoo.com>
Subject: [TS-520_820_530_830] Power supply Capacitors
To: TS-520_820_530_830@yahoogroups.com
Date: Friday, March 6, 2009, 11:24 PM

I'm getting ready to change the big Power supply Capacitors in my ts-520s. How do you get them spring's off that hold the wire's on. I'm also going to change some resistors but them spring's that hold the component's on. I can't get them off.

Thanks
ki0gv
Mike

[Non-text portions of this message have been removed]

20445. Re: Power supply Capacitors

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-07 05:56:49 UTC
From: sv0xbq
Topic: 20443 Message: 20445

Hi Mike,

I think that the springs that you talk about are the lead connections that are wire wraped. It's soft wire so just tease out the end at the top enough to get some thin nosed pliers on it and it easily unwraps. You'll then need a wire wrapping tool to put them back if you want it original. I'm sure someone will shout at me for this but I don't wrap I solder the new connection.
Chris
SV0XBQ

--- In TS-520_820_530_830@yahoogroups.com, "Michael" <ki0gv@...> wrote:
>
> I'm getting ready to change the big Power supply Capacitors in my ts-520s. How do you get them spring's off that hold the wire's on. I'm also going to change some resistors but them spring's that hold the component's on. I can't get them off.
>
>
> Thanks
> ki0gv
> Mike
>

20446. Re: Power supply Capacitors

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-07 06:08:34 UTC
From: sv0xbq
Topic: 20443 Message: 20446

--- In TS-520_820_530_830@yahoogroups.com, "Michael" <ki0gv@...> wrote:
>
> I'm getting ready to change the big Power supply Capacitors in my ts-520s. How do you get them spring's off that hold the wire's on. I'm also going to change some resistors but them spring's that hold the component's on. I can't get them off.
>
>
> Thanks
> ki0gv
> Mike
>

Hi Mike,
I think that the springs you talk of are the wire wrapped lead connections. It's soft wire so just tease out a bit of the wire with a small screwdriver and unwrap it with a pair of thin nose pliers. You'll need a wire wrapping tool if you want them back the same. I'm sure someone will shout at me for this but I solder mine back.
Don't forget to ground everything to chassis before you start.
Chris

20447. Re: [TS-520_820_530_830] TS830M HV and Ip

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-07 09:40:02 UTC
From: MARC McINTYRE
Topic: 20429 Message: 20447

Hi Aron,
Sorry the 300mV has been a typing error, I did'nt notice that before I posted the message.
I will carry out the checks you suggested. Getting the time is the problem.

Thanks for all the info.

Marc.

From: Aron <va3uma@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, 3 March, 2009 11:17:58
Subject: Re: [TS-520_820_530_830] TS830M HV and Ip

You mean Ip=300mA, I presume; Not mV.

Check the values and condition (burnt/open) of Cathode resistors: R2, R3, R4, R5.

Also, check the values of divider network R6 and R10.

All these resistors are in the Final stage and any change in their values will reflect an error in the 'Plate Current' meter reading.

Cheers,
/A

--- On Tue, 3/3/09, kenquad <kenquad@yahoo. co.uk> wrote:

> From: kenquad <kenquad@yahoo. co.uk>
> Subject: [TS-520_820_ 530_830] TS830M HV and Ip
> To: TS-520_820_530_ 830@yahoogroups. com
> Received: Tuesday, March 3, 2009, 10:40 AM
> I have a TS830M which I purchased from ebay about a year
> ago. When I
> received the rig I sent it off to Castle Electronice (a
> very well
> known electronic repair shop in UK) for a complete check
> over, and I
> requested their views on the overall condition of the
> radio.
> The radio was realigned and a few resistors replaced. They
> described
> the radio as a "Keeper" and said that the WARC
> bands had never
> been activated, the diodes were still intact.
> I have been using the radio this past year and have always
> wondered

> about the HV and Ip readings on the meter. The HV is
> reading 970 volts,
> dropping to just under 900 volts on transmit. The Ip reads
> 300mV, this
> is in the CW position when tuning up. Are these meter
> readings too high.
> I would have thought the Ip reading certainly is ?.
> The radio is working Very well on both TX and RX, and
> tuning up the
> radio is very smoothe, no erratic or sudden changes in
> meter readings.
> Could it be possible the meter is not giving accurate
> readings ?.
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Instant Messaging, free SMS, sharing photos and more... Try the new Yahoo! Canada Messenger at http://ca.beta. messenger. yahoo.com/

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20448. Re: [TS-520_820_530_830] Re: TS830M HV and Ip

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-07 11:30:11 UTC
From: MARC McINTYRE
Topic: 20429 Message: 20448

Hi Mike,

Many thanks for reply.
Sorry I did not notice the typing error before I posted my message. I did mean 300mA NOT 300mV
(a senior moment Hi).
You were right Mike, I normally tuned up the my TS830M according to the "Tuneup Summary" at the
bottom of page 18 in the manual, which could be described as a quick version of tuning up.
After I read your reply I tuned up my radio LINE BY LINE in the manual and when I checked the Ip
it read 225mA. Obviously I was being extra careful as I was tuning up Line by Line from the manual.

Thanks again Mike.

Regards

Marc.

.

From: w5rkl <w5rkl@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, 6 March, 2009 18:38:41
Subject: [TS-520_820_530_830] Re: TS830M HV and Ip

Marc,

The IP meter reads current in "milliamps" (ma) not "millivolts" (mv).

The TS-830 is rated at 180 watt DC input in CW and 220 watt PEP input on sideband.

The normal standby (receive mode) HV to the final tubes is 950VDC (949VDC per schematic) and 800VD (798VDC per schematic) at normal full input power in CW mode. These voltages can vary, up or down, depending on your local house line voltage.

If your 830 shows 300ma in CW mode after tuning, you have mistuned/improperly tuned the 830. 300ma is way too high of IP current for the 830 or any of the hybrid.

73
Mike
W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, MARC McINTYRE <kenquad@... > wrote:
>
> Hi Gordon,

>
> Many thanks for reply to my post re HV and Ip problem in my TS830M.
> I will do the checks you suggested and hope it solves the problem.
>
> Marc.
>
>
>
>
> _____ _____ _____ __
> From: Gordon JC Pearce MM3YEQ <gordon@...>
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Tuesday, 3 March, 2009 11:29:51
> Subject: Re: [TS-520_820_ 530_830] TS830M HV and Ip
>
>
> On Tue, 2009-03-03 at 10:40 +0000, kenquad wrote:
>
> > I have been using the radio this past year and have always wondered
> > about the HV and Ip readings on the meter. The HV is reading 970 volts,
> > dropping to just under 900 volts on transmit. The Ip reads 300mV, this
> > is in the CW position when tuning up. Are these meter readings too high.
> > I would have thought the Ip reading certainly is ?.
>
> Yes, definitely. On my TS-520 and a friend's TS-830, HT is somewhere
> between about 800V and 850V normally, and no more than 200mA anode
> current.
>
> > The radio is working Very well on both TX and RX, and tuning up the
> > radio is very smoothe, no erratic or sudden changes in meter readings.
> > Could it be possible the meter is not giving accurate readings ?.
>
> You can look at the service manual to see where these measurements are
> taken. The anode current is measured by reading the voltage across the
> four 20 ohm cathode resistors in the final. If one of those has gone
> open, then you'll see an excessive PA current. Normally you want to see
> 200mA across 5 ohms, but if one resistor has failed that would be across
> about 6.6 ohms giving a reading about 1/3 higher. With the radio off,
> measure the resistance from the cathode of one of the PA valves to
> ground. Is it 5 ohms?
>
> Usual poking about with high voltages precautions apply.
>
> Gordon
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20449. Re: TS830M HV and Ip

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-07 12:01:31 UTC
From: w5rkl
Topic: 20429 Message: 20449

Hi Marc,

No problem, as seniors we do that every now and then and I'm no
stranger to having "senior moments" :).

If your IP meter displays 225ma and the HV is 800VDC at full output
on CW then your 830 is operating the way it is suppose to.

In sideband, while talking into the microphone and MIC gain set to 9 or 10 o'clock, no
processing, you will achieve the normal PEP input.
If your watt meter is not a peak reading meter, don't be alarmed if
the most you see is between 25 and 35 watts, 50 at most. That's
typical for average power watt meters.

It appears your 830 is working properly so have fun and enjoy your
830.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, MARC McINTYRE <kenquad@...> wrote:
>
> Hi Mike,
>
> Many thanks for reply.
> Sorry I did not notice the typing error before I posted my message. I did mean 300mA NOT
300mV
> (a senior moment Hi).
> You were right Mike, I normally tuned up the my TS830M according to the "Tuneup Summary"
at the
> bottom of page 18 in the manual, which could be described as a quick version of tuning
up.
> After I read your reply I tuned up my radio LINE BY LINE in the manual and when I checked
the Ip
> it read 225mA. Obviously I was being extra careful as I was tuning up Line by Line from
the manual.
>
> Thanks again Mike.
>
> Regards
>
> Marc.
>
> .
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> _____
> From: w5rkl <w5rkl@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, 6 March, 2009 18:38:41
> Subject: [TS-520_820_530_830] Re: TS830M HV and Ip
>
>
> Marc,
>
> The IP meter reads current in "milliamps" (ma) not "millivolts" (mv).
>
> The TS-830 is rated at 180 watt DC input in CW and 220 watt PEP input on sideband.
>
> The normal standby (receive mode) HV to the final tubes is 950VDC (949VDC per schematic) and 800VD (798VDC per schematic) at normal full input power in CW mode. These voltages can vary, up or down, depending on your local house line voltage.
>
> If your 830 shows 300ma in CW mode after tuning, you have mistuned/improperly tuned the 830. 300ma is way too high of IP current for the 830 or any of the hybrid.
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com, MARC McINTYRE <kenquad@ > wrote:
> >
> > Hi Gordon,
> >
> > Many thanks for reply to my post re HV and Ip problem in my TS830M.
> > I will do the checks you suggested and hope it solves the problem.
> >
> > Marc.
> >
> >
> >
> >
> > _____ _____ _____ __
> > From: Gordon JC Pearce MM3YEQ <gordon@>
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Sent: Tuesday, 3 March, 2009 11:29:51
> > Subject: Re: [TS-520_820_ 530_830] TS830M HV and Ip
> >
> >
> > On Tue, 2009-03-03 at 10:40 +0000, kenquad wrote:
> >
> > > I have been using the radio this past year and have always wondered
> > > about the HV and Ip readings on the meter. The HV is reading 970 volts,

> > > dropping to just under 900 volts on transmit. The Ip reads 300mV, this
> > > is in the CW position when tuning up. Are these meter readings too high.
> > > I would have thought the Ip reading certainly is ?.
> >
> > Yes, definitely. On my TS-520 and a friend's TS-830, HT is somewhere
> > between about 800V and 850V normally, and no more than 200mA anode
> > current.
> >
> > > The radio is working Very well on both TX and RX, and tuning up the
> > > radio is very smoothe, no erratic or sudden changes in meter readings.
> > > Could it be possible the meter is not giving accurate readings ?.
> >
> > You can look at the service manual to see where these measurements are
> > taken. The anode current is measured by reading the voltage across the
> > four 20 ohm cathode resistors in the final. If one of those has gone
> > open, then you'll see an excessive PA current. Normally you want to see
> > 200mA across 5 ohms, but if one resistor has failed that would be across
> > about 6.6 ohms giving a reading about 1/3 higher. With the radio off,
> > measure the resistance from the cathode of one of the PA valves to
> > ground. Is it 5 ohms?
> >
> > Usual poking about with high voltages precautions apply.
> >
> > Gordon
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20450. Re: [TS-520_820_530_830] Re: TS830M HV and Ip

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-07 12:12:04 UTC
From: Gordon JC Pearce
Topic: 20429 Message: 20450

MARC McINTYRE wrote:
> Hi Mike,
>
> Many thanks for reply.
> Sorry I did not notice the typing error before I posted my message. I did mean 300mA NOT 300mV
> (a senior moment Hi).
> You were right Mike, I normally tuned up the my TS830M according to the "Tuneup Summary" at the
> bottom of page 18 in the manual, which could be described as a quick version of tuning up.
> After I read your reply I tuned up my radio LINE BY LINE in the manual and when I checked the Ip
> it read 225mA. Obviously I was being extra careful as I was tuning up Line by Line from the manual.

225mA sounds about right. Every radio will be a bit different ;-)

Gordon

20451. TS-830 Heater Switch.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-07 14:02:24 UTC
From: waterfield55
Topic: 20451 Message: 20451

Before I make a mess of things. If I am understanding correctly, if the heater switch is OFF, the transmitter will not function, but the receive will?
I do NOT have a proper antenna to transmit with yet, but I have rigged up a long wire for receive. (I put the mic in the drawer for now).

Bob
KD8HZC

20452. Re: [TS-520_820_530_830] TS-830 Heater Switch.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-07 14:33:42 UTC
From: Gary Meyer
Topic: 20451 Message: 20452

Bob
Thats correct the tubes are cold and will not transmit with the heater switch off. Enjoy listening.
KC0NPJ Gary
----- Original Message -----
From: waterfield55
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, March 07, 2009 8:02 AM
Subject: [TS-520_820_530_830] TS-830 Heater Switch.

Before I make a mess of things. If I am understanding correctly, if the heater switch is OFF, the transmitter will not function, but the receive will?
I do NOT have a proper antenna to transmit with yet, but I have rigged up a long wire for receive. (I put the mic in the drawer for now).

Bob
KD8HZC

[Non-text portions of this message have been removed]

20453. Re: [TS-520_820_530_830] Re: TS830M HV and Ip

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-07 14:44:59 UTC
From: MARC McINTYRE
Topic: 20429 Message: 20453

Hi again Mike,
It never rains but it pours. Now I have lost receive on my 830 and the transmitter does not tune up
as before. I tried tuning up on 40m but the Plate control always ends up in the 9 o'clock position
at the start of the 3.5 segment, if I tune up on 20m the Plate control is dipping at the 7m segment.
Any idea what could have hapened ?.

Marc.

_____
From: w5rkl <w5rkl@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, 7 March, 2009 12:01:31
Subject: [TS-520_820_530_830] Re: TS830M HV and Ip

Hi Marc,

No problem, as seniors we do that every now and then and I'm no
stranger to having "senior moments" :).

If your IP meter displays 225ma and the HV is 800VDC at full output
on CW then your 830 is operating the way it is suppose to.

In sideband, while talking into the microphone and MIC gain set to 9 or 10 o'clock, no processing, you will achieve the normal PEP input.
If your watt meter is not a peak reading meter, don't be alarmed if
the most you see is between 25 and 35 watts, 50 at most. That's
typical for average power watt meters.

It appears your 830 is working properly so have fun and enjoy your
830.

73
Mike
W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, MARC McINTYRE <kenquad@... > wrote:
>
> Hi Mike,
>
> Many thanks for reply.
> Sorry I did not notice the typing error before I posted my message. I did mean 300mA NOT 300mV
> (a senior moment Hi).
> You were right Mike, I normally tuned up the my TS830M according to the "Tuneup Summary"

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> Thanks again Mike.
>
> Regards
>
> Marc.
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> _____ _____ _____ __
> From: w5rkl <w5rkl@...>
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Friday, 6 March, 2009 18:38:41
> Subject: [TS-520_820_ 530_830] Re: TS830M HV and Ip
>
>
> Marc,
>
> The IP meter reads current in "milliamps" (ma) not "millivolts" (mv).
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> The TS-830 is rated at 180 watt DC input in CW and 220 watt PEP input on sideband.
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> The normal standby (receive mode) HV to the final tubes is 950VDC (949VDC per schematic) and 800VD (798VDC per schematic) at normal full input power in CW mode. These voltages can vary, up or down, depending on your local house line voltage.
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> If your 830 shows 300ma in CW mode after tuning, you have mistuned/improperly tuned the 830. 300ma is way too high of IP current for the 830 or any of the hybrid.
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com, MARC McINTYRE <kenquad@ > wrote:
> >
> > Hi Gordon,
> >
> > Many thanks for reply to my post re HV and Ip problem in my TS830M.
> > I will do the checks you suggested and hope it solves the problem.
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> > Marc.

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> > _____ _____ _____ __
> > From: Gordon JC Pearce MM3YEQ <gordon@>
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Sent: Tuesday, 3 March, 2009 11:29:51
> > Subject: Re: [TS-520_820_ 530_830] TS830M HV and Ip
> >
> >
> > On Tue, 2009-03-03 at 10:40 +0000, kenquad wrote:
> >
> > > I have been using the radio this past year and have always wondered
> > > about the HV and Ip readings on the meter. The HV is reading 970 volts,
> > > dropping to just under 900 volts on transmit. The Ip reads 300mV, this
> > > is in the CW position when tuning up. Are these meter readings too high.
> > > I would have thought the Ip reading certainly is ?.
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> > Yes, definitely. On my TS-520 and a friend's TS-830, HT is somewhere
> > between about 800V and 850V normally, and no more than 200mA anode
> > current.
> >
> > > The radio is working Very well on both TX and RX, and tuning up the
> > > radio is very smoothe, no erratic or sudden changes in meter readings.
> > > Could it be possible the meter is not giving accurate readings ?.
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> > You can look at the service manual to see where these measurements are
> > taken. The anode current is measured by reading the voltage across the
> > four 20 ohm cathode resistors in the final. If one of those has gone
> > open, then you'll see an excessive PA current. Normally you want to see
> > 200mA across 5 ohms, but if one resistor has failed that would be across
> > about 6.6 ohms giving a reading about 1/3 higher. With the radio off,
> > measure the resistance from the cathode of one of the PA valves to
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> > Usual poking about with high voltages precautions apply.
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> > Gordon
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20454. TS-520SE HT query

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-07 09:14:36 UTC
From: sv0xbq
Topic: 20454 Message: 20454

Hi everyone,

I'm chasing a low TX power problem on a TS-520SE. I can only put out around 80 watts cw on 20m. I had the driver tube out and after putting it back I got over 200 watts for one time only so I think I've got a dry joint or bad connection somewhere. I've just had a DVM on the HT and I get 900 volts off load and 780 volts keyed. Is this normal? Also where can I find the HV filter caps?

Thanks for any advice

Chris
SV0XBQ

20455. Ts830 vfo/display

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-07 17:29:41 UTC
From: budgiebob2005
Topic: 20455 Message: 20455

Whilst on receive /no heaters My set developed a s/c blew input fuse .after bringing up slowly with variac i was able to locate a h t s/c leak to ground chassis on the tag strip in pa which takes ht input cable and links to valve . During this time i lost all l t supplies ie no 12 volts dial bulbs etc . haveing removed sc by redressing suppy off tag strip I am now able to run at 250 volts tx not overheating BUT

Whilst i have display in 14 mcs band this does not change But frequency is ie i can tune and receive stations .Dispite which band position I select the read out remains on 20 meter {i can tunein signals on 40 meters still same read out .
All buttons checked and appear to work ok
As i have spare counter unit I substituted this JUST the same A quick check on voltages appear ok . It gives the impression it is locked out It was on 20 meters when it originally failed .all 20 meters sound ok s meter works etc . I wonder if some consequential damage was caused when set failed .sorry so long winded but these are the facts as i see thanks Bob G8ACQ

20457. Re: Ts830 vfo/display

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-07 18:53:27 UTC
From: Gordon
Topic: 20455 Message: 20457

Make sure the DH button is not pushed in to start with.

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "budgiebob2005" <budgiebob@...> wrote:
>
> Whilst on receive /no heaters My set developed a s/c blew input fuse .after bringing up slowly with variac i was able to locate a h t s/c leak to ground chassis on the tag strip in pa which takes ht input cable and links to valve . During this time i lost all l t supplies ie no 12 volts dial bulbs etc . haveing removed sc by redressing suppy off tag strip I am now able to run at 250 volts tx not overheating BUT
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> Whilst i have display in 14 mcs band this does not change But frequency is ie i can tune and receive stations .Dispite which band position I select the read out remains on 20 meter {i can tunein signals on 40 meters still same read out .
> All buttons checked and appear to work ok
> As i have spare counter unit I substituted this JUST the same A quick check on voltages appear ok . It gives the impression it is locked out It was on 20 meters when it originally failed .all 20 meters sound ok s meter works etc . I wonder if some consequential damage was caused when set failed .sorry so long winded but these are the facts as i see thanks Bob G8ACQ
>

20458. TS830M Problem with TX/RX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-07 19:25:41 UTC
From: kenquad
Topic: 20458 Message: 20458

My TS830M has a problem with TX and RX.
On receive I only hear stations very weak in the background.
I tried tuning up on 40m and everything seems fine while in the TUNE position. When I switch to the CW part of tuning up, as I increase the LOAD control the PLATE dip point moves anticlockwise until it reaches the 9 o'clock position, below the 3.5 marking on the Plate control, no where near the 40m segment. On 20m I get a similar result and probably on all other bands as well. While tuning, the Ip reading goes no higher than 150mA. There is an indication of Power Out on the 830 meter, but
no indication on my external power meter. The external power meter is
a Radiocraft 3000 Pro and is in working order. When I switch from Receive to Send I can hear the click of the relay. The bias is 60mA.
Any help would be appreciated.

Marc.

20459. Re: Ts830 vfo/display

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-07 19:56:42 UTC
From: budgiebob2005
Topic: 20455 Message: 20459

--REPLY Gordon 100% spot on I hang my head but many thanks BOB g8acq - In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Make sure the DH button is not pushed in to start with.
>
> Gordon
> N6WK
>
> --- In TS-520_820_530_830@yahoogroups.com, "budgiebob2005" <budgiebob@> wrote:
> >
> > Whilst on receive /no heaters My set developed a s/c blew input fuse .after bringing up slowly with variac i was able to locate a h t s/c leak to ground chassis on the tag strip in pa which takes ht input cable and links to valve . During this time i lost all l t supplies ie no 12 volts dial bulbs etc . haveing removed sc by redressing suppy off tag strip I am now able to run at 250 volts tx not overheating BUT
> >
> > Whilst i have display in 14 mcs band this does not change But frequency is ie i can tune and receive stations .Dispite which band position I select the read out remains on 20 meter {i can tunein signals on 40 meters still same read out .
> > All buttons checked and appear to work ok
> > As i have spare counter unit I substituted this JUST the same A quick check on voltages appear ok . It gives the impression it is locked out It was on 20 meters when it originally failed .all 20 meters sound ok s meter works etc . I wonder if some consequential damage was caused when set failed .sorry so long winded but these are the facts as i see thanks Bob G8ACQ
> >
>

20460. TS830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-08 05:50:21 UTC
From: Irena & Richard Jenkins
Topic: 20460 Message: 20460

My Ts830S is making growling noises ... which I think are the bearings in my fan. Any suggestions for s replacement item? I don't think a couple of oil drops are going to quieten this one!! Probably not repairable ... but what have people found is a good and quiet replacement?

Richard
VK1RJ
--
--
Linux on a Mac... delightful
Irena & Richard Jenkins
Canberra, AU
++

20461. Re: [TS-520_820_530_830] TS830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-08 06:33:36 UTC
From: Adrian Ellison
Topic: 20460 Message: 20461

Golly that's an interesting one, I'd never considered that fan ever packing up.

My first thought would be to repair rather than replace .. I'm not sure but I think those bearings are phosphor bronze. Your local appliance shop might have something suitable, or at least something you could modify to do the job.

You could rewire it for a 12v computer power supply type fan, and really anything would do, but personally I'd go for fixing the one you have there.

I sincerely hope it didn't start growling at you during a late night dx hunt, spooky when that happens :-)

Cheers and good luck,

Adrian / ZS1TTZ

On Sunday 08 March 2009 07:50:21 Irena & Richard Jenkins wrote:
> My Ts830S is making growling noises ... which I think are the bearings in
> my fan. Any suggestions for s replacement item? I don't think a couple of
> oil drops are going to quieten this one!! Probably not repairable ... but
> what have people found is a good and quiet replacement?
>
> Richard
> VK1RJ

20462. Re: [TS-520_820_530_830] TS830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-08 08:11:42 UTC
From: Ruben Echevarria
Topic: 20460 Message: 20462

I'd spray it with a good cleaner then lightly oil it.......
 Ruben Echevarria KA2HHB
SKCC #2132 EPC#3390 070 Club#861
10-10 International Club #33308
30Meter Digital Group #1148

From: Adrian Ellison <ellisona@...>
To: TS-520_820_530_830@...m
Sent: Sunday, March 8, 2009 1:33:36 AM
Subject: Re: [TS-520_820_530_830] TS830S

Golly that's an interesting one, I'd never considered that fan ever packing up.

My first thought would be to repair rather than replace .. I'm not sure but I think those bearings are phosphor bronze. Your local appliance shop might have something suitable, or at least something you could modify to do the job.

You could rewire it for a 12v computer power supply type fan, and really anything would do, but personally I'd go for fixing the one you have there.

I sincerely hope it didn't start growling at you during a late night dx hunt, spooky when that happens :-)

Cheers and good luck,

Adrian / ZS1TTZ

On Sunday 08 March 2009 07:50:21 Irena & Richard Jenkins wrote:
> My Ts830S is making growling noises ... which I think are the bearings in
> my fan. Any suggestions for s replacement item? I don't think a couple of
> oil drops are going to quieten this one!! Probably not repairable ... but
> what have people found is a good and quiet replacement?
>
> Richard
> VK1RJ

[Non-text portions of this message have been removed]

20463. Re: [TS-520_820_530_830] TS830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-08 08:21:41 UTC
From: Lou Blasco
Topic: 20460 Message: 20463

Hi Richard,

Original used replacement fans come up from time on ebay and VK ham,
I think that would be your best chance for a repair. I don't think
you'd be happy with non-genuine replacements unless you can get
something that runs really quiet. Not sure if you had a good look at
the fan yet but as others have indicated it's worth a try.

Good luck

Lou
VK3ALB

At 16:50 08/03/2009, you wrote:
>My Ts830S is making growling noises ... which I think are the bearings in my
>fan. Any suggestions for s replacement item? I don't think a couple of oil
>drops are going to quieten this one!! Probably not repairable ... but what
>have people found is a good and quiet replacement?
>
>Richard
>VK1RJ

20464. Re: [TS-520_820_530_830] TS830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-08 10:41:13 UTC
From: Gordon JC Pearce
Topic: 20460 Message: 20464

Irena & Richard Jenkins wrote:
> My Ts830S is making growling noises ... which I think are the bearings in my
> fan. Any suggestions for s replacement item? I don't think a couple of oil
> drops are going to quieten this one!! Probably not repairable ... but what
> have people found is a good and quiet replacement?
>
> Richard
> VK1RJ

Try giving the bearings a clean up and a drop of oil or very light
grease. It might be possible to get someone to make up new bushes out
of sintered bronze.

Gordon

20465. Re: TS830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-08 16:39:24 UTC
From: w5rkl
Topic: 20460 Message: 20465

My first suggestion would be to clean the fan and final amplifier using a small light brush and canned air. A vacuum cleaner can also be used to remove the dust as it is brush off of the final amplifier components. Canned air will remove any residual dust and is left.

Unplug the fan from the rear and remove the fan. Further clean any remaining dust then apply a light machine old to the fans bearings then rotate the fan blades by hand to allow the oil to get to the bearings. If the fan rotated freely, clean away any residual lubrication with a cloth and/or cotton swabs and reinstall the fan.

Use only enough lubrication to do the job. A small amount is all you will need. Do not use the liquid wrench "foaming" lubrication. Sewing machine lubrication oil works very well or the oil that comes with beard trimmers also works quite well.

While you have the fan on the bench, clean around the fan opening with a damp cloth, removing any remaining dust and dirt. Clean as much of the final components as well. Don't forget the tubes, clean them as well.

A coating of dust on components and tubes act as a "blanket", trapping heat "in" and not allowing the fan to do it's job.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Irena & Richard Jenkins <richard.jenkins@...> wrote:
>
> My Ts830S is making growling noises ... which I think are the bearings in my
> fan. Any suggestions for s replacement item? I don't think a couple of oil
> drops are going to quieten this one!! Probably not repairable ... but what
> have people found is a good and quiet replacement?
>
> Richard
> VK1RJ
> --
> --
> Linux on a Mac... delightful
> Irena & Richard Jenkins
> Canberra, AU
> ++
>

20466. Kenwood ST-1 Base Stand

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-08 22:48:09 UTC
From: satranger1@yahoo.com
Topic: 20466 Message: 20466

Does anybody have a user manual, schematic, specs or other usable info on the Kenwood ST-1. It is a desk stand for HT's. Working on a friends HT-215 and he is using a ST-1 with it. He got it used and doesn't have any documentation. It seems ok, but would like to find some documentation on it for referance. Looked thru my list of manual sites and can't find anything on it. Thanks in advance for anything you can provide.

Don T.

[Non-text portions of this message have been removed]

20467. Re: TS830M HV and Ip

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-08 23:51:51 UTC
From: Brian Hall
Topic: 20429 Message: 20467

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:

> If your 830 shows 300ma in CW mode after tuning, you have mistuned/improperly tuned the 830. 300ma is way too high of IP current for the 830 or any of the hybrid.

If your Ip is reading high after properly tuning your rig, it might be due to aging of the final cathode resistors. Ip reading is derived from the voltage drop across these resistors. As their resistance climbs, their voltage drop increases and indicated Ip will increase regardless of actual Ip.

Brian AC7NA

20468. Tuning slugs

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-09 01:22:16 UTC
From: sv0xbq
Topic: 20468 Message: 20468

Hi Everyone,

I've found some tuning slugs on the net that look like they would fit the antenna coils in a TS-520SE. They are at www.surplussales.com part number (ICH)SLUG-1. 0.155" x 0.315".

Has anyone tried these please?

Chris

20469. Hello from a new boy

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-08 17:42:09 UTC
From: Steve Cooke
Topic: 20469 Message: 20469

Hello All,
I've joined this group having recently bought a " one careful owner - never raced or rallied " TS 830 . The more I use it - the more I like it - and I can now appreciate why they are held in such high esteem .
It is still producing 100w on the original valves - and I look forward to many years of HF operating . I usually work /P on 10GHz - so this is going to be a completely new experience !

Just wanted to say hello

73 steve G1MPW

20470. Re: TS830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-08 06:37:53 UTC
From: sv0xbq
Topic: 20460 Message: 20470

Hi Richard,

There's a fan on UK Ebay if you search TS-520. £14.99 buy it now and he'll post to you for £5.00. He's sending other parts out for me to Crete.

Chris
SV0XBQ

--- In TS-520_820_530_830@yahoogroups.com, Irena & Richard Jenkins <richard.jenkins@...> wrote:
>
> My Ts830S is making growling noises ... which I think are the bearings in my
> fan. Any suggestions for s replacement item? I don't think a couple of oil
> drops are going to quieten this one!! Probably not repairable ... but what
> have people found is a good and quiet replacement?
>
> Richard
> VK1RJ
> --
> --
> Linux on a Mac... delightful
> Irena & Richard Jenkins
> Canberra, AU
> ++
>

20471. Re: Hello from a new boy

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-09 01:57:05 UTC
From: sv0xbq
Topic: 20469 Message: 20471

Hi Steve and Welcome,

I'm pretty new here myself. I "discovered" a TS-520SE a few weeks ago and I'm now enjoying trying to get it back to how it should be. It's put a lot more interest back into radio for me. A lot better than just pushing the buttons,

Chris
SV0XBQ M0GHX

--- In TS-520_820_530_830@yahoogroups.com, "Steve Cooke" <s.cooke375@...> wrote:
>
> Hello All,
> I've joined this group having recently bought a " one careful owner - never raced or rallied " TS 830 . The more I use it - the more I like it - and I can now appreciate why they are held in such high esteem .
> It is still producing 100w on the original valves - and I look forward to many years of HF operating . I usually work /P on 10GHz - so this is going to be a completely new experience !
>
> Just wanted to say hello
>
> 73 steve G1MPW
>

20472. Re: [TS-520_820_530_830] Re: TS830M HV and Ip

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-09 08:37:35 UTC
From: MARC McINTYRE
Topic: 20429 Message: 20472

Hi Biian,

Thanks for reply.
I have measured the resistance from pin 1 on the 6146b's to ground and it reads 5.5 volts and the resistors look good.
I was using a very reliable Avo 8 Mk5 Meter.

Marc.

From: Brian Hall <bnhall_2000@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, 8 March, 2009 23:51:51
Subject: [TS-520_820_530_830] Re: TS830M HV and Ip

--- In TS-520_820_530_ 830@yahoogroups. com, "w5rkl" <w5rkl@...> wrote:

> If your 830 shows 300ma in CW mode after tuning, you have mistuned/improperly tuned the 830. 300ma is way too high of IP current for the 830 or any of the hybrid.

If your Ip is reading high after properly tuning your rig, it might be due to aging of the final cathode resistors. Ip reading is derived from the voltage drop across these resistors. As their resistance climbs, their voltage drop increases and indicated Ip will increase regardless of actual Ip.

Brian AC7NA

[Non-text portions of this message have been removed]

20473. TS830M Problem with TX/RX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-09 08:52:23 UTC
From: kenquad
Topic: 20458 Message: 20473

Further to my previous post.
Could the problem be the antenna relay, as it is common
to both TX and RX,and I get no power out indication on my
external meter, but I do get an indication on the 830 meter,
(or would that be too easy).
I hope it is not L41 on RX.

Marc.

20474. TS830M Problem with TX/RX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-09 12:07:31 UTC
From: kenquad
Topic: 20458 Message: 20474

Hi All,

This problem has now been solved.
I removed the Antenna Relay and found a red wire burned
inside the relay cover. The wire was attached to pin 6
on the relay.

Marc.

20475. Re: [TS-520_820_530_830] Re: TS830M HV and Ip

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-09 14:35:53 UTC
From: Bill Scurlock
Topic: 20429 Message: 20475

Hi Marc.

At 5.5 ohms, your Ip reading will be about 10% high. i.e., for an actual 200 Ma of current through the tubes, your meter would indicate somewhere around 220 Ma. Lots of components and metering equipment are only in the 10% accuracy range, so this is not a situation to be seriously concerned about.

Most resistors increase in value over time, so you can just pay attention in the future if the meter indicates increased Ip for the same power output.

Have fun.

73, Bill, K5GCW
----- Original Message -----
From: MARC McINTYRE
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, March 09, 2009 3:37 AM
Subject: Re: [TS-520_820_530_830] Re: TS830M HV and Ip

Hi Biian,

Thanks for reply.
I have measured the resistance from pin 1 on the 6146b's to ground and it reads 5.5 volts and the resistors look good.
I was using a very reliable Avo 8 Mk5 Meter.

Marc.

From: Brian Hall <bnhall_2000@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, 8 March, 2009 23:51:51
Subject: [TS-520_820_530_830] Re: TS830M HV and Ip

--- In TS-520_820_530_ 830@yahoogroups. com, "w5rkl" <w5rkl@...> wrote:

> If your 830 shows 300ma in CW mode after tuning, you have mistuned/improperly tuned the 830. 300ma is way too high of IP current for the 830 or any of the hybrid.

If your Ip is reading high after properly tuning your rig, it might be due to aging of the final cathode resistors. Ip reading is derived from the voltage drop across these resistors. As their resistance climbs, their voltage drop increases and indicated Ip will increase regardless of actual Ip.

Brian AC7NA

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

20476. Re: [TS-520_820_530_830] Re: TS830M HV and Ip

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-09 15:42:20 UTC
From: MARC McINTYRE
Topic: 20429 Message: 20476

Hi Bill,

Thank you for the information. I did'nt think of the .5 Ohm making such a difference.
I will keep a close eye on the Ip.

Thanks again.

Marc.

From: Bill Scurlock <k5gcw@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, 9 March, 2009 14:35:53
Subject: Re: [TS-520_820_530_830] Re: TS830M HV and Ip

Hi Marc.

At 5.5 ohms, your Ip reading will be about 10% high. i.e., for an actual 200 Ma of current through the tubes, your meter would indicate somewhere around 220 Ma. Lots of components and metering equipment are only in the 10% accuracy range, so this is not a situation to be seriously concerned about.

Most resistors increase in value over time, so you can just pay attention in the future if the meter indicates increased Ip for the same power output.

Have fun.

73, Bill, K5GCW
----- Original Message -----
From: MARC McINTYRE
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Monday, March 09, 2009 3:37 AM
Subject: Re: [TS-520_820_ 530_830] Re: TS830M HV and Ip

Hi Biian,

Thanks for reply.
I have measured the resistance from pin 1 on the 6146b's to ground and it reads 5.5 volts and the resistors look good.
I was using a very reliable Avo 8 Mk5 Meter.

Marc.

From: Brian Hall <bnhall_2000@ yahoo.com>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Sunday, 8 March, 2009 23:51:51
Subject: [TS-520_820_ 530_830] Re: TS830M HV and Ip

--- In TS-520_820_530_ 830@yahoogroups. com, "w5rkl" <w5rkl@...> wrote:

> If your 830 shows 300ma in CW mode after tuning, you have mistuned/improperly tuned the 830. 300ma is way too high of IP current for the 830 or any of the hybrid.

If your Ip is reading high after properly tuning your rig, it might be due to aging of the final cathode resistors. Ip reading is derived from the voltage drop across these resistors. As their resistance climbs, their voltage drop increases and indicated Ip will increase regardless of actual Ip.

Brian AC7NA

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

20477. A Simple Thank You...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-09 14:34:59 UTC
From: chh192002
Topic: 20477 Message: 20477

I just wanted to say thanks and I see how you all care for one another, this is what I shall need in the near future when my 830S arrives via the mail.

Where can I obtain for "free" an owners manual, two places I already went to for free wanted about $15 to perform the "free" download?

Chris
W2ALQ...

20478. Re: A Simple Thank You...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-09 16:39:26 UTC
From: Gordon
Topic: 20477 Message: 20478

Get it here:
http://www.n6wk.com/kenwood/
Always FREE !

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "chh192002" <chh192002@...> wrote:
>
> I just wanted to say thanks and I see how you all care for one another, this is what I shall need in the near future when my 830S arrives via the mail.
>
> Where can I obtain for "free" an owners manual, two places I already went to for free wanted about $15 to perform the "free" download?
>
> Chris
> W2ALQ...
>

20479. TS-820; No drive on 10 Meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-10 23:09:30 UTC
From: tyhill@ymail.com
Topic: 20479 Message: 20479

Hello all,

I need some advice on troubleshooting a problem. When I try to tune up on 10 meters, there is no drive reflection according to the meter. I can tune up on 15, 20, 40 and 80 meters with no problem.

My manual says that I need to adjust the PLL unit and it points me to section 6.4 in the manual. When I turn to this section it is for adjustment of the transmitter and there is a section for adjustment of the transmit drive coil. Is this what I need to do? Should I perform the other adjustments for the transmitter in this section? Or should I do something else?

Thanks for any and all help

Ty - kg9ah

20480. Re: TS-820; No drive on 10 Meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-11 06:02:38 UTC
From: sv0xbq
Topic: 20479 Message: 20480

Hi,

If you look on here in Files, Repairs and Alignment, Simplified and quick alignment. This covers adjustment of the coils including the drive coils and it works really good for me except that he doesn't mention the 1.8 coils. Do the 1.8 coils tuned to 1.9 first, then follow the rest of the instructions. Be careful of the slugs as they're like eggs.

I think that I've read somewhere that if your drive tube is getting tired, 10m goes first.

Chris

d--- In TS-520_820_530_830@yahoogroups.com, "tyhill@..." <tyhill@...> wrote:
>
> Hello all,
>
> I need some advice on troubleshooting a problem. When I try to tune up on 10 meters, there is no drive reflection according to the meter. I can tune up on 15, 20, 40 and 80 meters with no problem.
>
> My manual says that I need to adjust the PLL unit and it points me to section 6.4 in the manual. When I turn to this section it is for adjustment of the transmitter and there is a section for adjustment of the transmit drive coil. Is this what I need to do? Should I perform the other adjustments for the transmitter in this section? Or should I do something else?
>
> Thanks for any and all help
>
> Ty - kg9ah
>

20481. Re: TS-820; No drive on 10 Meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-11 14:56:52 UTC
From: w5rkl
Topic: 20479 Message: 20481

Hold on, stop, don't adjust anything in the PLL unit!!

You said 10 meters does not work, no drive and no RF output etc.

What 10 meter band switch setting doesn't work? Do all four 10 meter band switch settings not work or just one? I suspect only "one".

Have you checked to see if your 820 has been modified for 11 meters? To do this you have to remove the PLL Unit, separate the VCO and the PD Unit PC boards then visually look at each 10 meter PD Unit's crystal to ensure they are the "original" 10 meter crystals. The 820's service manual parts lists, page 34, shows the 10 meter PD Unit crystals. I've listed the 4 10 meter crystals and their frequencies below for your convenience. Check these "FIRST" before you do any adjusting. Simply adjusting the PLL will not fix your problem, at least not at this point. Check the crystals first before you adjust anything. If one of the PD Unit crystals has been replaced with one that allows the 820 to operate on 11 meters, you will have to replace that crystal then adjust the PLL unit.

The four "original" 10 meter PD Unit crystal frequencies are as follows:

28.0 Mhz
Crystal X7 - 33.5Mhz

28.5 Mhz
Crystal X8 - 34Mhz

29.0 Mhz
Crystal X9 - 34.5Mhz

29.5 Mhz
Crystal X10 - 35.0Mhz

Until you can verify that all four of the 10 meter PD Unit crystals are as listed above, adjusting the PLL will not fix your problem but could easily make it worse.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "sv0xbq" <alexandchrisp@...> wrote:
>
> Hi,
>
> If you look on here in Files, Repairs and Alignment, Simplified and quick alignment. This

covers adjustment of the coils including the drive coils and it works really good for me except that he doesn't mention the 1.8 coils. Do the 1.8 coils tuned to 1.9 first, then follow the rest of the instructions. Be careful of the slugs as they're like eggs.
>
> I think that I've read somewhere that if your drive tube is getting tired, 10m goes first.
>
> Chris
>
>
>
> d--- In TS-520_820_530_830@yahoogroups.com, "tyhill@" <tyhill@> wrote:
> >
> > Hello all,
> >
> > I need some advice on troubleshooting a problem. When I try to tune up on 10 meters, there is no drive reflection according to the meter. I can tune up on 15, 20, 40 and 80 meters with no problem.
> >
> > My manual says that I need to adjust the PLL unit and it points me to section 6.4 in the manual. When I turn to this section it is for adjustment of the transmitter and there is a section for adjustment of the transmit drive coil. Is this what I need to do? Should I perform the other adjustments for the transmitter in this section? Or should I do something else?
> >
> > Thanks for any and all help
> >
> > Ty - kg9ah
> >
>

20482. DG 5

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-11 11:17:50 UTC
From: blacklabpupp
Topic: 20482 Message: 20482

Will a DG 5 work on a TS 820 without a digital display? Or is there a suitable counter I can use. Maybe a better one. Someone gave me another 820 without a display. It came from the factory without one. Not knowing hardly anything about Kenwood or these type of rigs I could use some help. I am afraid to tune the thing up. I have read the manual a couple of times but I cant bring myself to do it, afraid to damage the tubes. My only experience has been with QRP and my FT 840 with an SGC amp. I just turn it on and go.
Also where can I get a CW filter? Does anyone make a replacement? What about and outboard VFO, can it be used to get on all the WARC bands?
I also run on battery power here. This model does not have a DC converter on the back. If I can get it to run on DC with my other gear, how to do you go about tuning up the tubes? Do you use the same 60ma on the IP? I know some of you are about to roll on the floor laughing, knowing that I am a real appliance operator, but I need a bunch of advice and help.
Last but not least, how about SSB filter? I forgot to see if one was installed but, does the rig really need one. I am 80% of the time on CW, but a few of my pals are using SSB in the morning. I would like to use it there as well. When someone made the statement " A blast from the past" They were not kidding. Gene

20483. Re: TS-820; No drive on 10 Meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-11 11:26:58 UTC
From: tyhill@ymail.com
Topic: 20479 Message: 20483

Thanks Chris. I'll take a look at that file.
ty

--- In TS-520_820_530_830@yahoogroups.com, "sv0xbq" <alexandchrisp@...> wrote:
>
> Hi,
>
> If you look on here in Files, Repairs and Alignment, Simplified and quick alignment. This covers adjustment of the coils including the drive coils and it works really good for me except that he doesn't mention the 1.8 coils. Do the 1.8 coils tuned to 1.9 first, then follow the rest of the instructions. Be careful of the slugs as they're like eggs.
>
> I think that I've read somewhere that if your drive tube is getting tired, 10m goes first.
>
> Chris
>
>
>
> d--- In TS-520_820_530_830@yahoogroups.com, "tyhill@" <tyhill@> wrote:
> >
> > Hello all,
> >
> > I need some advice on troubleshooting a problem. When I try to tune up on 10 meters, there is no drive reflection according to the meter. I can tune up on 15, 20, 40 and 80 meters with no problem.
> >
> > My manual says that I need to adjust the PLL unit and it points me to section 6.4 in the manual. When I turn to this section it is for adjustment of the transmitter and there is a section for adjustment of the transmit drive coil. Is this what I need to do? Should I perform the other adjustments for the transmitter in this section? Or should I do something else?
> >
> > Thanks for any and all help
> >
> > Ty - kg9ah
> >
>

20484. Re: [TS-520_820_530_830] Re: TS-820; No drive on 10 Meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-11 12:02:02 UTC
From: J HARRISON
Topic: 20479 Message: 20484

Hello,
I dont have experience with the TS520, but on the TS530 and 830 you can check the emission of the 12by7a driver tube by switching off the SG (screen grid) switch on the rear of the rig, this effectively switches off the 6146 output tubes. Next, turn the meter to alc, turn up the carr.level to about half way, mode switch to tune and flip on the send switch. The alc level should show plenty of drive on all bands. Its normal for the drive level to be lower on the higher HF bands, but this can be increased via the carr. control. Inability to get sufficient drive on the higher hf bands means that either the driver tube needs replacing or the transmit tuning coils need re-aligning. Its usually always the 12BY7a that cures it. Regards. Jim G4AGW Wed, 11/3/09, sv0xbq <alexandchrisp@...> wrote:

From: sv0xbq <alexandchrisp@gmail.com>
Subject: [TS-520_820_530_830] Re: TS-820; No drive on 10 Meters
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, 11 March, 2009, 6:02 AM

Hi,

If you look on here in Files, Repairs and Alignment, Simplified and quick alignment. This covers adjustment of the coils including the drive coils and it works really good for me except that he doesn't mention the 1.8 coils. Do the 1.8 coils tuned to 1.9 first, then follow the rest of the instructions. Be careful of the slugs as they're like eggs.

I think that I've read somewhere that if your drive tube is getting tired, 10m goes first.

Chris

d--- In TS-520_820_530_ 830@yahoogroups. com, "tyhill@..." <tyhill@...> wrote:
>
> Hello all,
>
> I need some advice on troubleshooting a problem. When I try to tune up on 10 meters, there is no drive reflection according to the meter. I can tune up on 15, 20, 40 and 80 meters with no problem.
>
> My manual says that I need to adjust the PLL unit and it points me to section 6.4 in the manual. When I turn to this section it is for adjustment of the transmitter and there is a section for adjustment of the transmit drive coil. Is this what I need to do? Should I perform the other adjustments for the transmitter in this section? Or should I do something else?
>
> Thanks for any and all help
>
> Ty - kg9ah
>

[Non-text portions of this message have been removed]

20485. Re: DG 5

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-11 19:10:31 UTC
From: w5rkl
Topic: 20482 Message: 20485

The DG-5 will not work with the 820.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "blacklabpupp" <blacklabpupp@...> wrote:
>
> Will a DG 5 work on a TS 820 without a digital display? Or is there a suitable counter I can use. Maybe a better one. Someone gave me another 820 without a display. It came from the factory without one. Not knowing hardly anything about Kenwood or these type of rigs I could use some help. I am afraid to tune the thing up. I have read the manual a couple of times but I cant bring myself to do it, afraid to damage the tubes. My only experience has been with QRP and my FT 840 with an SGC amp. I just turn it on and go.
> Also where can I get a CW filter? Does anyone make a replacement? What about and outboard VFO, can it be used to get on all the WARC bands?
> I also run on battery power here. This model does not have a DC converter on the back. If I can get it to run on DC with my other gear, how to do you go about tuning up the tubes? Do you use the same 60ma on the IP? I know some of you are about to roll on the floor laughing, knowing that I am a real appliance operator, but I need a bunch of advice and help.
> Last but not least, how about SSB filter? I forgot to see if one was installed but, does the rig really need one. I am 80% of the time on CW, but a few of my pals are using SSB in the morning. I would like to use it there as well. When someone made the statement " A blast from the past" They were not kidding. Gene
>

20486. Re: TS-820; No drive on 10 Meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-11 19:47:14 UTC
From: Brian Hall
Topic: 20479 Message: 20486

Be advised that low or no drive on 10M is generally the first symptom of a soft or failing driver tube (12BY7A).

The transmitter alignment you are referring to is the correct procedure to align the drive circuits, but if that does not restore proper drive, I'd recommend replacing the driver tube and repeating the procedure.

Brian AC7NA

--- In TS-520_820_530_830@yahoogroups.com, "tyhill@..." <tyhill@...> wrote:
>
> Hello all,
>
> I need some advice on troubleshooting a problem. When I try to tune up on 10 meters, there is no drive reflection according to the meter. I can tune up on 15, 20, 40 and 80 meters with no problem.
>
> My manual says that I need to adjust the PLL unit and it points me to section 6.4 in the manual. When I turn to this section it is for adjustment of the transmitter and there is a section for adjustment of the transmit drive coil. Is this what I need to do? Should I perform the other adjustments for the transmitter in this section? Or should I do something else?
>
> Thanks for any and all help
>
> Ty - kg9ah
>

20487. Re: TS-820; No drive on 10 Meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-11 19:40:09 UTC
From: tyhill@ymail.com
Topic: 20479 Message: 20487

Thanks everyone for responding, so here is an update:

Just to clarify some things:
1. 10 Meter worked about 1 week ago on 28.400Mhz using a G5RV antenna and antenna tuner. This past weekend I built a 4:1 balun and installed it. All other bands worked but no drive on 28.400. This weekend I'm going to connect my 10m vertical antenna up and see how it responds. I wouldn't think by adding a balun to a G5RV would make any difference, but that is the only change made in my setup

2. Ordered a 12by7a tube for justin...

3. Last night I decided to try to tune up again. This time I noticed deflection on the power meter of my antenna tuner, but no response on the 820 meter. I was able to dip the plate with no problems. So I tried to adjust the drive by watching the antenna tuner power meter, then dipped the plate. This worked but only go 50 watts out.

4. This radio does not have any mods.

Based upon information here and elsewhere, I'm beginning to think that the 12by7a tube is about to go. This past weekend I was able to work stations on 15, 20, 40 and 80 meters with no problems

Thanks again to all the responses, and will appreciate any further comments.

73

ty kg9ah

--- In TS-520_820_530_830@yahoogroups.com, J HARRISON <jameshharrison@...> wrote:
>
> Hello,
> I dont have experience with the TS520, but on the TS530 and 830 you can check the emission of the 12by7a driver tube by switching off the SG (screen grid) switch on the rear of the rig, this effectively switches off the 6146 output tubes. Next, turn theÂ meter to alc, turn up the carr.level to about half way, mode switch to tune and flip on the send switch.Â The alc level should show plenty of drive on all bands.Â Its normal for the drive level to be lower on the higher HF bands, but this can be increased via the carr. control.Â Â Inability to get sufficient drive on the higher hf bands means that either the driver tube needs replacing or the transmit tuning coils need re-aligning.Â Â Its usually always the 12BY7a that cures it.Â Regards.Â Jim G4AGWÂ Wed, 11/3/09, sv0xbq <alexandchrisp@...> wrote:
>
> From: sv0xbq <alexandchrisp@...>
> Subject: [TS-520_820_530_830] Re: TS-820; No drive on 10 Meters
> To: TS-520_820_530_830@yahoogroups.com
> Date: Wednesday, 11 March, 2009, 6:02 AM
>

>
>
>
>
>
> Hi,
>
> If you look on here in Files, Repairs and Alignment, Simplified and quick alignment. This covers adjustment of the coils including the drive coils and it works really good for me except that he doesn't mention the 1.8 coils. Do the 1.8 coils tuned to 1.9 first, then follow the rest of the instructions. Be careful of the slugs as they're like eggs.
>
> I think that I've read somewhere that if your drive tube is getting tired, 10m goes first.
>
> Chris
>
> d--- In TS-520_820_530_ 830@yahoogroups. com, "tyhill@" <tyhill@> wrote:
> >
> > Hello all,
> >
> > I need some advice on troubleshooting a problem. When I try to tune up on 10 meters, there is no drive reflection according to the meter. I can tune up on 15, 20, 40 and 80 meters with no problem.
> >
> > My manual says that I need to adjust the PLL unit and it points me to section 6.4 in the manual. When I turn to this section it is for adjustment of the transmitter and there is a section for adjustment of the transmit drive coil. Is this what I need to do? Should I perform the other adjustments for the transmitter in this section? Or should I do something else?
> >
> > Thanks for any and all help
> >
> > Ty - kg9ah
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> [Non-text portions of this message have been removed]
>

20488. (no subject)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-11 20:30:30 UTC
From: fc4131@aol.com
Topic: 20488 Message: 20488

Can anyone tell me who makes a digital readout unit for a 520 model. Kit
form would be great too?

kc0ysh
**********Need a job? Find employment help in your area.
(http://yellowpages.aol.com/search?query=employment_agencies&ncid=emlcntusyelp00000005)

[Non-text portions of this message have been removed]

20489. Re: [TS-520_820_530_830] (no subject)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-11 21:12:27 UTC
From: William S. White
Topic: 20489 Message: 20489

Almost All Digital Electronics:
http://www.aade.com/dfd.htm

KC2PCF

----- Original Message -----
From: <fc4131@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, March 11, 2009 4:30 PM
Subject: [TS-520_820_530_830] (no subject)

> Can anyone tell me who makes a digital readout unit for a 520 model. Kit
> form would be great too?
>
> kc0ysh

20490. Re: [TS-520_820_530_830] (no subject)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-11 21:22:27 UTC
From: David King
Topic: 20488 Message: 20490

Almost All Digital Electronics <http://www.aade.com/>

Try them...he has it as kit, and I believe you can also get it
assembled. www.aade.com

dk
WY7DK

fc4131@... wrote:
>
> Can anyone tell me who makes a digital readout unit for a 520 model. Kit
> form would be great too?
>
> kc0ysh
> **********Need a job? Find employment help in your area.
> (http://yellowpages.aol.com/search?query=employment_agencies&ncid=emlcntusyelp00000005
> <http://yellowpages.aol.com/search?query=employment_agencies&ncid=emlcntusyelp00000005>)
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

20491. Re: [TS-520_820_530_830] DG 5

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-12 01:33:24 UTC
From: Adam Wade
Topic: 20482 Message: 20491

--- On Wed, 3/11/09, blacklabpupp <blacklabpupp@...> wrote:
From: blacklabpupp <blacklabpupp@...>
Subject: [TS-520_820_530_830] DG 5
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, March 11, 2009, 4:17 AM

> Will a DG 5 work on a TS 820 without a digital display? Or is
> there a suitable counter I can use. Maybe a better one.

http://www.aade.com/dfd2.htm

Email him and ask, I think it should work well on an 820. I have one on my 520S and wonder how I ever got along without it.

! Adam Wade -==- 90 Zephyr 615 (Daphne) -=- 86 Ninja 250 (Iris) !
! "I write down everything I want to remember. That way, instead !
! of spending a lot of time trying to remember what it is I wrote !
! down, I spend z time looking for the paper I wrote it down on." !
! - Beryl Pfizer -=- AF6ME -=- http://www.allthings550.com !

20492. Re: DG 5

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-12 14:38:51 UTC
From: blacklabpupp
Topic: 20482 Message: 20492

Is it worth it to just purchase a junk 820 and remove the counter from it? Will it work with just a change out? I like the counter you directed me to, but will it take working inside the rig with solder and scope. At this time my eyes will not let me do it.

--- In TS-520_820_530_830@...m, Adam Wade <espresso_doppio@...> wrote:
>
>
> --- On Wed, 3/11/09, blacklabpupp <blacklabpupp@...> wrote:
> From: blacklabpupp <blacklabpupp@...>
> Subject: [TS-520_820_530_830] DG 5
> To: TS-520_820_530_830@...m
> Date: Wednesday, March 11, 2009, 4:17 AM
>
> > Will a DG 5 work on a TS 820 without a digital display? Or is
> > there a suitable counter I can use. Maybe a better one.
>
> http://www.aade.com/dfd2.htm
>
> Email him and ask, I think it should work well on an 820. I have one on my 520S and wonder how I ever got along without it

20493. kenwood 820-s problem.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-12 12:19:16 UTC
From: dave
Topic: 20493 Message: 20493

Good Day everyone,..I have a kenwood 82o-s that im having a problem with. One day in the room here i was working on another rig when, i pulled antenna coax from the kenwood to test the other rig. while i was keying the other rig, my breaker to my room tripped..I went and reset the breaker and, on way back to room stopped to pour cup of coffee. When i got back i went to hook antenna coax back to the kenwood when i noticed that the digital display was out. The meter stayed lit and i have a little air noise but, no tx or rx now. im not sure it was the kenwood that tripped the breaker but, when i had coax off the rig i did leave the tubes lit because, i assumed i would have coax off only for short time. I really really love this rig and, im hoping its in the low voltage supply somewhere but, i need to find out where. Any help will be greatly appreciated as, i sure miss the big guy sitting there on my bench cranking out some of the best audio i ever heard in any rig.

Thank you for your time,

Dave.

20494. Backup Pwr

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-11 20:50:09 UTC
From: chh192002
Topic: 20494 Message: 20494

Greetings,

Can anyone tell where to find details of creating a backup power source for a TS-830. I accept maybe I just need a power inverter to go from an automotive battery. Is there any more clever way of doing this (short of an UPS)?

20495. Re: [TS-520_820_530_830] kenwood 820-s problem.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-12 16:04:49 UTC
From: N6WK
Topic: 20493 Message: 20495

Dave,
Did you knock the 9 Pin plug out of the EXT VFO connector?

Gordon

dave wrote:
>
> Good Day everyone,..I have a kenwood 82o-s that im having a problem
> with. One day in the room here i was working on another rig when, i
> pulled antenna coax from the kenwood to test the other rig. while i
> was keying the other rig, my breaker to my room tripped..I went and
> reset the breaker and, on way back to room stopped to pour cup of
> coffee. When i got back i went to hook antenna coax back to the
> kenwood when i noticed that the digital display was out. The meter
> stayed lit and i have a little air noise but, no tx or rx now. im not
> sure it was the kenwood that tripped the breaker but, when i had coax
> off the rig i did leave the tubes lit because, i assumed i would have
> coax off only for short time. I really really love this rig and, im
> hoping its in the low voltage supply somewhere but, i need to find out
> where. Any help will be greatly appreciated as, i sure miss the big
> guy sitting there on my bench cranking out some of the best audio i
> ever heard in any rig.
>
> Thank you for your time,
>
> Dave.
>
>

20496. Re: kenwood 820-s problem.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-12 16:41:55 UTC
From: dave
Topic: 20493 Message: 20496

--- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@...> wrote:
>
> Dave,
> Did you knock the 9 Pin plug out of the EXT VFO connector?
>
> Gordon
>
> dave wrote:
> >
> > Good Day everyone,..I have a kenwood 82o-s that im having a problem
> > with. One day in the room here i was working on another rig when, i
> > pulled antenna coax from the kenwood to test the other rig. while i
> > was keying the other rig, my breaker to my room tripped..I went and
> > reset the breaker and, on way back to room stopped to pour cup of
> > coffee. When i got back i went to hook antenna coax back to the
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> > where. Any help will be greatly appreciated as, i sure miss the big
> > guy sitting there on my bench cranking out some of the best audio i
> > ever heard in any rig.
> >
> > Thank you for your time,
> >
> > Dave.
> >
> >Hi Gordon,..Now go figgure...i read your question and knew that i did not knock the 9 pin plug out of the socket on back but, before i answered you i picked up the rig and checked. It was still plugged in socket but kinda loose a bit so, i pushed it in harder a bit and, fired up the rig and, it works !! Thank you for your suggestion because, i never would have suspect the 9 pin connecter since it was still plugged in the socket. I am a happy camper now lol. Also on this rig, my 2nd segment on display is out. instead of reading 7.250 it reads .250 or, instead of 29.305, it reads 2 .305 im told its just ground prob or something. you ever run into this problem? Anyways, thanx again for your help. Im going to go hook it up now and enjoy. Have a great day.

Dave.
>

20497. Re: DG 5

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-12 17:24:46 UTC
From: w5rkl
Topic: 20482 Message: 20497

Yes, if the 820S parts radio has ALL 3 of the digital display items listed below and if they all work.

The 820 digital display consist of the following 3 items:

1. 5VDC regulator (includes all mounting hardware, 3 prong plastic plug and wires)

2. Counter assembly

3. Digital display tube (multi-wire plug and wires)

DO NOT cut the wires at the 5VDC regulator's 3 prong plug.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "blacklabpupp" <blacklabpupp@...> wrote:
>
> Is it worth it to just purchase a junk 820 and remove the counter from it? Will it work with just a change out? I like the counter you directed me to, but will it take working inside the rig with solder and scope. At this time my eyes will not let me do it.
>
> --- In TS-520_820_530_830@yahoogroups.com, Adam Wade <espresso_doppio@> wrote:
> >
> >
> > --- On Wed, 3/11/09, blacklabpupp <blacklabpupp@> wrote:
> > From: blacklabpupp <blacklabpupp@>
> > Subject: [TS-520_820_530_830] DG 5
> > To: TS-520_820_530_830@yahoogroups.com
> > Date: Wednesday, March 11, 2009, 4:17 AM
> >
> > > Will a DG 5 work on a TS 820 without a digital display? Or is
> > > there a suitable counter I can use. Maybe a better one.
> >
> > http://www.aade.com/dfd2.htm
> >
> > Email him and ask, I think it should work well on an 820. I have one on my 520S and wonder how I ever got along without it
>

20498. Re: kenwood 820-s problem.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-12 17:26:37 UTC
From: w5rkl
Topic: 20493 Message: 20498

Check the "DH" button below the meters switch. IF it's pushed in, this will happen.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "dave" <doc_924@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@> wrote:
> >
> > Dave,
> > Did you knock the 9 Pin plug out of the EXT VFO connector?
> >
> > Gordon
> >
> > dave wrote:
> > >
> > > Good Day everyone,..I have a kenwood 82o-s that im having a problem
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> > > where. Any help will be greatly appreciated as, i sure miss the big
> > > guy sitting there on my bench cranking out some of the best audio i
> > > ever heard in any rig.
> > >
> > > Thank you for your time,
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> > > Dave.
> > >
> > >Hi Gordon,..Now go figgure...i read your question and knew that i did not knock the 9 pin plug out of the socket on back but, before i answered you i picked up the rig and checked. It was still plugged in socket but kinda loose a bit so, i pushed it in harder a bit and, fired up the rig and, it works !! Thank you for your suggestion because, i never would have suspect the 9 pin connecter since it was still plugged in the socket. I am a happy camper now lol. Also on this rig, my 2nd segment on display is out. instead of reading 7.250 it reads .250 or, instead of 29.305, it reads 2 .305 im told its just ground prob or something. you ever run into this problem? Anyways, thanx again for your help. Im

going to go hook it up now and enjoy. Have a great day.
>
>
>
> Dave.
> >
>

20499. Re: DG 5

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-12 19:16:50 UTC
From: plungerdp
Topic: 20482 Message: 20499

--- What is the negative effect of cutting the wires @ this location?

Thanks, Harry, k6aom

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Yes, if the 820S parts radio has ALL 3 of the digital display items listed below and if they all work.
>
> The 820 digital display consist of the following 3 items:
>
> 1. 5VDC regulator (includes all mounting hardware, 3 prong plastic plug and wires)
>
> 2. Counter assembly
>
> 3. Digital display tube (multi-wire plug and wires)
>
> DO NOT cut the wires at the 5VDC regulator's 3 prong plug.
>
> 73
> Mike
> W5RKL
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "blacklabpupp" <blacklabpupp@> wrote:
> >
> > Is it worth it to just purchase a junk 820 and remove the counter from it? Will it work with just a change out? I like the counter you directed me to, but will it take working inside the rig with solder and scope. At this time my eyes will not let me do it.
> >
> > --- In TS-520_820_530_830@yahoogroups.com, Adam Wade <espresso_doppio@> wrote:
> > >
> > >
> > > --- On Wed, 3/11/09, blacklabpupp <blacklabpupp@> wrote:
> > > From: blacklabpupp <blacklabpupp@>
> > > Subject: [TS-520_820_530_830] DG 5
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Date: Wednesday, March 11, 2009, 4:17 AM
> > >
> > > > Will a DG 5 work on a TS 820 without a digital display? Or is
> > > > there a suitable counter I can use. Maybe a better one.
> > >
> > > http://www.aade.com/dfd2.htm

> > >
> > > Email him and ask, I think it should work well on an 820. I have one on my 520S and wonder how I ever got along without it
> >
>

20500. Re: [TS-520_820_530_830] Re: TS-820; No drive on 10 Meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-12 19:25:08 UTC
From: Daniel TOESCA
Topic: 20479 Message: 20500

Hi, May I remember that any testing is best done on a 50-ohm dummy load.

Using the antenna, especially through a coupler / matcher, give false ideas
of what is happening.

I agree with the 12BY7 comments, but if you change it you'll have to
re-align the TX RF coils.

73's - Daniel, ON5PY

2009/3/11, tyhill@... <tyhill@...>:
>
> Thanks everyone for responding, so here is an update:
>
> Just to clarify some things:
> 1. 10 Meter worked about 1 week ago on 28.400Mhz using a G5RV antenna and
> antenna tuner. This past weekend I built a 4:1 balun and installed it. All
> other bands worked but no drive on 28.400. This weekend I'm going to connect
> my 10m vertical antenna up and see how it responds. I wouldn't think by
> adding a balun to a G5RV would make any difference, but that is the only
> change made in my setup
>
> 2. Ordered a 12by7a tube for justin...
>
> 3. Last night I decided to try to tune up again. This time I noticed
> deflection on the power meter of my antenna tuner, but no response on the
> 820 meter. I was able to dip the plate with no problems. So I tried to
> adjust the drive by watching the antenna tuner power meter, then dipped the
> plate. This worked but only go 50 watts out.
>
> 4. This radio does not have any mods.
>
> Based upon information here and elsewhere, I'm beginning to think that the
> 12by7a tube is about to go. This past weekend I was able to work stations on
> 15, 20, 40 and 80 meters with no problems
>
> Thanks again to all the responses, and will appreciate any further
> comments.
>
> 73
>
> ty kg9ah
>
> --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> J HARRISON <jameshharrison@...> wrote:
> >

> > Hello,
> > I dont have experience with the TS520, but on the TS530 and 830 you can
> check the emission of the 12by7a driver tube by switching off the SG (screen
> grid) switch on the rear of the rig, this effectively switches off the 6146
> output tubes. Next, turn theÂ meter to alc, turn up the carr.level to about
> half way, mode switch to tune and flip on the send switch.Â The alc level
> should show plenty of drive on all bands.Â Its normal for the drive level
> to be lower on the higher HF bands, but this can be increased via the carr.
> control.Â Â Inability to get sufficient drive on the higher hf bands means
> that either the driver tube needs replacing or the transmit tuning coils
> need re-aligning.Â Â Its usually always the 12BY7a that cures it.Â
> Regards.Â Jim G4AGWÂ Wed, 11/3/09, sv0xbq <alexandchrisp@...> wrote:
> >
> > From: sv0xbq <alexandchrisp@...>
> > Subject: [TS-520_820_530_830] Re: TS-820; No drive on 10 Meters
> > To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> > Date: Wednesday, 11 March, 2009, 6:02 AM
> >
> >
> >
> >
> >
> >
> >
> > Hi,
> >
> > If you look on here in Files, Repairs and Alignment, Simplified and quick
> alignment. This covers adjustment of the coils including the drive coils and
> it works really good for me except that he doesn't mention the 1.8 coils. Do
> the 1.8 coils tuned to 1.9 first, then follow the rest of the instructions.
> Be careful of the slugs as they're like eggs.
> >
> > I think that I've read somewhere that if your drive tube is getting
> tired, 10m goes first.
> >
> > Chris
> >
> > d--- In TS-520_820_530_ 830@yahoogroups. com, "tyhill@" <tyhill@> wrote:
> > >
> > > Hello all,
> > >
> > > I need some advice on troubleshooting a problem. When I try to tune up
> on 10 meters, there is no drive reflection according to the meter. I can
> tune up on 15, 20, 40 and 80 meters with no problem.
> > >
> > > My manual says that I need to adjust the PLL unit and it points me to
> section 6.4 in the manual. When I turn to this section it is for adjustment
> of the transmitter and there is a section for adjustment of the transmit
> drive coil. Is this what I need to do? Should I perform the other
> adjustments for the transmitter in this section? Or should I do something
> else?

> > >
> > > Thanks for any and all help
> > >
> > > Ty - kg9ah
> > >
> >
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> > [Non-text portions of this message have been removed]
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20501. Re: [TS-520_820_530_830] TS-520SE alignment

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-12 20:21:30 UTC
From: Daniel TOESCA
Topic: 20431 Message: 20501

Hi Chris,
Maybe I'm too late, but you have to follow the procedure per the manual, that is :

1- adjust the cores of the 1.8 MHz coils with the set on the 160 meter band and receiving the calibrator signal at 1.9 MHz with the preselector knob at 12 o'clock,

2- then adjust the 28 - 21 - 14 - 7 and 3.5 MHz Rx RF and Mixer coils slugs IN THAT ORDER with the set receiving the calibrator signal on the frequencies specified in the manual (you can cheat a little and choose to align with the set receiving your favorite part of the band withe the preselector knob pointing in the 12 o'clock position),

3- then adjust the 28 - 21 - 14 - 7 and 3.5 MHz Tx Driver coils slugs IN THAT ORDER for maximum ALC.

If you look at the schematic, you'll understand why : coils are arranged in a series / parallel way, so no other way to proceed.

73's - Daniel, ON5PY

2009/3/3, sv0xbq <alexandchrisp@...>:
>
> Hi,
> I've got a 520se that I'm trying to set up but I'm having problems
> aligning the bands. The 1.8 slugs have no effect on the test signal
> strength. I've cleaned the switches and everything looks clean and OK.
> Any advice would be much appreciated.
>
> Chris
>
>
>

[Non-text portions of this message have been removed]

20502. RFI

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-12 21:26:28 UTC
From: Michael
Topic: 13844 Message: 20502

This is just a note that is not specific to Kenwood rigs. It is a story about receiver interference and the solution.

A few months ago I suddenly began hearing noise on part of the 75 meter band. This was particularly annoying because it was on a freq that I often use to talk to local hams.

I concluded that the noise must be from some power line problem a few blocks from my house because I knew that I had not plugged in any new appliances or electronics in my house. Here in the upper peninsula the height of the snow and cold temperatures prevented me from using my portable short wave radio to go out and track down the problem.

Well, I went out a couple of weeks ago when we had an unseasonal rise in temperature to 38 degrees. I began walking from my house following the power line going to the pole. The closer I got to the pole the lower the noise. Every time I moved away from my home, the noise got less. Half a block from my house there was zero noise.

I went back in my house and used the rf gain on my Grundig short wave receiver. I walked the house back and forth and finally found the noise was greatest in the basement. I then lowered the rf gain even more and was able to walk right up to a switching power supply wall wart used to charge a defunct cell phone. Just lowering the radio's whip antenna toward this power supply increased noise. I unplugged the power supply and suddenly the noise went away and I heard air noise on my radio. I picked up this little wall wart and looked at it. The small end of the wire that plugs into the cell phone had been arcing and was kinda in a black mess. This wall wart failed and began sending 120 vac down into a connector that could not insulate enough to prevent arcing.

The bottom line to this story is to never assume that the noise you hear is coming from somewhere else. Now, if I hear a new noise, I will pull the circuit breaker to my whole house. This is a simple way to isolate the problem. I realize there is the inconvenience of resetting every clock. However, the inconvenience of putting up with an S7 noise level on 75 meters is worse.

I am still kicking myself for putting up with this noise for 3 months before I checked my own house. Never assume that the equipment you have cannot fail and begin causing noise.

Now I have a nice S1/2 noise level on my loop antenna. That is a good number for living right in town.

Michael

20503. Re: RFI

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-12 22:27:58 UTC
From: chh192002
Topic: 13844 Message: 20503

--- In TS-520_820_530_830@yahoogroups.com, "Michael" <micoder@...> wrote:
>
> This is just a note that is not specific to Kenwood rigs. It is a story about receiver interference and the solution.
>
> A few months ago I suddenly began hearing noise on part of the 75 meter band. This was particularly annoying because it was on a freq that I often use to talk to local hams.
>
> I concluded that the noise must be from some power line problem a few blocks from my house because I knew that I had not plugged in any new appliances or electronics in my house. Here in the upper peninsula the height of the snow and cold temperatures prevented me from using my portable short wave radio to go out and track down the problem.
>
> Well, I went out a couple of weeks ago when we had an unseasonal rise in temperature to 38 degrees. I began walking from my house following the power line going to the pole. The closer I got to the pole the lower the noise. Every time I moved away from my home, the noise got less. Half a block from my house there was zero noise.
>
> I went back in my house and used the rf gain on my Grundig short wave receiver. I walked the house back and forth and finally found the noise was greatest in the basement. I then lowered the rf gain even more and was able to walk right up to a switching power supply wall wart used to charge a defunct cell phone. Just lowering the radio's whip antenna toward this power supply increased noise. I unplugged the power supply and suddenly the noise went away and I heard air noise on my radio. I picked up this little wall wart and looked at it. The small end of the wire that plugs into the cell phone had been arcing and was kinda in a black mess. This wall wart failed and began sending 120 vac down into a connector that could not insulate enough to prevent arcing.
>
> The bottom line to this story is to never assume that the noise you hear is coming from somewhere else. Now, if I hear a new noise, I will pull the circuit breaker to my whole house. This is a simple way to isolate the problem. I realize there is the inconvenience of resetting every clock. However, the inconvenience of putting up with an S7 noise level on 75 meters is worse.
>
> I am still kicking myself for putting up with this noise for 3 months before I checked my own house. Never assume that the equipment you have cannot fail and begin causing noise.
>
> Now I have a nice S1/2 noise level on my loop antenna. That is a good number for living right in town.
>
> Michael
>
Well Michael, you are so lucky. Consider if the arcing had become worse and you had a fire or other tragedy in your home. These kind of little learning lessons help us realize just how lucky we are sometimes.

Chris
W2ALQ

20504. YG 88s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-13 03:22:14 UTC
From: blacklabpupp
Topic: 20504 Message: 20504

I just opened up the TS 820 and found it only has one filter. SSB YG 88s, I looked in the Files and found only a YK 88. Are they the same? What is the width of this filter?
I see on the INRAD page that they offer a filter for the TS 820, I know many think they have the best. But I dont know this rig very well yet, and I am not sure if i should look for the Kenwood original or just take the Inrad.
Also do you have to tune the rig every time you move. Can you move 50kh and not tune. What is the rule for such? I dont remember reading a thing about it in the manual.
Another thing I noticed tonight is the Send/Manual Monitor NB, flat switches, they seem funny to to the touch, are they suppose to be soft and funny filling?
While I have the top off I noticed it all looks so new, the rig has been in storage for 20+ years. What should I be concerned about, or change? Sorry for being long winded but I find this radio more fun than any I have ever owned.
Also does anyone have a DG 1 for sale or know of a place to get one?What I see on ebay is not what I am looking for. Gene

20505. Re: [TS-520_820_530_830] TS-520SE alignment

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-13 05:17:17 UTC
From: Chris and Alex
Topic: 20431 Message: 20505

Hi Daniel,

I've sorted this out thanks. It was the first time I'd worked on this
so with the covers off and on it's side in the service position with
the dials facing me I looked at the band markings on the oscillator
coils and assumed that they were the same for the IF, antenna and
drive coils. Wrong. Looking from the rear the IF, antenna and drive
coils are in a different order so I was adjusting the wrong
slugs....... Doh!

I bet I'm not the first to do this.

Chris

2009/3/12 Daniel TOESCA <ON5PY1967@...>:
> Hi Chris,
> Maybe I'm too late, but you have to follow the procedure per the manual,
> that is :
>
> 1- adjust the cores of the 1.8 MHz coils with the set on the 160 meter band
> and receiving the calibrator signal at 1.9 MHz with the preselector knob at
> 12 o'clock,
>
> 2- then adjust the 28 - 21 - 14 - 7 and 3.5 MHz Rx RF and Mixer coils slugs
> IN THAT ORDER with the set receiving the calibrator signal on the
> frequencies specified in the manual (you can cheat a little and choose to
> align with the set receiving your favorite part of the band withe the
> preselector knob pointing in the 12 o'clock position),
>
> 3- then adjust the 28 - 21 - 14 - 7 and 3.5 MHz Tx Driver coils slugs IN
> THAT ORDER for maximum ALC.
>
> If you look at the schematic, you'll understand why : coils are arranged in
> a series / parallel way, so no other way to proceed.
>
> 73's - Daniel, ON5PY
>
> 2009/3/3, sv0xbq <alexandchrisp@...>:
>>
>> Hi,
>> I've got a 520se that I'm trying to set up but I'm having problems
>> aligning the bands. The 1.8 slugs have no effect on the test signal
>> strength. I've cleaned the switches and everything looks clean and OK.
>> Any advice would be much appreciated.
>>
>> Chris

>>
>>
>>
>
> [Non-text portions of this message have been removed]
>
>

20506. Re: YG 88s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-13 05:36:21 UTC
From: sv0xbq
Topic: 20504 Message: 20506

Hi Gene,
I'm having similar fun with a TS-520SE. I went around all of the switches and pots with a can of switch cleaner with lube. With the power off I always splash everything to ground before touching anything even when the sets been off overnight. If it all looks good then use it and see how it performs. The flat switches are soft so I don't think that's a problem
I also need a cw filter YG-3395C does anyone know if there is anything I can use instead of this?
Chris

--- In TS-520_820_530_830@yahoogroups.com, "blacklabpupp" <blacklabpupp@...> wrote:
>
> I just opened up the TS 820 and found it only has one filter. SSB YG 88s, I looked in the Files and found only a YK 88. Are they the same? What is the width of this filter?
> I see on the INRAD page that they offer a filter for the TS 820, I know many think they have the best. But I dont know this rig very well yet, and I am not sure if i should look for the Kenwood original or just take the Inrad.
> Also do you have to tune the rig every time you move. Can you move 50kh and not tune. What is the rule for such? I dont remember reading a thing about it in the manual.
> Another thing I noticed tonight is the Send/Manual Monitor NB, flat switches, they seem funny to to the touch, are they suppose to be soft and funny filling?
> While I have the top off I noticed it all looks so new, the rig has been in storage for 20+ years. What should I be concerned about, or change? Sorry for being long winded but I find this radio more fun than any I have ever owned.
> Also does anyone have a DG 1 for sale or know of a place to get one?What I see on ebay is not what I am looking for. Gene
>

20507. Re: [TS-520_820_530_830] YG 88s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-13 05:45:24 UTC
From: martin
Topic: 20504 Message: 20507

blacklabpupp wrote:
> I just opened up the TS 820 and found it only has one filter. SSB YG 88s, I looked in the Files and found only a YK 88. Are they the same? What is the width of this filter?
> I see on the INRAD page that they offer a filter for the TS 820, I know many think they have the best. But I dont know this rig very well yet, and I am not sure if i should look for the Kenwood original or just take the Inrad.
> Also do you have to tune the rig every time you move. Can you move 50kh and not tune. What is the rule for such? I dont remember reading a thing about it in the manual.
> Another thing I noticed tonight is the Send/Manual Monitor NB, flat switches, they seem funny to to the touch, are they suppose to be soft and funny filling?
> While I have the top off I noticed it all looks so new, the rig has been in storage for 20+ years. What should I be concerned about, or change? Sorry for being long winded but I find this radio more fun than any I have ever owned.
> Also does anyone have a DG 1 for sale or know of a place to get one?What I see on ebay is not what I am looking for. Gene
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

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www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

20508. Re: [TS-520_820_530_830] YG 88s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-13 05:50:15 UTC
From: martin
Topic: 20504 Message: 20508

Hi Gene. The YG-88s is the 2.4 Khz SSb filter that is original to the radio. Inrad has filters, but some of them must be wired in, as they are larger than the originals. What type of filters are you interested in? (As in CW, or Narrower SSB).

You need to re-tune the radio if you move more than 50Khz up or down the band you are on.

TTYL

blacklabpupp wrote:
> I just opened up the TS 820 and found it only has one filter. SSB
> YG 88s, I looked in the Files and found only a YK 88. Are they the
> same? What is the width of this filter? I see on the INRAD page
> that they offer a filter for the TS 820, I know many think they
> have the best. But I dont know this rig very well yet, and I am not
> sure if i should look for the Kenwood original or just take the
> Inrad. Also do you have to tune the rig every time you move. Can
> you move 50kh and not tune. What is the rule for such?

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at http://www.defectivebydesign.org/what_is_drm"

20509. Re: Backup Pwr

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-13 16:02:27 UTC
From: james27613
Topic: 20494 Message: 20509

hi,

most of the inverters put out a square wave or even a
modified sine wave and the transformer in the radio
will not like it.

if your inverter is full sine wave it will work fine.
otherwise find a used APC brand SmartUPS 600 series,
or larger, full sine wave and you can start it from the battery
without any ac power connected.

I have an external battery attached to the ups
with powerpole connectors that can run the ups
for a long time. just don't exceed the capacity of the ups
even if you use an external battery.

73 james ke4drn

20510. Re: RFI

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-13 16:50:23 UTC
From: Michael
Topic: 13844 Message: 20510

> Well Michael, you are so lucky. Consider if the arcing had become worse and you had a fire or other tragedy in your home. These kind of little learning lessons help us realize just how lucky we are sometimes.
>
> Chris
> W2ALQ
>

Your are very right about this Chris. The end of that arcing connector was about 2 inches from a cardboard box.

Michael

20511. AT-230 problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-13 17:39:15 UTC
From: Todd Wilson
Topic: 20511 Message: 20511

I have a 530s and a at-230 tuner setup. Lately the tuner seems to be having a problem of some kind. I'll try and explain it.....

The signal cuts out. Usually right after I fire up the rig. If I set a cup down on the table or
sometimes hit the table with my hand the audio cuts clear out like maybe the radio is loosing
its antenna connection. If I jiggled, push or move the band switch on the tuner a few times the problem clears up and all is good for the rest of the night. I have cleaned the inside switch
area. Checked all connections everywhere and thought I had it all taken care of as the problem went away for a while but its back. Usually only does it on the 75/80 3.5 setting. Other bands seem to be ok, Everything inside looks fine to me. All clean and no connections appear to be loose. I seem to be missing something and was wondering if the group would have an answer. Thanks

Todd - N0UNI

20512. Tap into 820S for external freq counter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-13 14:55:48 UTC
From: sherwinb
Topic: 20512 Message: 20512

Where and how could I tap into my 820S to safely bring out a signal to my Heathkit external freq counter?

Sherwin

K9KWY

20513. Re: AT-230 problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-13 18:21:16 UTC
From: sv0xbq
Topic: 20511 Message: 20513

If you haven't got the VOX on I think I'd check the relays before anything else

Chris

--- In TS-520_820_530_830@yahoogroups.com, "Todd Wilson" <t1wilsn2@...> wrote:
>
> I have a 530s and a at-230 tuner setup. Lately the tuner seems to be having a problem of
> some kind. I'll try and explain it.........
>
> The signal cuts out. Usually right after I fire up the rig. If I set a cup down on the
table or
> sometimes hit the table with my hand the audio cuts clear out like maybe the radio is
loosing
> its antenna connection. If I jiggled, push or move the band switch on the tuner a few
times
> the problem clears up and all is good for the rest of the night. I have cleaned the
inside switch
> area. Checked all connections everywhere and thought I had it all taken care of as the
> problem went away for a while but its back. Usually only does it on the 75/80 3.5
setting.
> Other bands seem to be ok, Everything inside looks fine to me. All clean and no
connections
> appear to be loose. I seem to be missing something and was wondering if the group would
> have an answer. Thanks
>
>
> Todd - N0UNI
>

20514. Re: [TS-520_820_530_830] Re: Backup Pwr

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-13 19:03:56 UTC
From: Dave and Loraine
Topic: 20494 Message: 20514

Hi all,
Transformers vs 'modified sine wave' inverters:
Would someone with the Kenwood 12v DC unit fitted, please scope it's output under load to see what
waveform the Kenwood designer was happy with.

Walt was considering an inverter smoothing filter some time ago. Any news Walt?

73 Dave f4eyk

20515. DFC-230

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-13 21:55:42 UTC
From: Gordon
Topic: 1151 Message: 20515

I have a DFC-230 that has the same segment out on each digit.
Anyone have experience repairing these? I am sure it is a common problem to all digits, just not sure where to dive in. hi hi.

Thanks,
Gordon
N6WK

20516. Drive Reduced

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-14 03:11:57 UTC
From: blacklabpupp
Topic: 20516 Message: 20516

Is it safe to reduce the drive after tuning up to run only 50 watts? When driving an amp or if I only wanted to run 20 watts CW, is this safe. The manual is lacking in alot of areas. How often do you oil or lube the VFO dial? A neighbor told me it was never to be done on Drake line. And he doubted it would ever need it. The files section could use more info on some of these things. Gene

20517. Re: [TS-520_820_530_830] Drive Reduced

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-14 04:55:50 UTC
From: martin
Topic: 20516 Message: 20517

Hi Gene. You use the Carrier (CAR) control to reduce drive in CW.
The mic gain is used in SSB. Do not use the Drive control to reduce
power. The VFO has gears and bearings. They only need to be
lubricated if there is a problem, such as the VFO knob does not turn
smoothly, or is hard to turn. It should turn easily and smoothly from
end to end.

TTYL

blacklabpupp wrote:
> Is it safe to reduce the drive after tuning up to run only 50
> watts? When driving an amp or if I only wanted to run 20 watts CW,
> is this safe. The manual is lacking in alot of areas. How often do
> you oil or lube the VFO dial? A neighbor told me it was never to be
> done on Drake line. And he doubted it would ever need it. The files
> section could use more info on some of these things. Gene
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

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20518. Re: [TS-520_820_530_830] DFC-230

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-14 06:09:00 UTC
From: Lou Blasco
Topic: 1151 Message: 20518

Hi Gordon,

Sounds like a typical display multiplexer problem. Check the display driver chip IC16 (74LS247). One of the output lines will be permanently high or you've got an open current limit resistor. Worst case (but unlikely) you'll have a faulty display unit D13.

You can find a service manual here. The circuit is not too clear but on page 7 and 8 there's a good description of the display driver and pinouts for IC16 and the display unit D13.

http://www.radioamateur.eu/schemi/Kenwood_DFC230_serv_WA0KKE.pdf

User manual here.

http://www.radioamateur.eu/schemi/Kenwood_DFC230_user_WA0KKE.pdf

Lou
VK3ALB

At 08:55 14/03/2009, you wrote:
>I have a DFC-230 that has the same segment out on each digit.
>Anyone have experience repairing these? I am sure it is a common
>problem to all digits, just not sure where to dive in. hi hi.
>
>Thanks,
>Gordon
>N6WK

20519. OT WTB: Atlas -210x 215x

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-14 06:24:29 UTC
From: Howard Weinstein
Topic: 20519 Message: 20519

Gang,

Please excuse me for mentioning a vintage solid state rig here but I know there are those of you who are familiar with the Atlas series of transceivers manufactured by Herb Johnson 30 some years ago.

I am going to be spending a lot of time in the mobile over the next few months between PA and MA. It's about a 250 mile run every two weeks so I'll have lots "of on-the-air" time.

I want to procure an Atlas-210x or Atlas-215x HF transceiver for mobile operations. Any and all accessories will be considered, especially a microphone.

Tnx es 72/73 de Howard K3HW

20520. Re: [TS-520_820_530_830] Drive Reduced

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-14 11:29:09 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20516 Message: 20520

On Fri, 2009-03-13 at 23:55 -0500, martin wrote:
> Hi Gene. You use the Carrier (CAR) control to reduce drive in CW.
> The mic gain is used in SSB. Do not use the Drive control to reduce
> power. The VFO has gears and bearings. They only need to be
> lubricated if there is a problem, such as the VFO knob does not turn
> smoothly, or is hard to turn. It should turn easily and smoothly from
> end to end.

If you want to reduce transmit power on SSB, there's a little trick you can do involving biasing the ALC line with a 9-volt battery and a couple of resistors. This is a better idea than reducing the mike gain, because you're reducing the gain of the output stage and keeping nice deep modulation. If you reduce the modulation to reduce power then you've still got all the noise and carrier bleed, and less wanted signal shouting over the top ;-) Have a look here:

http://www.eham.net/forums/BoatAnchors/1455

If your VFO dial is notchy, check that the bearing cap hasn't been overtightened - it's not as horrible a job as you'd think to get at, involving taking all the knobs and the plastic fascia off. I don't think there's quite enough room to get at it with just the VFO knob off. It's great if you want to give all the knobs and panel a good clean, while you're in there.

When I got my TS-520 the tuning dial was very notchy, and felt like it had crud between the gear teeth. Careful inspection with a mirror and penlight torch showed that they all looked pretty clean, but easing off the bearing cap on the slow motion drive freed it up nicely. It needed about 2mm of movement to go from binding quite badly to being a bit too loose and rattly, so be very gentle with it. Have you ever set the head bearings on a bike? Same idea - a tiny fraction overtightened and you're exerting tonnes of pressure on the bearing.

Gordon

20521. Re: Drive Reduced

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-14 07:12:29 UTC
From: blacklabpupp
Topic: 20516 Message: 20521

Thanks for the advice. I would have made a big mistake going about it the wrong way. I have learned something here every day. Thanks again for that advice Gene

--- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@...> wrote:
>
> Hi Gene. You use the Carrier (CAR) control to reduce drive in CW.
> The mic gain is used in SSB. Do not use the Drive control to reduce
> power. The VFO has gears and bearings. They only need to be
> lubricated if there is a problem, such as the VFO knob does not turn
> smoothly, or is hard to turn. It should turn easily and smoothly from
> end to end.
>

20522. TS-830 no power on SSB

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-14 17:18:48 UTC
From: waterfield55
Topic: 20522 Message: 20522

I am new to this 830.
It tunes up just fine (using K4EAA procedure). When I switch to USB or LSB I have NO power. I have read all the post about it here and tried all those things. I know the mic (MC-30S)is working, it will trip the VOX. I checked the proc switch and it too appears to be ok. Put the unit into CW and I have full power. I only have a dipole cut for 20 meters so I have not checked it on other bands.

Ah yes the newbies strike again!

Bob
KD8HZC

20523. Leaving the group

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-14 17:48:10 UTC
From: John A
Topic: 20523 Message: 20523

Well it looks like I will be leaving the group. I lost my barn in a fire this week in the early morning hours. We think it was a lightning hit that started it. Anyway, most of my station was in my shop in the lower level of the barn, including my beloved TS-520S. I also lost my Yaesu FT-101E and late FT-101ZD, two old tube amps, my big power supply, several D104 mikes, antenna switch, cantenna, and my meters and test equipment. In fact the only Kenwood gear I have left is my TS-700 which I know is OT for this group. I am now HF radio-less entirely. And of course I also lost a 50 year collection of tools and shop equipment, three motorcycles, and my wife's car that I had in the shop to work on. The barn actually belonged to my aunt, so I had no insurance on the building, and my homeowners won't cover most of what was there including my ham gear.
I just want to say thanks for having me. I have enjoyed my time here, and have learned a lot.
73's
John

20524. TS-830S blows fuse when heater switch is turned on

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-14 17:28:26 UTC
From: George
Topic: 20524 Message: 20524

Hi, I just joined this group. I traded an amp for a clean TS-830S with matching antenna tuner, speaker and desk microphone.

The TS-830S is beautiful and I love the receiver but when I turned on the "heater" switch the day it arrived, after letting it warm up to room temperature for half a day, the S-meter light seemed to dim a little and about three minutes later the radio went dead. It blew the 6 amp fuse.

When I first turned the transceiver on I smelled something, almost like a burning odor but it went away after a couple of minutes. When I turned on the heater switch I got the same odor for a couple of minutes, but no smoke was seen.

I opened the radio up and found no damage I could see. The original odor came from the speaker vents on the top of the cabinet near the Load and Plate controls. Opening the radio I saw the 12BY7 tube in that location so I replaced it with a new one.

I'm not going to turn on the heater switch again until I can have a tech look at the TS-830S but does anyone have any suggestions about what may have caused the fuse to blow?

The ham I traded with said the radio had worked great in February, the last time he used it. It was shipped really well protected with layers of bubble wrap and there was no evidence of any damage to the outside box.

Thanks!

20525. Re: [TS-520_820_530_830] DFC-230

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-14 18:09:33 UTC
From: N6WK
Topic: 1151 Message: 20525

Hi Lou,
Thanks for the Info. That is just the kind of info I was looking for.
I will dig into the DFC-230 and report back what I discover.
I have a very clear copy of the service and user manuals here.
thanks again,
73,
Gordon
N6WK

Lou Blasco wrote:
>
> Hi Gordon,
>
> Sounds like a typical display multiplexer problem. Check the display
> driver chip IC16 (74LS247). One of the output lines will be
> permanently high or you've got an open current limit resistor. Worst
> case (but unlikely) you'll have a faulty display unit D13.
>
> You can find a service manual here. The circuit is not too clear but
> on page 7 and 8 there's a good description of the display driver and
> pinouts for IC16 and the display unit D13.
>
> http://www.radioamateur.eu/schemi/Kenwood_DFC230_serv_WA0KKE.pdf
> <http://www.radioamateur.eu/schemi/Kenwood_DFC230_serv_WA0KKE.pdf>
>
> User manual here.
>
> http://www.radioamateur.eu/schemi/Kenwood_DFC230_user_WA0KKE.pdf
> <http://www.radioamateur.eu/schemi/Kenwood_DFC230_user_WA0KKE.pdf>
>
> Lou
> VK3ALB
>
> At 08:55 14/03/2009, you wrote:
> >I have a DFC-230 that has the same segment out on each digit.
> >Anyone have experience repairing these? I am sure it is a common
> >problem to all digits, just not sure where to dive in. hi hi.
> >
> >Thanks,
> >Gordon
> >N6WK
>
>

20526. Re: [TS-520_820_530_830] Leaving the group

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-14 18:29:48 UTC
From: Sulaiman Abdullah
Topic: 20523 Message: 20526

What a bummer !
Hope you recover, financially and emotionally.
73's .....Sulaiman

----- Original Message -----
From: John A
To: ts-520_820_530_830@yahoogroups.com
Sent: Saturday, March 14, 2009 5:48 PM
Subject: [TS-520_820_530_830] Leaving the group

Well it looks like I will be leaving the group. I lost my barn in a fire this week in the early morning hours. We think it was a lightning hit that started it. Anyway, most of my station was in my shop in the lower level of the barn, including my beloved TS-520S. I also lost my Yaesu FT-101E and late FT-101ZD, two old tube amps, my big power supply, several D104 mikes, antenna switch, cantenna, and my meters and test equipment. In fact the only Kenwood gear I have left is my TS-700 which I know is OT for this group. I am now HF radio-less entirely. And of course I also lost a 50 year collection of tools and shop equipment, three motorcycles, and my wife's car that I had in the shop to work on. The barn actually belonged to my aunt, so I had no insurance on the building, and my homeowners won't cover most of what was there including my ham gear.
I just want to say thanks for having me. I have enjoyed my time here, and have learned a lot.
73's
John

[Non-text portions of this message have been removed]

20527. Re: TS-830S blows fuse when heater switch is turned on

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-14 19:22:18 UTC
From: Wim Penders
Topic: 20524 Message: 20527

Have a look on the coupling condenser between the 12BY7A driver and the finals (C01, 100pf final unit). If it leaks, the finals grids are going positive,and the tubes will overload by the resulting high current.
Eventually the fuse blows, but it can also kill your transformer, and then you are in real trouble.

Hope it is just that,

73, Wim PA0PGA

--- In TS-520_820_530_830@yahoogroups.com, "George" <w0xs@...> wrote:
>
> Hi, I just joined this group. I traded an amp for a clean TS-830S with matching antenna tuner, speaker and desk microphone.
>
> The TS-830S is beautiful and I love the receiver but when I turned on the "heater" switch the day it arrived, after letting it warm up to room temperature for half a day, the S-meter light seemed to dim a little and about three minutes later the radio went dead. It blew the 6 amp fuse.
>
> When I first turned the transceiver on I smelled something, almost like a burning odor but it went away after a couple of minutes. When I turned on the heater switch I got the same odor for a couple of minutes, but no smoke was seen.
>
> I opened the radio up and found no damage I could see. The original odor came from the speaker vents on the top of the cabinet near the Load and Plate controls. Opening the radio I saw the 12BY7 tube in that location so I replaced it with a new one.
>
> I'm not going to turn on the heater switch again until I can have a tech look at the TS-830S but does anyone have any suggestions about what may have caused the fuse to blow?
>
> The ham I traded with said the radio had worked great in February, the last time he used it. It was shipped really well protected with layers of bubble wrap and there was no evidence of any damage to the outside box.
>
> Thanks!
>

20528. Re: [TS-520_820_530_830] Leaving the group

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-14 20:03:04 UTC
From: Ron Pearson
Topic: 20523 Message: 20528

John... That's terrible. My thoughts are with you brother. Good luck...
Ron/W5RCP

100% CW, 100% of the Time
Fists#6259 & cc#1775, ARS#1799, FP#1047, NAQCC#483, SKCC#2922,
QRP-ARCI#13328, Houston QRP Club, HQRP Fists#11025, KCARC/Abilene, Zombie#839

From: John A <john@...>
To: ts-520_820_530_830@yahoogroups.com
Sent: Saturday, March 14, 2009 12:48:10 PM
Subject: [TS-520_820_530_830] Leaving the group

Well it looks like I will be leaving the group. I lost my barn in a
fire this week in the early morning hours. We think it was a
lightning hit that started it. Anyway, most of my station was in my
shop in the lower level of the barn, including my beloved TS-520S. I
also lost my Yaesu FT-101E and late FT-101ZD, two old tube amps, my
big power supply, several D104 mikes, antenna switch, cantenna, and
my meters and test equipment. In fact the only Kenwood gear I have
left is my TS-700 which I know is OT for this group. I am now HF
radio-less entirely. And of course I also lost a 50 year collection
of tools and shop equipment, three motorcycles, and my wife's car
that I had in the shop to work on. The barn actually belonged to my
aunt, so I had no insurance on the building, and my homeowners won't
cover most of what was there including my ham gear.
I just want to say thanks for having me. I have enjoyed my time here,
and have learned a lot.
73's
John

Yahoo! Groups Links

[Non-text portions of this message have been removed]

20529. Re: [TS-520_820_530_830] Leaving the group

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-14 20:10:33 UTC
From: Bob
Topic: 20523 Message: 20529

Hi John,

Wow, you sustained quite a carnage of amateur goods; I'm sure it's devastating. I'm sure I can speak for all here in offering condolences...it's much like a death in the family. I'm so sorry to hear about your tragedy.

I don't know if it's the right time now to say it, but if you need, I have a TS-520 I'd be willing to let go of for you...if yer interested. Maybe this would help you start a new station using a nice vintage radio. Let me know if yer interested. Most of all, sorry to hear of yer losses.

73,

Bob, KD5MHQ

--- On Sat, 3/14/09, John A <john@...> wrote:

Well it looks like I will be leaving the group. I lost my barn in a
fire this week in the early morning hours. We think it was a
lightning hit that started it. Anyway, most of my station was in my
shop in the lower level of the barn, including my beloved TS-520S. I
also lost my Yaesu FT-101E and late FT-101ZD, two old tube amps, my
big power supply, several D104 mikes, antenna switch, cantenna, and
my meters and test equipment. In fact the only Kenwood gear I have
left is my TS-700 which I know is OT for this group. I am now HF
radio-less entirely. And of course I also lost a 50 year collection
of tools and shop equipment, three motorcycles, and my wife's car
that I had in the shop to work on. The barn actually belonged to my
aunt, so I had no insurance on the building, and my homeowners won't
cover most of what was there including my ham gear.
I just want to say thanks for having me. I have enjoyed my time here,
and have learned a lot.
73's
John

20530. Re: TS-830S blows fuse when heater switch is turned on

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-14 21:43:42 UTC
From: w5rkl
Topic: 20524 Message: 20530

How long after the heater switch was turned on did it take for the dial lamps to dim?

If the lamps dim after 5 to 15 seconds or so then I suspect a problem in the bias supply, blown diode, shorted capacitors, or both.

Check the final amplifier's cathode resistors, there's 4 of them all are 20 ohm 1/2 watt. Since you smelled something burning, I would check those resistors. They will burn up and causes you to smell them burning/overheating if high current flows through the final tubes, higher than normal. High current flow through the tubes in receive can be caused by shorts in the tube or a failed bias supply.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Wim Penders" <wpenders@...> wrote:
>
> Have a look on the coupling condenser between the 12BY7A driver and the finals (C01, 100pf final unit). If it leaks, the finals grids are going positive,and the tubes will overload by the resulting high current.
> Eventually the fuse blows, but it can also kill your transformer, and then you are in real trouble.
>
> Hope it is just that,
>
> 73, Wim PA0PGA
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "George" <w0xs@> wrote:
> >
> > Hi, I just joined this group. I traded an amp for a clean TS-830S with matching antenna tuner, speaker and desk microphone.
> >
> > The TS-830S is beautiful and I love the receiver but when I turned on the "heater" switch the day it arrived, after letting it warm up to room temperature for half a day, the S-meter light seemed to dim a little and about three minutes later the radio went dead. It blew the 6 amp fuse.
> >
> > When I first turned the transceiver on I smelled something, almost like a burning odor but it went away after a couple of minutes. When I turned on the heater switch I got the same odor for a couple of minutes, but no smoke was seen.
> >
> > I opened the radio up and found no damage I could see. The original odor came from the speaker vents on the top of the cabinet near the Load and Plate controls. Opening the radio

I saw the 12BY7 tube in that location so I replaced it with a new one.
> >
> > I'm not going to turn on the heater switch again until I can have a tech look at the TS-830S but does anyone have any suggestions about what may have caused the fuse to blow?
> >
> > The ham I traded with said the radio had worked great in February, the last time he used it. It was shipped really well protected with layers of bubble wrap and there was no evidence of any damage to the outside box.
> >
> > Thanks!
> >
>

20531. Re: [TS-520_820_530_830] Leaving the group

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-14 22:15:36 UTC
From: Chris and Alex
Topic: 20523 Message: 20531

I'm sure we all feel gutted by this but it's early days so stay for
now and see what tomorrow brings. Ham radio is a good community and
worth sticking with and the main thing is no one was hurt.
Chris

2009/3/14 Sulaiman Abdullah <
labd@...>:
> What a bummer !
> Hope you recover, financially and emotionally.
> 73's .....Sulaiman
>
> ----- Original Message -----
> From: John A
> To: ts-520_820_530_830@yahoogroups.com
> Sent: Saturday, March 14, 2009 5:48 PM
> Subject: [TS-520_820_530_830] Leaving the group
>
> Well it looks like I will be leaving the group. I lost my barn in a
> fire this week in the early morning hours. We think it was a
> lightning hit that started it. Anyway, most of my station was in my
> shop in the lower level of the barn, including my beloved TS-520S. I
> also lost my Yaesu FT-101E and late FT-101ZD, two old tube amps, my
> big power supply, several D104 mikes, antenna switch, cantenna, and
> my meters and test equipment. In fact the only Kenwood gear I have
> left is my TS-700 which I know is OT for this group. I am now HF
> radio-less entirely. And of course I also lost a 50 year collection
> of tools and shop equipment, three motorcycles, and my wife's car
> that I had in the shop to work on. The barn actually belonged to my
> aunt, so I had no insurance on the building, and my homeowners won't
> cover most of what was there including my ham gear.
> I just want to say thanks for having me. I have enjoyed my time here,
> and have learned a lot.
> 73's
> John
>
> [Non-text portions of this message have been removed]
>
>

20532. Re: [TS-520_820_530_830] Leaving the group

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-15 00:10:16 UTC
From: Howard Weinstein
Topic: 20523 Message: 20532

John,

Things will get better. No one was hurt or injured Thank God.

This is an intelligent and compassionate group. Do not leave us. I'm sure that we can help you rebuild your Ham Station. I'm sure that I can part with a few pieces of gear. I see that you already have an offer of a TS-520. Accept it. When you can - pay it forward...

73 de Howard K3HW

PS - what is your call???

--- On Sat, 3/14/09, John A <> wrote:

> From: John A <john@...>
> Subject: [TS-520_820_530_830] Leaving the group
> To: ts-520_820_530_830@yahoogroups.com
> Date: Saturday, March 14, 2009, 1:48 PM
> Well it looks like I will be leaving the group. I lost my
> barn in a
> fire this week in the early morning hours. We think it was
> a
> lightning hit that started it. Anyway, most of my station
> was in my
> shop in the lower level of the barn, including my beloved
> TS-520S. I
> also lost my Yaesu FT-101E and late FT-101ZD, two old tube
> amps, my
> big power supply, several D104 mikes, antenna switch,
> cantenna, and
> my meters and test equipment. In fact the only Kenwood gear
> I have
> left is my TS-700 which I know is OT for this group. I am
> now HF
> radio-less entirely. And of course I also lost a 50 year
> collection
> of tools and shop equipment, three motorcycles, and my
> wife's car
> that I had in the shop to work on. The barn actually
> belonged to my
> aunt, so I had no insurance on the building, and my
> homeowners won't
> cover most of what was there including my ham gear.
> I just want to say thanks for having me. I have enjoyed my
> time here,
> and have learned a lot.

> 73's
> John

20533. DG-5

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-15 00:49:33 UTC
From: fc4131@aol.com
Topic: 20533 Message: 20533

Can anyone tell me of a kit form of the digital readout. I have a TS-520.

kc0ysh
Frank
**********Need a job? Find employment help in your area.
(http://yellowpages.aol.com/search?query=employment_agencies&ncid=emlcntusyelp00000005)

[Non-text portions of this message have been removed]

20534. Re: [TS-520_820_530_830] Leaving the group

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-15 01:10:49 UTC
From: Erwin Haynes
Topic: 20523 Message: 20534

I agree whole-heartledly with Howard, I also can help out with station components, just let me know what you need and will see what I can do....
 Erwin
KI4TBD
Canton, GA, USA
"Join the DARC side! Deutscher Amateur Radio Club!"

From: Howard Weinstein <k3hw@yahoo.com>
To: ts-520_820_530_830@yahoogroups.com; john@...
Sent: Saturday, March 14, 2009 8:10:16 PM
Subject: Re: [TS-520_820_530_830] Leaving the group

John,

Things will get better. No one was hurt or injured Thank God.

This is an intelligent and compassionate group. Do not leave us. I'm sure that we can help you rebuild your Ham Station. I'm sure that I can part with a few pieces of gear. I see that you already have an offer of a TS-520. Accept it. When you can - pay it forward...

73 de Howard K3HW

PS - what is your call???

--- On Sat, 3/14/09, John A <> wrote:

> From: John A <john@jaservices. us>
> Subject: [TS-520_820_ 530_830] Leaving the group
> To: ts-520_820_530_ 830@yahoogroups. com
> Date: Saturday, March 14, 2009, 1:48 PM
> Well it looks like I will be leaving the group. I lost my
> barn in a
> fire this week in the early morning hours. We think it was
> a
> lightning hit that started it. Anyway, most of my station
> was in my
> shop in the lower level of the barn, including my beloved
> TS-520S. I
> also lost my Yaesu FT-101E and late FT-101ZD, two old tube
> amps, my
> big power supply, several D104 mikes, antenna switch,
> cantenna, and
> my meters and test equipment. In fact the only Kenwood gear
> I have
> left is my TS-700 which I know is OT for this group. I am
> now HF

> radio-less entirely. And of course I also lost a 50 year
> collection
> of tools and shop equipment, three motorcycles, and my
> wife's car
> that I had in the shop to work on. The barn actually
> belonged to my
> aunt, so I had no insurance on the building, and my
> homeowners won't
> cover most of what was there including my ham gear.
> I just want to say thanks for having me. I have enjoyed my
> time here,
> and have learned a lot.
> 73's
> John

[Non-text portions of this message have been removed]

20535. Re: [TS-520_820_530_830] DG-5

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-15 02:48:27 UTC
From: vlincoln
Topic: 20533 Message: 20535

At 00:49 3/15/2009, you wrote:

>Can anyone tell me of a kit form of the digital readout. I have a TS-520.

Kenwood TS-520/S/SE DFD2-520 C-520 DFD3
http://www.aade.com/#c

>kc0ysh
>Frank
>**********Need a job? Find employment help in your area.
>(<http://yellowpages.aol.com/search?query=employment_agencies&ncid=emlcntusyelp00000005>h
ttp://yellowpages.aol.com/search?query=employment_agencies&ncid=emlcntusyelp00000005)
>
>[Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

20536. Possible receive problems on TS-520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-15 02:51:41 UTC
From: Michael
Topic: 20536 Message: 20536

Hello to the Group,

I think I may have possible Mosfet receive problems on my Kenwood TS-520S. When I first got this radio about 2 months ago. On the volume control once in a while it would really get statically and I would turn the volume back and forth, and the good receive would just come back so I found another control and installed it and while I was inside the radio, I took contact cleaner and cleaned all the contacts associated with the Band selector switch along with many other contacts. Well today I put the radio back up on the desk, When I turned it on the static on the volume control was gone but the receive on the radio isnt what it was not near the signal strenght on some stations like I was getting, I can hear them but nothing like it was. Could it be a Bad Mosfet.

Any Ideas,

Thanks
ki0gv
Mike

20537. TS-820 Digital Readout

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-15 03:57:33 UTC
From: jsloss
Topic: 20537 Message: 20537

My 820S's counter struggles to show 15.000 when the set is exactly zero beat w/ WWV. Adjusting TC-1 on the counter mixer board gets it close but not "right on". Another counter module I have works precisely as it should.

The 1 MHz crystal cannot be brought to exactly 1 MHz by the adjustment of TC-1 which is in parallel w/ C-47 - 22 pf per the Service Manual. My correctly working counter has a 56 pf cap for C-47 as does the struggling counter. The crystal most likely has changed frequency slightly over the decades!

I envision trying several values for C-47 until I hit on a value that will tune the 1 MHz crystal correctly. BUT.....before I try this I thought I'd check with the group for ideas that may shorten this troubleshooting episode,

Thanks

Joe k7mks

[Non-text portions of this message have been removed]

20538. Re: [TS-520_820_530_830] Leaving the group

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-15 04:27:24 UTC
From: Ruben Echevarria
Topic: 20523 Message: 20538

This has to be the BEST group in Amateur Radio !!!!
Unfortunately I can't offer anything. Don't have any extras.
Hats off to those that can......
 Ruben Echevarria KA2HHB
SKCC #2132 EPC#3390 070 Club#861
10-10 International Club #33308
30Meter Digital Group #1148

_____
From: Erwin Haynes <ki4tbd@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, March 14, 2009 9:10:49 PM
Subject: Re: [TS-520_820_530_830] Leaving the group

I agree whole-heartledly with Howard, I also can help out with station components, just let me know what you need and will see what I can do....
 Erwin
KI4TBD
Canton, GA, USA
"Join the DARC side! Deutscher Amateur Radio Club!"

_____
From: Howard Weinstein <k3hw@...>
To: ts-520_820_530_ 830@yahoogroups. com; john@jaservices. us
Sent: Saturday, March 14, 2009 8:10:16 PM
Subject: Re: [TS-520_820_ 530_830] Leaving the group

John,

Things will get better. No one was hurt or injured Thank God.

This is an intelligent and compassionate group. Do not leave us. I'm sure that we can help you rebuild your Ham Station. I'm sure that I can part with a few pieces of gear. I see that you already have an offer of a TS-520. Accept it. When you can - pay it forward...

73 de Howard K3HW

PS - what is your call???

--- On Sat, 3/14/09, John A <> wrote:

> From: John A <john@jaservices. us>
> Subject: [TS-520_820_ 530_830] Leaving the group
> To: ts-520_820_530_ 830@yahoogroups. com
> Date: Saturday, March 14, 2009, 1:48 PM
> Well it looks like I will be leaving the group. I lost my
> barn in a

> fire this week in the early morning hours. We think it was
> a
> lightning hit that started it. Anyway, most of my station
> was in my
> shop in the lower level of the barn, including my beloved
> TS-520S. I
> also lost my Yaesu FT-101E and late FT-101ZD, two old tube
> amps, my
> big power supply, several D104 mikes, antenna switch,
> cantenna, and
> my meters and test equipment. In fact the only Kenwood gear
> I have
> left is my TS-700 which I know is OT for this group. I am
> now HF
> radio-less entirely. And of course I also lost a 50 year
> collection
> of tools and shop equipment, three motorcycles, and my
> wife's car
> that I had in the shop to work on. The barn actually
> belonged to my
> aunt, so I had no insurance on the building, and my
> homeowners won't
> cover most of what was there including my ham gear.
> I just want to say thanks for having me. I have enjoyed my
> time here,
> and have learned a lot.
> 73's
> John

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

20539. TS-520S Counter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-15 04:43:04 UTC
From: jsloss
Topic: 20539 Message: 20539

Further to my last:

With C-47 removed from the circuit with TC-1I can only get the counter to read 15.003 at zero beat. It is becoming more likely that the 1 MHz crystal has drifted too far to bring back into frequency with TC-1 etc.
Any small 1MHz crystals out there?

Joe k7mks

[Non-text portions of this message have been removed]

20540. Kenwood Ts 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-15 04:47:40 UTC
From: kc8pxs618
Topic: 20540 Message: 20540

I have no receive on any band. I do have tx with audio. Any help would great. Thanks Marcus AB8WR

20541. Re: Possible receive problems on TS-520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-15 05:27:31 UTC
From: sv0xbq
Topic: 20536 Message: 20541

Band conditions have been very variable here recently. One day I can get VK's and the States easily and the next there's just nothing there so it could just be a bad day. If it is the set I'd look at where you've been. I'd give the band switches a good "wash" with contact cleaner first and then finish with a light spray of contact cleaner with lube. Does the signal strength peak with the drive at 12 o'clock? The is lots on here about checking the alignment.
Chris

--- In TS-520_820_530_830@yahoogroups.com, "Michael" <ki0gv@...> wrote:
>
> Hello to the Group,
>
> I think I may have possible Mosfet receive problems on my Kenwood TS-520S. When I first got this radio about 2 months ago. On the volume control once in a while it would really get statically and I would turn the volume back and forth, and the good receive would just come back so I found another control and installed it and while I was inside the radio, I took contact cleaner and cleaned all the contacts associated with the Band selector switch along with many other contacts. Well today I put the radio back up on the desk, When I turned it on the static on the volume control was gone but the receive on the radio isnt what it was not near the signal strenght on some stations like I was getting, I can hear them but nothing like it was. Could it be a Bad Mosfet.
>
> Any Ideas,
>
> Thanks
> ki0gv
> Mike
>

20542. Re: [TS-520_820_530_830] Kenwood Ts 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-15 13:28:23 UTC
From: Dave Gmail
Topic: 20540 Message: 20542

check to see if the rf gain control has been turned the wrong direction,
where is the meter needle, left side or right side

----- Original Message -----
From: "kc8pxs618" <kc8pxs618@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, March 15, 2009 12:47 AM
Subject: [TS-520_820_530_830] Kenwood Ts 520s

> I have no receive on any band. I do have tx with audio. Any help would
> great. Thanks Marcus AB8WR
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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20543. Re: Kenwood Ts 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-15 15:54:49 UTC
From: w5rkl
Topic: 20540 Message: 20543

How strong is the 520's calibrator signal?

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "kc8pxs618" <kc8pxs618@...> wrote:
>
> I have no receive on any band. I do have tx with audio. Any help would great. Thanks
Marcus AB8WR
>

20544. TS-530S& AT 120 tuner /procedures to tune

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-15 16:10:55 UTC
From: Mic
Topic: 20544 Message: 20544

Antennas are Cushcraft R7 on roof top (25' height), Shorten windom at 20' height with balum, and 20-10 meter diplole at 20'(windom and dipole both slop from 20' to 17' where they are tied off in a tree .Question:what is proper sequence for tuning: tune the 530S first then tune up the antenna? Or tune the antenna first,then the 530? I try it both ways, but after tuning the antenna last, I noticed my last meter setting on the 530 changes, (my last tune up process on the 530 is trying to get 225 ma target).I also have an AT-11 auto tuner that's not in use.Use that instead of the AT-120?
Thanks for the help.
WA3HDQ, Mike, York Pa.

20545. Re: kenwood 820-s problem.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-15 17:05:48 UTC
From: dave
Topic: 20493 Message: 20545

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Check the "DH" button below the meters switch. IF it's pushed in, this will happen.
>
> 73
> Mike
> W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "dave" <doc_924@> wrote:
> >
> > --- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@> wrote:
> > >
> > > Dave,
> > > Did you knock the 9 Pin plug out of the EXT VFO connector?
> > >
> > > Gordon
> > >
> > > dave wrote:
> > > >
> > > > Good Day everyone,..I have a kenwood 82o-s that im having a problem
> > > > with. One day in the room here i was working on another rig when, i
> > > > pulled antenna coax from the kenwood to test the other rig. while i
> > > > was keying the other rig, my breaker to my room tripped..I went and
> > > > reset the breaker and, on way back to room stopped to pour cup of
> > > > coffee. When i got back i went to hook antenna coax back to the
> > > > kenwood when i noticed that the digital display was out. The meter
> > > > stayed lit and i have a little air noise but, no tx or rx now. im not
> > > > sure it was the kenwood that tripped the breaker but, when i had coax
> > > > off the rig i did leave the tubes lit because, i assumed i would have
> > > > coax off only for short time. I really really love this rig and, im
> > > > hoping its in the low voltage supply somewhere but, i need to find out
> > > > where. Any help will be greatly appreciated as, i sure miss the big
> > > > guy sitting there on my bench cranking out some of the best audio i
> > > > ever heard in any rig.
> > > >
> > > > Thank you for your time,
> > > >
> > > > Dave.
> > > >
> > > >Hi Gordon,..Now go figgure...i read your question and knew that i did not knock the 9 pin plug out of the socket on back but, before i answered you i picked up the rig and checked. It was still plugged in socket but kinda loose a bit so, i pushed it in harder a bit and, fired up the rig and, it works !! Thank you for your suggestion because, i never would have suspect the 9 pin connecter since it was still plugged in the socket. I am a

happy camper now lol. Also on this rig, my 2nd segment on display is out. instead of reading 7.250 it reads .250 or, instead of 29.305, it reads 2 .305 im told its just ground prob or something. you ever run into this problem? Anyways, thanx again for your help. Im going to go hook it up now and enjoy. Have a great day.
> >
> >
> >
> > Dave.
> > >
> >
> Ido not have the dh button pushed in but, i have been told by few ppl that i have to pull the readout out of the rig and open it up and, clean around board where grounds meet. guess its common prob with this model rig. Plus, i found and downloaded service bullitins on the 820 that states same thing among other things that need attention. (i would be glad to upload it here if needed for anyone else). Anyway, thanks mike for your suggestion i appreciate it. Also, yesterday i scored a trio 520x that was given to me. found it dosent light up. and, upon opening up the top i found tubes gone and power transformer secondary leads disconnected. my heart sank a little but, not giving up hope. its nice looking rig but, its going to sit till i can get time to look at it. have a great day to all in the group.

Dave.

20546. Re: [TS-520_820_530_830] TS-530S& AT 120 tuner /procedures to tune

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-15 18:11:00 UTC
From: Dave Gmail
Topic: 20544 Message: 20546

as far as I know, tune the radio to a dummy load first, then tune the tuner for antenna to radio..... that way you know you radio is full output to 50 ohm load...

----- Original Message -----
From: "Mic" <ryder883@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, March 15, 2009 12:10 PM
Subject: [TS-520_820_530_830] TS-530S& AT 120 tuner /procedures to tune

> Antennas are Cushcraft R7 on roof top (25' height), Shorten windom at 20'
> height with balum, and 20-10 meter diplole at 20'(windom and dipole both
> slop from 20' to 17' where they are tied off in a tree .Question:what is
> proper sequence for tuning: tune the 530S first then tune up the antenna?
> Or tune the antenna first,then the 530? I try it both ways, but after
> tuning the antenna last, I noticed my last meter setting on the 530
> changes, (my last tune up process on the 530 is trying to get 225 ma
> target).I also have an AT-11 auto tuner that's not in use.Use that instead
> of the AT-120?
> Thanks for the help.
> WA3HDQ, Mike, York Pa.
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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20547. [Fwd: FOR SALE Kenwood 530SP and Sure Desk Mike]

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-15 19:16:39 UTC
From: Ed Fargo
Topic: 20547 Message: 20547

Hello All.

Time to make one shack instead of the two so the 530SP is up for sale.

It is in Excellent working condition . Cosmetically, it is looking great
with a only a few scratches on the paint.

$350 Plus actual shipping. It also comes with a
Shure 550L Desk Mike.

Please contact me if you have any questions.

Please forward this to any interested parties.

Thanks
Ed
N4ENT

[Non-text portions of this message have been removed]

20548. TS-820S Counter - Correction

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-15 20:42:08 UTC
From: jsloss
Topic: 20548 Message: 20548

Further to my previous - I need a 10 MHz crystal, not 1 MHZ as stated, for my 820S's digital counter.

Thanks,

Joe k7mks

[Non-text portions of this message have been removed]

20549. Re: [TS-520_820_530_830] TS-820S Counter - Correction

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-15 21:21:22 UTC
From: Don Thomas
Topic: 20548 Message: 20549

Maybe could add small pf cap in series or parallel to pull the crystal back into range. Just a thought.

Don T.

--- On Sun, 3/15/09, jsloss <k7mks@...> wrote:

From: jsloss <k7mks@...>
Subject: [TS-520_820_530_830] TS-820S Counter - Correction
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, March 15, 2009, 3:42 PM

Further to my previous - I need a 10 MHz crystal, not 1 MHZ as stated, for my 820S's digital counter.

Thanks,

Joe k7mks

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

20550. Re: [TS-520_820_530_830] Re: Kenwood Ts 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-15 22:18:09 UTC
From: Michael
Topic: 20540 Message: 20550

Mike,

If you are replying to my message about low signal, but could receive. When I turn the 25 khz on, Then the meter goes about 3/4 of the way up after tuning the drive stage. But the receive is'nt as strong as it was before.

Thanks
ki0gv
Mike

--- On Sun, 3/15/09, w5rkl <w5rkl@yahoo.com> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: Kenwood Ts 520s
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, March 15, 2009, 10:54 AM

How strong is the 520's calibrator signal?

73
Mike
W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, "kc8pxs618" <kc8pxs618@. ..> wrote:
>
> I have no receive on any band. I do have tx with audio. Any help would great. Thanks
Marcus AB8WR
>

[Non-text portions of this message have been removed]

20551. Tuning for Low Power

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-15 23:02:37 UTC
From: Lewis C Lehman
Topic: 20551 Message: 20551

On an TS-820S, after I have tuned for maximum output, how do I safely reduce output power, in case I wanted to try QRP, or to keep from over-driving an amplifier?

20552. Re: [TS-520_820_530_830] Tuning for Low Power

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-16 00:08:29 UTC
From: Kelly Maiden
Topic: 20551 Message: 20552

One of the best ways is to use an external dc source to drive the alc level. I
use a variable power supply to drive pin 6 on the remote connector negative. (the shell is the plus wire in this case) In CW mode you can watch the output power
drop as you increase the alc voltage. Lower it to the desired level and then switch to SSB mode and
you're good to go.

Lewis C Lehman wrote:

> On an TS-820S, after I have tuned for maximum output, how do I safely
> reduce output power, in case I wanted to try QRP, or to keep from
> over-driving an amplifier?
>
>

[Non-text portions of this message have been removed]

20553. Re: [TS-520_820_530_830] DFC-230

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-16 00:35:33 UTC
From: N6WK
Topic: 1151 Message: 20553

Hi Lou,
Exactly what should I be looking for when I check this IC?
I am thinking of just removing it and installing a new one and use a
socket instead of soldering it in.
Any problems doing that that I should be aware of?
I have checked all the current limiting resistors, and they all test fine.

Thanks,
Gordon

Lou Blasco wrote:
>
> Hi Gordon,
>
> Sounds like a typical display multiplexer problem. Check the display
> driver chip IC16 (74LS247). One of the output lines will be
> permanently high or you've got an open current limit resistor. Worst
> case (but unlikely) you'll have a faulty display unit D13.
>
> You can find a service manual here. The circuit is not too clear but
> on page 7 and 8 there's a good description of the display driver and
> pinouts for IC16 and the display unit D13.
>
> http://www.radioamateur.eu/schemi/Kenwood_DFC230_serv_WA0KKE.pdf
> <http://www.radioamateur.eu/schemi/Kenwood_DFC230_serv_WA0KKE.pdf>
>
> User manual here.
>
> http://www.radioamateur.eu/schemi/Kenwood_DFC230_user_WA0KKE.pdf
> <http://www.radioamateur.eu/schemi/Kenwood_DFC230_user_WA0KKE.pdf>
>
> Lou
> VK3ALB
>
> At 08:55 14/03/2009, you wrote:
> >I have a DFC-230 that has the same segment out on each digit.
> >Anyone have experience repairing these? I am sure it is a common
> >problem to all digits, just not sure where to dive in. hi hi.
> >
> >Thanks,
> >Gordon
> >N6WK
>
>

20554. Re: [TS-520_820_530_830] DFC-230

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-16 00:51:29 UTC
From: Lou Blasco
Topic: 1151 Message: 20554

Hi Gordon,

If you can get access to a 'scope or logic probe, check the segment drive lines to the display. You should be able to find the line that's not changing state. Remember of course that you need to select a frequency on the DFC230 that will illuminate the faulty segment. Page 7 & 8 of the service manual will help you identify the correct line. Otherwise you could just go ahead and replace the chip.

Lou
VK3ALB

At 11:35 16/03/2009, you wrote:
>Hi Lou,
> Exactly what should I be looking for when I check this IC?
>I am thinking of just removing it and installing a new one and use a
>socket instead of soldering it in.
>Any problems doing that that I should be aware of?
>I have checked all the current limiting resistors, and they all test fine.
>
>Thanks,
>Gordon

20555. Re: [TS-520_820_530_830] TS-520S Servicing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-16 01:00:49 UTC
From: Sulaiman Abdullah
Topic: 20555 Message: 20555

I have had my TS-520s for a few months now and I'm very pleased with it.
(original valves, full output etc.)
After reading of problems the rig may develop over time
I'm considering some preventive maintenance.
I am by trade an industrial electronics repair engineer so I'm reasonably competent
and have all the required equipment.
I don't intend to re-align anything yet, I just want to ensure the rig keeps going as it
is.

I've read in this forum about the finals cathode resistors possibly increasing resistance
What else should I check?

All suggestions appreciated
Thanks ..Sulaiman 2E0YAH

[Non-text portions of this message have been removed]

20556. Re: [TS-520_820_530_830] Kenwood Ts 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-15 18:31:53 UTC
From: Marucs Rodgers Sr.
Topic: 20540 Message: 20556

The needle is dead center. Thanks Marcus AB8WR

--- On Sun, 3/15/09, Dave Gmail <ve3wej@...> wrote:

From: Dave Gmail <ve3wej@...>
Subject: Re: [TS-520_820_530_830] Kenwood Ts 520s
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, March 15, 2009, 9:28 AM

check to see if the rf gain control has been turned the wrong direction,
where is the meter needle, left side or right side

----- Original Message -----
From: "kc8pxs618" <kc8pxs618@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, March 15, 2009 12:47 AM
Subject: [TS-520_820_530_830] Kenwood Ts 520s

> I have no receive on any band. I do have tx with audio. Any help would
> great. Thanks Marcus AB8WR
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

Yahoo! Groups Links

[Non-text portions of this message have been removed]

20557. Re: [TS-520_820_530_830] TS-530S& AT 120 tuner /procedures to tune

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-15 18:21:46 UTC
From: Aron
Topic: 20544 Message: 20557

Mike,

Here's how I do with my AT-180: (This will probably be applicable to your AT-120)

1) Tune the driver for max noise in the RX - with the antenna
2) Switch over to dummy load on the ATU
3) Dip and load the plate by the book (on dummy). Mic gain/ Carrier - by the book.
4) Switch over to the antenna on the ATU
5) With the ATU meter position in SWR, tune the ATU for least deflection
6) Reconfirm the least deflection once again after calibrating the forward deflection to FSD
7) Switch over the ATU meter to indicate power
8) Touch-up the drive control (TS-530S) for peak o/p

The above procedure looks long but shouldn't take more than 15 to 30 seconds.

The others in the group may have a better method. I'm all ears. ;-))

Cheers and 73,
Aron.

--- On Sun, 3/15/09, Mic <ryder883@...> wrote:

> From: Mic <ryder883@...>
> Subject: [TS-520_820_530_830] TS-530S& AT 120 tuner /procedures to tune
> To: TS-520_820_530_830@yahoogroups.com
> Received: Sunday, March 15, 2009, 4:10 PM
> Antennas are Cushcraft R7 on roof top
> (25' height), Shorten windom at 20' height with balum, and
> 20-10 meter diplole at 20'(windom and dipole both slop from
> 20' to 17' where they are tied off in a tree .Question:what
> is proper sequence for tuning: tune the 530S first then tune
> up the antenna? Or tune the antenna first,then the 530? I
> try it both ways, but after tuning the antenna last, I
> noticed my last meter setting on the 530 changes, (my last
> tune up process on the 530 is trying to get 225 ma target).I
> also have an AT-11 auto tuner that's not in use.Use that
> instead of the AT-120?
> Thanks for the help.
> WA3HDQ, Mike, York Pa.
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links

>
>
>   mailto:TS-520_820_530_830-fullfeatured@yahoogroups.com
>
>
>

Connect with friends from any web browser - no download required.. Try the new Yahoo!
Canada Messenger for the Web BETA at http://ca.messenger.yahoo.com/webmessengerpromo.php

20558. Re: [TS-520_820_530_830] Kenwood Ts 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-15 17:52:35 UTC
From: Marucs Rodgers Sr.
Topic: 20540 Message: 20558

It is not the rf gain. I have no noise at all. I cheched the AVR for 9 volts, band switch an the looked for lose or broken wires. What should i look for next? Thanks Marcus AB8WR

--- On Sun, 3/15/09, Dave Gmail <ve3wej@gmail.com> wrote:

From: Dave Gmail <ve3wej@...>
Subject: Re: [TS-520_820_530_830] Kenwood Ts 520s
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, March 15, 2009, 9:28 AM

check to see if the rf gain control has been turned the wrong direction,
where is the meter needle, left side or right side

----- Original Message -----
From: "kc8pxs618" <kc8pxs618@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, March 15, 2009 12:47 AM
Subject: [TS-520_820_530_830] Kenwood Ts 520s

> I have no receive on any band. I do have tx with audio. Any help would
> great. Thanks Marcus AB8WR
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
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>

Yahoo! Groups Links

[Non-text portions of this message have been removed]

20559. Re: [TS-520_820_530_830] DFC-230

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-16 01:55:55 UTC
From: N6WK
Topic: 1151 Message: 20559

Thanks Lou,
The segment that is out is the (e) segment which is pin 11 on IC16 if I am correct.
Do I check the Cathode (pin 11) or do I check the Anode of each Digit?
I am a newbee when it comes to digital display logics

Lou Blasco wrote:
>
> Hi Gordon,
>
> If you can get access to a 'scope or logic probe, check the segment
> drive lines to the display. You should be able to find the line
> that's not changing state. Remember of course that you need to select
> a frequency on the DFC230 that will illuminate the faulty segment.
> Page 7 & 8 of the service manual will help you identify the correct
> line. Otherwise you could just go ahead and replace the chip.
>
> Lou
> VK3ALB
>
> At 11:35 16/03/2009, you wrote:
> >Hi Lou,
> > Exactly what should I be looking for when I check this IC?
> >I am thinking of just removing it and installing a new one and use a
> >socket instead of soldering it in.
> >Any problems doing that that I should be aware of?
> >I have checked all the current limiting resistors, and they all test
> fine.
> >
> >Thanks,
> >Gordon
>
>

20560. Re: [TS-520_820_530_830] DFC-230

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-16 02:26:02 UTC
From: Lou Blasco
Topic: 1151 Message: 20560

Hi Gordon,

If segment e is off I think the correct pin on IC16 is pin 9 (check page 8). Check pin 9 of the IC and note activity on that line. I expect a working line to change between 0V and 5V depending on weather the segment is lit or not. It should be enough to show you that the cathode is being driven. If you like you could used the anode line from one of the digit driver transistors to trigger the scope doesn't matter which as long as you know which digit you are watching. Knowing the state of the segment on your chosen digit you should be able to figure out what's going on.

A bit hard to explain briefly in an email but here goes. Q20 to Q23 drive each digit in turn to 5 Volts. As each digit is enabled IC16 drives each segment to be illuminated to 0 Volts. So in order to display an "8" all segments will be drive to 0 volts. In order to display a zero all segments except "g" will be drive to 0 volts. If you trigger off any one of the four transistors you should be able to probe pin 9 to pin 15 of IC16 and see the state of each segment line. I'm pretty confident from your description that you will see very little or no activity on pin 9 of IC16.

The problem you describe points to IC16. Use the scope to watch pin 9 to pin 15 of IC16 and I'm confident you'll see the problem. Of course, if you have the parts it might be quicker to replace IC16 and check the results

Good luck

Lou
VK3ALB

At 12:55 16/03/2009, you wrote:
>Thanks Lou,
> The segment that is out is the (e) segment which is pin 11 on IC16 if I
>am correct.
>Do I check the Cathode (pin 11) or do I check the Anode of each Digit?
> I am a newbee when it comes to digital display logics
>
>
>
>
>Lou Blasco wrote:
> >
> > Hi Gordon,
> >

> > If you can get access to a 'scope or logic probe, check the segment
> > drive lines to the display. You should be able to find the line
> > that's not changing state. Remember of course that you need to select
> > a frequency on the DFC230 that will illuminate the faulty segment.
> > Page 7 & 8 of the service manual will help you identify the correct
> > line. Otherwise you could just go ahead and replace the chip.
> >
> > Lou
> > VK3ALB
> >
> > At 11:35 16/03/2009, you wrote:
> > >Hi Lou,
> > > Exactly what should I be looking for when I check this IC?
> > >I am thinking of just removing it and installing a new one and use a
> > >socket instead of soldering it in.
> > >Any problems doing that that I should be aware of?
> > >I have checked all the current limiting resistors, and they all test
> > fine.
> > >
> > >Thanks,
> > >Gordon
> >
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>Yahoo! Groups Links
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20561. Selling VFO-230 and AT-230

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-16 03:03:22 UTC
From: Gordon
Topic: 20561 Message: 20561

I am selling a VFO-230 and a AT-230
They both work very good. Some minor scratches and a couple of small nicks in the front bezel, but nothing serious.
I am asking $250.00 plus shipping for the VFO and $175.00 plus shipping for the AT-230.
Please Email me directly if interested.
n6wk at n6wk.com

73,
Gordon
N6WK

20562. Re: DFC-230

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-16 03:08:09 UTC
From: Gordon
Topic: 1151 Message: 20562

Hi Lou,
you are correct. I was looking at the terminal (pin) numbers for the Display unit itself. The pin on IC-16 is Pin 9 like you stated.
I will take a look at the lines tomorrow on the scope and let you know what I see.
If the IC-16 is available at my local parts store, I might just replace it and see what happens. The IC is pretty cheap. Not sure where I would find the LED display Chip (LN543GA) though. Seems it is discontinued. The DFC-230 works great except for those segments that are out.
I will keep you updated and thanks again Lou!

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, Lou Blasco <radio@...> wrote:
>
> Hi Gordon,
>
> If segment e is off I think the correct pin on IC16 is pin 9 (check
> page 8). Check pin 9 of the IC and note activity on that line. I
> expect a working line to change between 0V and 5V depending on
> weather the segment is lit or not. It should be enough to show you
> that the cathode is being driven. If you like you could used the
> anode line from one of the digit driver transistors to trigger the
> scope doesn't matter which as long as you know which digit you are
> watching. Knowing the state of the segment on your chosen digit you
> should be able to figure out what's going on.
>
> A bit hard to explain briefly in an email but here goes. Q20 to Q23
> drive each digit in turn to 5 Volts. As each digit is enabled IC16
> drives each segment to be illuminated to 0 Volts. So in order to
> display an "8" all segments will be drive to 0 volts. In order to
> display a zero all segments except "g" will be drive to 0 volts. If
> you trigger off any one of the four transistors you should be able to
> probe pin 9 to pin 15 of IC16 and see the state of each segment line.
> I'm pretty confident from your description that you will see very
> little or no activity on pin 9 of IC16.
>
> The problem you describe points to IC16. Use the scope to watch pin 9
> to pin 15 of IC16 and I'm confident you'll see the problem. Of
> course, if you have the parts it might be quicker to replace IC16 and
> check the results
>
> Good luck
>
> Lou

> VK3ALB
>
>
>
>
> At 12:55 16/03/2009, you wrote:
> >Thanks Lou,
> > The segment that is out is the (e) segment which is pin 11 on IC16 if I
> >am correct.
> >Do I check the Cathode (pin 11) or do I check the Anode of each Digit?
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> >
> >
> >
> >Lou Blasco wrote:
> > >
> > > Hi Gordon,
> > >
> > > If you can get access to a 'scope or logic probe, check the segment
> > > drive lines to the display. You should be able to find the line
> > > that's not changing state. Remember of course that you need to select
> > > a frequency on the DFC230 that will illuminate the faulty segment.
> > > Page 7 & 8 of the service manual will help you identify the correct
> > > line. Otherwise you could just go ahead and replace the chip.
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> > > Lou
> > > VK3ALB
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> > > At 11:35 16/03/2009, you wrote:
> > > >Hi Lou,
> > > > Exactly what should I be looking for when I check this IC?
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> > > >socket instead of soldering it in.
> > > >Any problems doing that that I should be aware of?
> > > >I have checked all the current limiting resistors, and they all test
> > > fine.
> > > >
> > > >Thanks,
> > > >Gordon
> > >
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> >Yahoo! Groups Links
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>

20563. Re: [TS-520_820_530_830] Re: Power supply Capacitors

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-16 04:35:10 UTC
From: Michael
Topic: 20443 Message: 20563

Chris,

 Though I would let you know The Power Supply Capacitors are installed and working also replaced the Cathode Resistors and Replaced the Two High Voltage Capacitors and The Choke in the Final Compartment, Now I got to redo the receive. But the radio is working great on transmit.

Thanks For The Help

ki0gv
Mike

--- On Sat, 3/7/09, sv0xbq <alexandchrisp@...> wrote:

From: sv0xbq <alexandchrisp@...>
Subject: [TS-520_820_530_830] Re: Power supply Capacitors
To: TS-520_820_530_830@yahoogroups.com
Date: Saturday, March 7, 2009, 12:08 AM

--- In TS-520_820_530_ 830@yahoogroups. com, "Michael" <ki0gv@...> wrote:
>
> I'm getting ready to change the big Power supply Capacitors in my ts-520s. How do you get them spring's off that hold the wire's on. I'm also going to change some resistors but them spring's that hold the component's on. I can't get them off.
>
>
> Thanks
> ki0gv
> Mike
>

Hi Mike,
I think that the springs you talk of are the wire wrapped lead connections. It's soft wire so just tease out a bit of the wire with a small screwdriver and unwrap it with a pair of thin nose pliers. You'll need a wire wrapping tool if you want them back the same. I'm sure someone will shout at me for this but I solder mine back.
Don't forget to ground everything to chassis before you start.
Chris

[Non-text portions of this message have been removed]

20564. Fixed Channels and Mic ad Stablizer

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-16 06:45:15 UTC
From: blacklabpupp
Topic: 20564 Message: 20564

I hate to ask so many questions, but where do the fixed crystals go? I searched the board again today and I cant find it. Also what type of crystals are to be installed? The common FT 243 that you see on eBay about every day? I am still puzzled about alot of this.
Has anyone installed the K4DPK stablizer? I am about to try one out and see if it will stablize the freq drift I experience. I can monitor the TS 820 on my Yaesu and I notice some drift. I realize this is normal considering the age and design of the gear. But the site claims it can hold the drift to more usable levels.
Mic's are a common argument on air, but generally what is best for this type of gear? Dynamic or magnetic, crystal. I dont usually worry to much with audio, but the hand mic that came with the rig is not of much use. All the best Gene

20565. Re: [TS-520_820_530_830] Fixed Channels and Mic ad Stablizer

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-16 09:55:28 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20564 Message: 20565

On Mon, 2009-03-16 at 06:45 +0000, blacklabpupp wrote:
> I hate to ask so many questions, but where do the fixed crystals go? I
> searched the board again today and I cant find it. Also what type of
> crystals are to be installed? The common FT 243 that you see on eBay
> about every day? I am still puzzled about alot of this.

Think it depends on the set, but on the TS520 the crystal board is at
the top just behind the VFO.

> Has anyone installed the K4DPK stablizer? I am about to try one out
> and see if it will stablize the freq drift I experience. I can monitor
> the TS 820 on my Yaesu and I notice some drift. I realize this is
> normal considering the age and design of the gear. But the site claims
> it can hold the drift to more usable levels.

My TS520 drifts pretty badly for the first five minutes, but after that
it's stable to about 100Hz/hr. After it's been on for an hour or two,
it's good for a few tens of Hz per hour. Sudden drastic changes in
ambient temperature will knock it off, so you'll need to retune a bit if
your shack gets really hot or really cold when you're using it.

> Mic's are a common argument on air, but generally what is best for
> this type of gear? Dynamic or magnetic, crystal. I dont usually worry
> to much with audio, but the hand mic that came with the rig is not of
> much use. All the best Gene

I use the MC-10 hand mike, and found it to be pretty good. I don't have
a lot of space in the shack for a desk mike, and I can't be bothered
with all the preampery and bracketry involved in mounting a "studio"
mike. The audio from the MC-10 should be perfectly okay, but it's
possible that yours is faulty or damaged. One thing to make sure of is
that the case is screwed together properly - if it's not, it will creak
and groan as it flexes when you press the PTT and will sound really
horrible for your listeners!

You can use just about any mike as long as it has a high-impedance
output. If you've got a low-impedance mike, you'll need a preamp of
some sort. You can buy these, or you can make these. At its simplest,
it's one transistor, two resistors, two caps and a battery. Not exactly
difficult, is it?

I don't really get the whole "studio mike" thing for this kind of work.
The very first thing that happens to your audio when it goes into the
TS-(whatever) is it's passed through a clipper, lowpass filter to lop
off everything below 300Hz, then a highpass to lop off everything above
3400Hz. For a speech mode that sounds like an angry duck trapped in a
tin outhouse, having a really high-end mike seems a bit unnecessary.

Gordon

20566. Re: [TS-520_820_530_830] Possible receive problems on TS-520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-16 11:59:43 UTC
From: Daniel TOESCA
Topic: 20536 Message: 20566

Hi,

What was the calibrator S-meter level BEFORE and AFTER working on the set
????

Same level = antenna problem or bad propagation.

73's - Daniel, ON5PY

2009/3/15, Michael <ki0gv@...>:
>
> Hello to the Group,
>
> I think I may have possible Mosfet receive problems on my Kenwood TS-520S.
> When I first got this radio about 2 months ago. On the volume control once
> in a while it would really get statically and I would turn the volume back
> and forth, and the good receive would just come back so I found another
> control and installed it and while I was inside the radio, I took contact
> cleaner and cleaned all the contacts associated with the Band selector
> switch along with many other contacts. Well today I put the radio back up on
> the desk, When I turned it on the static on the volume control was gone but
> the receive on the radio isnt what it was not near the signal strenght on
> some stations like I was getting, I can hear them but nothing like it was.
> Could it be a Bad Mosfet.
>
> Any Ideas,
>
> Thanks
> ki0gv
> Mike
>
>
>

[Non-text portions of this message have been removed]

20567. Re: Fixed Channels and Mic ad Stablizer

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-16 13:17:59 UTC
From: w5rkl
Topic: 20564 Message: 20567

The fixed crystals for the TS-820 plug into the FIX CHANNEL board on the bottom. The crystals are HC-25/U and frequency ranges between 5.00Mhz and 5.500Mhz. See the TS-820's operator's manual page 21 for further details. You can download the TS-820 operator's manual at the following Kenwood website.

http://www.kenwoodusa.com/Support/AMA_Radios/#_

Scroll down and click on the "Amateur Radio Manual" drop down menu.

Drift in the 820 is caused by the 9VDC drifting upwards. D5 and Q7, when replaced, will greatly reduce the 820's drift after 30 minutes warm up. D5 and Q7 can be obtained at Electronic Surplus.

Q7 (2SA496Y)

http://www.electronicsurplus.com/ccp78762-to-220-pnp-transistor-2sa496-y-13844.htm

D5 (1N5234B, 6.2 volt zener 500 mw)

http://www.electronicsurplus.com/commerce/catalog/product.jsp?product_id=90605&czuid=12335
08037287

I purchased both components from Electronic Surplus (minimum $15 order), replaced D5 and Q7, adjusted the 9VDC and 3.3VDC and my 820's drift, after 30 minute warm up, was no more than 75Hz per hour after 30 minute warm up.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "blacklabpupp" <blacklabpupp@...> wrote:
>
> I hate to ask so many questions, but where do the fixed crystals go? I searched the board again today and I cant find it. Also what type of crystals are to be installed? The common FT 243 that you see on eBay about every day? I am still puzzled about alot of this.
> Has anyone installed the K4DPK stablizer? I am about to try one out and see if it will stablize the freq drift I experience. I can monitor the TS 820 on my Yaesu and I notice some drift. I realize this is normal considering the age and design of the gear. But the site claims it can hold the drift to more usable levels.
> Mic's are a common argument on air, but generally what is best for this type of gear? Dynamic or magnetic, crystal. I dont usually worry to much with audio, but the hand mic that came with the rig is not of much use. All the best Gene
>

20568. Re: [TS-520_820_530_830] TS-520S Servicing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-16 15:21:55 UTC
From: Jeramy Ross
Topic: 20555 Message: 20568

On Mar 15, 2009, at 8:00 PM, "Sulaiman Abdullah" <sulabd@...>
wrote:

> I have had my TS-520s for a few months now and I'm very pleased with
> it.
> (original valves, full output etc.)
> After reading of problems the rig may develop over time
> I'm considering some preventive maintenance.
> I am by trade an industrial electronics repair engineer so I'm
> reasonably competent
> and have all the required equipment.
> I don't intend to re-align anything yet, I just want to ensure the
> rig keeps going as it is.
>
> I've read in this forum about the finals cathode resistors possibly
> increasing resistance
> What else should I check?
>
> All suggestions appreciated
> Thanks ..Sulaiman 2E0YAH
>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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20569. Re: TS-830 no power on SSB

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-16 15:27:29 UTC
From: waterfield55
Topic: 20522 Message: 20569

I cracked the case, I see the IF board referred to in the survival guide, but I am unsure as to where to provide an alternative ground. Should this go from one of the screws that mount the board, or do I have to find a ground trace on the board and provide a ground at that point?
Good thing I opened it up, my band switch was loose as well. Thankfully it was not cracked.

--- In TS-520_820_530_830@yahoogroups.com, "waterfield55" <waterfield55@...> wrote:
>
> I am new to this 830.
> It tunes up just fine (using K4EAA procedure). When I switch to USB or LSB I have NO power. I have read all the post about it here and tried all those things. I know the mic (MC-30S)is working, it will trip the VOX. I checked the proc switch and it too appears to be ok. Put the unit into CW and I have full power. I only have a dipole cut for 20 meters so I have not checked it on other bands.
>
> Ah yes the newbies strike again!
>
> Bob
> KD8HZC
>

20570. Transformer problem for 599 rec.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-16 12:46:24 UTC
From: jim_k9pn
Topic: 20570 Message: 20570

Sir. I have a very nice set of 599s. However the Rec has developed a bit of a problem. I have to run it on 12 volt DC. The internal AC has become inop. I was told it was the AC transformer by a Tech, but said he did not know where he could get a new transformer for me. Any help on this would be much appreciated.

Jim K9PN

20571. Re: [TS-520_820_530_830] Fixed Channels and Mic ad Stablizer

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-16 14:17:15 UTC
From: Doug Collins
Topic: 20564 Message: 20571

Gordon, I tried one of the K4DPK stablizer boards on my 830 and it did almost nothing for me. Save your money. I took it back out and still have it. Would not recomend to anyone really. Bill, W4SSV

--- On Mon, 3/16/09, Gordon JC Pearce MM3YEQ <gordon@...> wrote:

From: Gordon JC Pearce MM3YEQ <gordon@...>
Subject: Re: [TS-520_820_530_830] Fixed Channels and Mic ad Stablizer
To: TS-520_820_530_830@yahoogroups.com
Date: Monday, March 16, 2009, 4:55 AM

On Mon, 2009-03-16 at 06:45 +0000, blacklabpupp wrote:
> I hate to ask so many questions, but where do the fixed crystals go? I
> searched the board again today and I cant find it. Also what type of
> crystals are to be installed? The common FT 243 that you see on eBay
> about every day? I am still puzzled about alot of this.

Think it depends on the set, but on the TS520 the crystal board is at
the top just behind the VFO.

> Has anyone installed the K4DPK stablizer? I am about to try one out
> and see if it will stablize the freq drift I experience. I can monitor
> the TS 820 on my Yaesu and I notice some drift. I realize this is
> normal considering the age and design of the gear. But the site claims
> it can hold the drift to more usable levels.

My TS520 drifts pretty badly for the first five minutes, but after that
it's stable to about 100Hz/hr. After it's been on for an hour or two,
it's good for a few tens of Hz per hour. Sudden drastic changes in
ambient temperature will knock it off, so you'll need to retune a bit if
your shack gets really hot or really cold when you're using it.

> Mic's are a common argument on air, but generally what is best for
> this type of gear? Dynamic or magnetic, crystal. I dont usually worry
> to much with audio, but the hand mic that came with the rig is not of
> much use. All the best Gene

I use the MC-10 hand mike, and found it to be pretty good. I don't have
a lot of space in the shack for a desk mike, and I can't be bothered
with all the preampery and bracketry involved in mounting a "studio"
mike. The audio from the MC-10 should be perfectly okay, but it's
possible that yours is faulty or damaged. One thing to make sure of is
that the case is screwed together properly - if it's not, it will creak
and groan as it flexes when you press the PTT and will sound really
horrible for your listeners!

You can use just about any mike as long as it has a high-impedance output. If you've got a low-impedance mike, you'll need a preamp of some sort. You can buy these, or you can make these. At its simplest, it's one transistor, two resistors, two caps and a battery. Not exactly difficult, is it?

I don't really get the whole "studio mike" thing for this kind of work. The very first thing that happens to your audio when it goes into the TS-(whatever) is it's passed through a clipper, lowpass filter to lop off everything below 300Hz, then a highpass to lop off everything above 3400Hz. For a speech mode that sounds like an angry duck trapped in a tin outhouse, having a really high-end mike seems a bit unnecessary.

Gordon

[Non-text portions of this message have been removed]

20572. Re: [TS-520_820_530_830] Fixed Channels and Mic ad Stablizer

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-16 16:28:36 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20564 Message: 20572

On Mon, 2009-03-16 at 07:17 -0700, Doug Collins wrote:
> Gordon, I tried one of the K4DPK stablizer boards on my 830 and it did
> almost nothing for me. Save your money. I took it back out and still
> have it. Would not recomend to anyone really. Bill, W4SSV

It wasn't me that was having stability problems, it was blacklabpupp ;-)

Seriously though - my TS-520 seems almost supernaturally stable, for an old VFO rig. I put it down to "they don't make 'em like that any more", but is mine just particularly good or something?

Gordon

20573. Re: Transformer problem for 599 rec.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-16 16:50:17 UTC
From: w5rkl
Topic: 20570 Message: 20573

How did the "Tech" come to the conclusion the transformer was bad?

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "jim_k9pn" <jim_k9pn@...> wrote:
>
> Sir. I have a very nice set of 599s. However the Rec has developed a bit of a problem. I have to run it on 12 volt DC. The internal AC has become inop. I was told it was the AC transformer by a Tech, but said he did not know where he could get a new transformer for me. Any help on this would be much appreciated.
>
> Jim K9PN
>

20574. Re: [TS-520_820_530_830] DFC-230

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-16 17:10:20 UTC
From: N6WK
Topic: 1151 Message: 20574

Hi Lou,
I fired up the scope and took a look.
Pins 10 through 15 all have the same pattern but as you thought, pin 9
has a very low pattern.
I'm off to see if I can find a new IC.
I'll let you know the outcome after I get it installed.
Thanks.
Gordon
N6WK

Lou Blasco wrote:
>
> Hi Gordon,
>
> If segment e is off I think the correct pin on IC16 is pin 9 (check
> page 8). Check pin 9 of the IC and note activity on that line. I
> expect a working line to change between 0V and 5V depending on
> weather the segment is lit or not. It should be enough to show you
> that the cathode is being driven. If you like you could used the
> anode line from one of the digit driver transistors to trigger the
> scope doesn't matter which as long as you know which digit you are
> watching. Knowing the state of the segment on your chosen digit you
> should be able to figure out what's going on.
>
> A bit hard to explain briefly in an email but here goes. Q20 to Q23
> drive each digit in turn to 5 Volts. As each digit is enabled IC16
> drives each segment to be illuminated to 0 Volts. So in order to
> display an "8" all segments will be drive to 0 volts. In order to
> display a zero all segments except "g" will be drive to 0 volts. If
> you trigger off any one of the four transistors you should be able to
> probe pin 9 to pin 15 of IC16 and see the state of each segment line.
> I'm pretty confident from your description that you will see very
> little or no activity on pin 9 of IC16.
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> The problem you describe points to IC16. Use the scope to watch pin 9
> to pin 15 of IC16 and I'm confident you'll see the problem. Of
> course, if you have the parts it might be quicker to replace IC16 and
> check the results
>
> Good luck
>
> Lou
> VK3ALB
>
> At 12:55 16/03/2009, you wrote:

> >Thanks Lou,
> > The segment that is out is the (e) segment which is pin 11 on IC16 if I
> >am correct.
> >Do I check the Cathode (pin 11) or do I check the Anode of each Digit?
> > I am a newbee when it comes to digital display logics
> >
> >
> >
> >
> >Lou Blasco wrote:
> > >
> > > Hi Gordon,
> > >
> > > If you can get access to a 'scope or logic probe, check the segment
> > > drive lines to the display. You should be able to find the line
> > > that's not changing state. Remember of course that you need to select
> > > a frequency on the DFC230 that will illuminate the faulty segment.
> > > Page 7 & 8 of the service manual will help you identify the correct
> > > line. Otherwise you could just go ahead and replace the chip.
> > >
> > > Lou
> > > VK3ALB
> > >
> > > At 11:35 16/03/2009, you wrote:
> > > >Hi Lou,
> > > > Exactly what should I be looking for when I check this IC?
> > > >I am thinking of just removing it and installing a new one and use a
> > > >socket instead of soldering it in.
> > > >Any problems doing that that I should be aware of?
> > > >I have checked all the current limiting resistors, and they all test
> > > fine.
> > > >
> > > >Thanks,
> > > >Gordon
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> >Yahoo! Groups Links
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20575. Re: Fixed Channels and Mic ad Stablizer

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-16 17:11:20 UTC
From: w5rkl
Topic: 20564 Message: 20575

I have never used the board in question so I can't comment on it. However, I can say that replacing D5 and Q7 on the 820's AF Unit board fixed the drift problem in my 820. A few dollars for a couple of "original" components is, in my opinion, a better route to take than spending quite a bit more for a board that may or may not solve the drift problem. The VFO in the 820 will drift but the drift can be reduced quite a bit, much closer to factory specifications, by replacing the aging D5 and Q7 components with NOS original components then adjusting the 9VDC and 3.3VDC on the AF Unit board.

Of course it's up to Gene whether he goes with a stabilizer board or simply replace the two components on the 820's AF Unit board.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "blacklabpupp" <blacklabpupp@...> wrote:
>
> I hate to ask so many questions, but where do the fixed crystals go? I searched the board again today and I cant find it. Also what type of crystals are to be installed? The common FT 243 that you see on eBay about every day? I am still puzzled about alot of this.
> Has anyone installed the K4DPK stablizer? I am about to try one out and see if it will stablize the freq drift I experience. I can monitor the TS 820 on my Yaesu and I notice some drift. I realize this is normal considering the age and design of the gear. But the site claims it can hold the drift to more usable levels.
> Mic's are a common argument on air, but generally what is best for this type of gear? Dynamic or magnetic, crystal. I dont usually worry to much with audio, but the hand mic that came with the rig is not of much use. All the best Gene
>

20576. Re: [TS-520_820_530_830] DFC-230

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-16 19:03:51 UTC
From: N6WK
Topic: 1151 Message: 20576

Hi Lou,
New chip..... Same problem :-(
Back to the circuit..
Is there a way to actually check the LED?
It appears it is no longer available and is Part number LN543GA

73,
Gordon

Lou Blasco wrote:
>
> Hi Gordon,
>
> If segment e is off I think the correct pin on IC16 is pin 9 (check
> page 8). Check pin 9 of the IC and note activity on that line. I
> expect a working line to change between 0V and 5V depending on
> weather the segment is lit or not. It should be enough to show you
> that the cathode is being driven. If you like you could used the
> anode line from one of the digit driver transistors to trigger the
> scope doesn't matter which as long as you know which digit you are
> watching. Knowing the state of the segment on your chosen digit you
> should be able to figure out what's going on.
>
> A bit hard to explain briefly in an email but here goes. Q20 to Q23
> drive each digit in turn to 5 Volts. As each digit is enabled IC16
> drives each segment to be illuminated to 0 Volts. So in order to
> display an "8" all segments will be drive to 0 volts. In order to
> display a zero all segments except "g" will be drive to 0 volts. If
> you trigger off any one of the four transistors you should be able to
> probe pin 9 to pin 15 of IC16 and see the state of each segment line.
> I'm pretty confident from your description that you will see very
> little or no activity on pin 9 of IC16.
>
> The problem you describe points to IC16. Use the scope to watch pin 9
> to pin 15 of IC16 and I'm confident you'll see the problem. Of
> course, if you have the parts it might be quicker to replace IC16 and
> check the results
>
> Good luck
>
> Lou
> VK3ALB
>
> At 12:55 16/03/2009, you wrote:
> >Thanks Lou,

> > The segment that is out is the (e) segment which is pin 11 on IC16 if I
> >am correct.
> >Do I check the Cathode (pin 11) or do I check the Anode of each Digit?
> > I am a newbee when it comes to digital display logics
> >
> >
> >
> >
> >Lou Blasco wrote:
> > >
> > > Hi Gordon,
> > >
> > > If you can get access to a 'scope or logic probe, check the segment
> > > drive lines to the display. You should be able to find the line
> > > that's not changing state. Remember of course that you need to select
> > > a frequency on the DFC230 that will illuminate the faulty segment.
> > > Page 7 & 8 of the service manual will help you identify the correct
> > > line. Otherwise you could just go ahead and replace the chip.
> > >
> > > Lou
> > > VK3ALB
> > >
> > > At 11:35 16/03/2009, you wrote:
> > > >Hi Lou,
> > > > Exactly what should I be looking for when I check this IC?
> > > >I am thinking of just removing it and installing a new one and use a
> > > >socket instead of soldering it in.
> > > >Any problems doing that that I should be aware of?
> > > >I have checked all the current limiting resistors, and they all test
> > > fine.
> > > >
> > > >Thanks,
> > > >Gordon
> > >
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> >
> >Yahoo! Groups Links
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20577. Re: DFC-230

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-16 20:03:07 UTC
From: Gordon
Topic: 1151 Message: 20577

Ok, Did some more testing on this DFC-230.
Looks like it is in fact the Display.
Lou, I removed the output ends of resistors R111 and R112 then switched them. The E segment driver will light up the new segment "D" so that tells me the chip is working. However, the driver that used to be for the "D" segment, still does not light up the "E" segment which tells me, the display is bad.
Do you agree?

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@...> wrote:
>
> Hi Lou,
> New chip..... Same problem :-(
> Back to the circuit..
> Is there a way to actually check the LED?
> It appears it is no longer available and is Part number LN543GA
>
> 73,
> Gordon
>
>
> Lou Blasco wrote:
> >
> > Hi Gordon,
> >
> > If segment e is off I think the correct pin on IC16 is pin 9 (check
> > page 8). Check pin 9 of the IC and note activity on that line. I
> > expect a working line to change between 0V and 5V depending on
> > weather the segment is lit or not. It should be enough to show you
> > that the cathode is being driven. If you like you could used the
> > anode line from one of the digit driver transistors to trigger the
> > scope doesn't matter which as long as you know which digit you are
> > watching. Knowing the state of the segment on your chosen digit you
> > should be able to figure out what's going on.
> >
> > A bit hard to explain briefly in an email but here goes. Q20 to Q23
> > drive each digit in turn to 5 Volts. As each digit is enabled IC16
> > drives each segment to be illuminated to 0 Volts. So in order to
> > display an "8" all segments will be drive to 0 volts. In order to
> > display a zero all segments except "g" will be drive to 0 volts. If
> > you trigger off any one of the four transistors you should be able to
> > probe pin 9 to pin 15 of IC16 and see the state of each segment line.
> > I'm pretty confident from your description that you will see very

> > little or no activity on pin 9 of IC16.
> >
> > The problem you describe points to IC16. Use the scope to watch pin 9
> > to pin 15 of IC16 and I'm confident you'll see the problem. Of
> > course, if you have the parts it might be quicker to replace IC16 and
> > check the results
> >
> > Good luck
> >
> > Lou
> > VK3ALB
> >
> > At 12:55 16/03/2009, you wrote:
> > >Thanks Lou,
> > > The segment that is out is the (e) segment which is pin 11 on IC16 if I
> > >am correct.
> > >Do I check the Cathode (pin 11) or do I check the Anode of each Digit?
> > > I am a newbee when it comes to digital display logics
> > >
> > >
> > >
> > >
> > >Lou Blasco wrote:
> > > >
> > > > Hi Gordon,
> > > >
> > > > If you can get access to a 'scope or logic probe, check the segment
> > > > drive lines to the display. You should be able to find the line
> > > > that's not changing state. Remember of course that you need to select
> > > > a frequency on the DFC230 that will illuminate the faulty segment.
> > > > Page 7 & 8 of the service manual will help you identify the correct
> > > > line. Otherwise you could just go ahead and replace the chip.
> > > >
> > > > Lou
> > > > VK3ALB
> > > >
> > > > At 11:35 16/03/2009, you wrote:
> > > > >Hi Lou,
> > > > > Exactly what should I be looking for when I check this IC?
> > > > >I am thinking of just removing it and installing a new one and use a
> > > > >socket instead of soldering it in.
> > > > >Any problems doing that that I should be aware of?
> > > > >I have checked all the current limiting resistors, and they all test
> > > > fine.
> > > > >
> > > > >Thanks,
> > > > >Gordon
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> > >Yahoo! Groups Links
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20578. Re: Transformer problem for 599 rec.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-16 20:07:57 UTC
From: jim_k9pn
Topic: 20570 Message: 20578

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> How did the "Tech" come to the conclusion the transformer was bad?
>
> 73
> Mike
> W5RKL
>
> Sir. I really do not know how he determined it was bad. He is even older than I, has done some repair work for me in the past. I did not question him much. Is there Other possibilities I could check that could be the problem. I had one other person who is pretty sharp tell me that he really did not think the transformer was the problem.

Jim K9PN
>
>
>
>

20579. Re: [TS-520_820_530_830] Re: DFC-230

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-16 21:34:45 UTC
From: Lou Blasco
Topic: 1151 Message: 20579

Hi Gordon,

Unfortunately I have to agree with your assessment, looks like the display is bad. I've never seen an LED display fail unless it's been mistreated which is very unlikely in your case. Is it possible there's a short on the board somewhere? I guess you can either leave it as is or try and find a surplus clock that has the same display.

After a brief search I found that the displays are still available, not sure if it's in the right price range

http://www.partstore.com/Part/Kenwood/Kenwood/LN543GA.aspx

Lou
VK3ALB

At 07:03 17/03/2009, you wrote:
>Ok, Did some more testing on this DFC-230.
>Looks like it is in fact the Display.
>Lou, I removed the output ends of resistors R111 and R112 then
>switched them. The E segment driver will light up the new segment
>"D" so that tells me the chip is working. However, the driver that
>used to be for the "D" segment, still does not light up the "E"
>segment which tells me, the display is bad.
>Do you agree?
>
>73,
>Gordon

20580. Re: [TS-520_820_530_830] Re: DFC-230

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-16 22:17:26 UTC
From: N6WK
Topic: 1151 Message: 20580

Thanks for the Link Lou,
I just ordered the display unit. Came to around $45.00 with tax and
shipping. Not that big of a deal.
Hope it solves it. I don't have any history on the unit I am working on.
It came included in a package deal I made.
I checked the Circuits for shorts, but all looks good right up to the
display LED itself.
I appreciate all your help on this thing.

73,
Gordon

Lou Blasco wrote:
>
> Hi Gordon,
>
> Unfortunately I have to agree with your assessment, looks like the
> display is bad. I've never seen an LED display fail unless it's been
> mistreated which is very unlikely in your case. Is it possible
> there's a short on the board somewhere? I guess you can either leave
> it as is or try and find a surplus clock that has the same display.
>
> After a brief search I found that the displays are still available,
> not sure if it's in the right price range
>
> http://www.partstore.com/Part/Kenwood/Kenwood/LN543GA.aspx
> <http://www.partstore.com/Part/Kenwood/Kenwood/LN543GA.aspx>
>
> Lou
> VK3ALB
>
> At 07:03 17/03/2009, you wrote:
> >Ok, Did some more testing on this DFC-230.
> >Looks like it is in fact the Display.
> >Lou, I removed the output ends of resistors R111 and R112 then
> >switched them. The E segment driver will light up the new segment
> >"D" so that tells me the chip is working. However, the driver that
> >used to be for the "D" segment, still does not light up the "E"
> >segment which tells me, the display is bad.
> >Do you agree?
> >
> >73,
> >Gordon
>
>

20581. Re: [TS-520_820_530_830] Re: DFC-230

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-16 22:21:27 UTC
From: Lou Blasco
Topic: 1151 Message: 20581

Hi Gordon,

No problem it's just a shame that it wasn't so easy to fix. I think
we've covered all bases now it has to be the display.

Let us know how you go.

Lou
VK3ALB

At 09:17 17/03/2009, you wrote:
>Thanks for the Link Lou,
> I just ordered the display unit. Came to around $45.00 with tax and
>shipping. Not that big of a deal.
>Hope it solves it. I don't have any history on the unit I am working on.
>It came included in a package deal I made.
>I checked the Circuits for shorts, but all looks good right up to the
>display LED itself.
>I appreciate all your help on this thing.
>
>73,
>Gordon
>
>
>Lou Blasco wrote:
> >
> > Hi Gordon,
> >
> > Unfortunately I have to agree with your assessment, looks like the
> > display is bad. I've never seen an LED display fail unless it's been
> > mistreated which is very unlikely in your case. Is it possible
> > there's a short on the board somewhere? I guess you can either leave
> > it as is or try and find a surplus clock that has the same display.
> >
> > After a brief search I found that the displays are still available,
> > not sure if it's in the right price range
> >
> > http://www.partstore.com/Part/Kenwood/Kenwood/LN543GA.aspx
> > <http://www.partstore.com/Part/Kenwood/Kenwood/LN543GA.aspx>
> >
> > Lou
> > VK3ALB
> >
> > At 07:03 17/03/2009, you wrote:
> > >Ok, Did some more testing on this DFC-230.
> > >Looks like it is in fact the Display.

> > >Lou, I removed the output ends of resistors R111 and R112 then
> > >switched them. The E segment driver will light up the new segment
> > >"D" so that tells me the chip is working. However, the driver that
> > >used to be for the "D" segment, still does not light up the "E"
> > >segment which tells me, the display is bad.
> > >Do you agree?
> > >
> > >73,
> > >Gordon
> >
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>Yahoo! Groups Links
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20582. Re: [TS-520_820_530_830] Re: DFC-230

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-16 22:40:17 UTC
From: N6WK
Topic: 1151 Message: 20582

Lou,
Yes, I was hoping the chip would fix it, but look at it this way, Now
I know how to partially trouble shoot a display.
So, it was a cheap price to pay for some knowledge that I am sure will
help me down the road, thanks to you!
I will definitely give you an update once the display unit arrives.
I love fixing this old gear and I hate to say something is not fixable!!
73,
Gordon

Lou Blasco wrote:
>
> Hi Gordon,
>
> No problem it's just a shame that it wasn't so easy to fix. I think
> we've covered all bases now it has to be the display.
>
> Let us know how you go.
>
> Lou
> VK3ALB
>
> At 09:17 17/03/2009, you wrote:
> >Thanks for the Link Lou,
> > I just ordered the display unit. Came to around $45.00 with tax and
> >shipping. Not that big of a deal.
> >Hope it solves it. I don't have any history on the unit I am working on.
> >It came included in a package deal I made.
> >I checked the Circuits for shorts, but all looks good right up to the
> >display LED itself.
> >I appreciate all your help on this thing.
> >
> >73,
> >Gordon
> >
> >
> >Lou Blasco wrote:
> > >
> > > Hi Gordon,
> > >
> > > Unfortunately I have to agree with your assessment, looks like the
> > > display is bad. I've never seen an LED display fail unless it's been
> > > mistreated which is very unlikely in your case. Is it possible
> > > there's a short on the board somewhere? I guess you can either leave
> > > it as is or try and find a surplus clock that has the same display.

> > >
> > > After a brief search I found that the displays are still available,
> > > not sure if it's in the right price range
> > >
> > > http://www.partstore.com/Part/Kenwood/Kenwood/LN543GA.aspx
> <http://www.partstore.com/Part/Kenwood/Kenwood/LN543GA.aspx>
> > > <http://www.partstore.com/Part/Kenwood/Kenwood/LN543GA.aspx
> <http://www.partstore.com/Part/Kenwood/Kenwood/LN543GA.aspx>>
> > >
> > > Lou
> > > VK3ALB
> > >
> > > At 07:03 17/03/2009, you wrote:
> > > >Ok, Did some more testing on this DFC-230.
> > > >Looks like it is in fact the Display.
> > > >Lou, I removed the output ends of resistors R111 and R112 then
> > > >switched them. The E segment driver will light up the new segment
> > > >"D" so that tells me the chip is working. However, the driver that
> > > >used to be for the "D" segment, still does not light up the "E"
> > > >segment which tells me, the display is bad.
> > > >Do you agree?
> > > >
> > > >73,
> > > >Gordon
> > >
> > >
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> >Yahoo! Groups Links
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20583. Re: [TS-520_820_530_830] Fixed Channels and Mic ad Stablizer

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-16 22:56:30 UTC
From: martin
Topic: 20564 Message: 20583

Hi Guys. After warm-up my TS-530S drifts about 80 HZ an hour. My
TS-130SE only drifts about 37 HZ after warm-up. This is well within
specs for both radios. Both radios are stable enough to use for PSK
and other sound card digital modes.

If it were me, I would replace a few parts rather than try an more
expensive and complex solution.

TTYL

Gordon JC Pearce MM3YEQ wrote:
> On Mon, 2009-03-16 at 07:17 -0700, Doug Collins wrote:
>> Gordon, I tried one of the K4DPK stablizer boards on my 830 and it did
>> almost nothing for me. Save your money. I took it back out and still
>> have it. Would not recomend to anyone really. Bill, W4SSV
>
> It wasn't me that was having stability problems, it was blacklabpupp ;-)
>
> Seriously though - my TS-520 seems almost supernaturally stable, for an
> old VFO rig. I put it down to "they don't make 'em like that any more",
> but is mine just particularly good or something?
>
> Gordon
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

20584. RE: [TS-520_820_530_830] TS830S - Strange Behavior

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-16 23:40:48 UTC
From: Tate Antrim
Topic: 20584 Message: 20584

Running some further tests:

HV - starts at 950 then backs down to 800

IP - runs the gamut (In tune it will go negative)

ALC - solid right hand peg on the meter

RF - up and down and all around

Looks like I'll have to tear the PA compartment apart.great

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Gordon JC Pearce
MM3YEQ
Sent: Monday, March 16, 2009 7:29 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS830S - Strange Behavior

On Mon, 2009-03-16 at 19:20 -0400, Tate Antrim wrote:

>
> Time for new tubes all around?

Dead valves wouldn't smell. Dead PA cathode resistors would though.

Gordon

[Non-text portions of this message have been removed]

20585. Re: DFC-230

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-17 00:14:28 UTC
From: m j synowiec
Topic: 1151 Message: 20585

Gordon & All,

I hope this finds you well. In the interest of giving you a little peace of mind... I've purchased parts for my Kenwood gear through Parts Store and found them to be reliable and prompt. You can even type in the original K-wood parts #'s or board assy. #;s and find the part you need.

I found in one case, the X59-1100-00 board complete was much cheaper than the SMD's that I needed to replace & a lot easier to replace as well.

I hope this helps.

Vy 73,

Mike K8SYN

--- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@...> wrote:
>
> Lou,
> Yes, I was hoping the chip would fix it, but look at it this way, Now
> I know how to partially trouble shoot a display.
> So, it was a cheap price to pay for some knowledge that I am sure will
> help me down the road, thanks to you!
> I will definitely give you an update once the display unit arrives.
> I love fixing this old gear and I hate to say something is not fixable!!
> 73,
> Gordon
>

20586. Re: [TS-520_820_530_830] Re: DFC-230

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-17 00:42:21 UTC
From: N6WK
Topic: 1151 Message: 20586

Thanks Mike,
I appreciate the information.

73,
Gordon

m j synowiec wrote:
>
> Gordon & All,
>
> I hope this finds you well. In the interest of giving you a little
> peace of mind... I've purchased parts for my Kenwood gear through
> Parts Store and found them to be reliable and prompt. You can even
> type in the original K-wood parts #'s or board assy. #;s and find the
> part you need.
>
> I found in one case, the X59-1100-00 board complete was much cheaper
> than the SMD's that I needed to replace & a lot easier to replace as
> well.
>
> I hope this helps.
>
> Vy 73,
>
> Mike K8SYN
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, N6WK <n6wk@...> wrote:
> >
> > Lou,
> > Yes, I was hoping the chip would fix it, but look at it this way, Now
> > I know how to partially trouble shoot a display.
> > So, it was a cheap price to pay for some knowledge that I am sure will
> > help me down the road, thanks to you!
> > I will definitely give you an update once the display unit arrives.
> > I love fixing this old gear and I hate to say something is not fixable!!
> > 73,
> > Gordon
> >
>
>
>

20587. Re: [TS-520_820_530_830] Kenwood Ts 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-17 01:34:33 UTC
From: Bob
Topic: 20540 Message: 20587

Ok, we'll do. I'll be check'n it 2nite.

Thanx,

Bob

--- On Sun, 3/15/09, Dave Gmail <ve3wej@...> wrote:

check to see if the rf gain control has been turned the wrong direction,
where is the meter needle, left side or right side

20588. RE: [TS-520_820_530_830] TS830S - Strange Behavior

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-17 03:21:27 UTC
From: Tate Antrim
Topic: 20584 Message: 20588

Well problem solved:

After digging around and checking resistors and voltages it turns out that there was a cold solder joint on the parasitic suppressor connecting the front 6146B to the plate choke. Once that was resoldered the old girl was good to go. Everything seems happy now including the owner.

Pumping out 135W solid on 20m into my cantenna and no tube changes. While the old girl is apart I'll do some cleaning and aligning maybe.

Thanks to folks for suggestions.

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Tate Antrim
Sent: Monday, March 16, 2009 7:41 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: RE: [TS-520_820_530_830] TS830S - Strange Behavior

Running some further tests:

HV - starts at 950 then backs down to 800

IP - runs the gamut (In tune it will go negative)

ALC - solid right hand peg on the meter

RF - up and down and all around

Looks like I'll have to tear the PA compartment apart.great

From: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
[mailto:TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of Gordon JC
Pearce
MM3YEQ
Sent: Monday, March 16, 2009 7:29 PM
To: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
Subject: Re: [TS-520_820_530_830] TS830S - Strange Behavior

On Mon, 2009-03-16 at 19:20 -0400, Tate Antrim wrote:

>
> Time for new tubes all around?

Dead valves wouldn't smell. Dead PA cathode resistors would though.

Gordon

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

20589. Fixed Channel Operation

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-17 07:30:38 UTC
From: blacklabpupp
Topic: 20589 Message: 20589

Thanks for sending me to a URL to download the manual. I had no idea Kenwood would offer it.
Let me see if I have this right. The TS 820 will work on 30, 17, and 12 meters, using the fixed channel mode?
I know someone has already figured this out, but lets give it a go and see if I understand it correctly. The fixed channel on transmit will only be that one frequency, but on receive I can use the RIT and listen to the whole band, on either 30, 17, or 12, because they are under the 150 khz range of the RIT. But without an external VFO I am stuck on one transmit freq. So to figure the crystal needed, following the formula in the manual, 5.5 + 10 - 10.125 = 5.375. So I should order a crystal for 5.375 Mhz. Because the crystal is operating on a harmonic all I need to do is tune the Plate into the range of 30 meters, and set the Load and Drive and I am good to go. GOD how I hope so!!!! Gene

20590. Re: Fixed Channel Operation

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-17 14:11:39 UTC
From: w5rkl
Topic: 20589 Message: 20590

Hello Gene,

"Let me see if I have this right. The TS 820 will work on 30, 17, and 12 meters, using the fixed channel mode?"

Unfortunately Gene, that's not correct. The FIX CH mode allows the 820 to be operated on one of the following but only on the "original" band switch settings:

1. Fix crystal control transmit AND receive, no VFO operation. RIT does not work in this mode.

2. Fix crystal control transmit with VFO receive. RIT works in receive.

3. Fix crystal control receive with VFO control transmit. RIT does not work in receive mode.

The FIX CH crystals replace the VFO as a frequency controlling stage depending on what position the FUNCTION switch is set to. FIX CH does not allow you to operate the 820 on any band that is not part of the band switch. That means you can't operate on 30, 17, or 12 meters, by simply installing a crystal in one of the 4 FIX CH crystal sockets. It doesn't work that way.

The AUX position does not provide for transmit, only receive. The AUX position uses a crystal that is installed on the PD Unit of the PLL unit, not the FIX CH crystal sockets. There is no crystal installed in the AUX PD Unit's position as the 820 comes from the factory. You would have to install one but then again, it's only receive without extensive modification to the 820 for transmit and I wouldn't recommend that.

In order for the 820 to operate on one or more of the WARC bands, you would have change one or more of the 820's PD Unit's crystals. If you did that, you would loose what ever band PD Unit crystal you changed. This is how CB hackers modify Kenwood hybrids so they operate on 11 meters. CB hackers "usually" pick on of the 10 meter band switch settings and change the PD Unit's crystal so the radio operates on 11 meters then realign the radio. The final amplifier operating "outside" it's designed band switch setting does NOT like it very much. The final amplifier's PI Network is designed to operate on the "original" band switch settings. Operating "outside" of the original band switch setting can cause problems that could lead to early failures or improper emission radiation due to the circuits not operating at their designed resonant frequencies.

Whether you go to that extreme is your choice but I don't recommend it. If you want to operate on the WARC bands I recommend finding a radio that is designed to operate on the WARC bands, not modify the 820.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "blacklabpupp" <blacklabpupp@...> wrote:
>
> Thanks for sending me to a URL to download the manual. I had no idea Kenwood would offer it.
> Let me see if I have this right. The TS 820 will work on 30, 17, and 12 meters, using the fixed channel mode?
> I know someone has already figured this out, but lets give it a go and see if I understand it correctly. The fixed channel on transmit will only be that one frequency, but on receive I can use the RIT and listen to the whole band, on either 30, 17, or 12, because they are under the 150 khz range of the RIT. But without an external VFO I am stuck on one transmit freq. So to figure the crystal needed, following the formula in the manual, 5.5 + 10 - 10.125 = 5.375. So I should order a crystal for 5.375 Mhz. Because the crystal is operating on a harmonic all I need to do is tune the Plate into the range of 30 meters, and set the Load and Drive and I am good to go. GOD how I hope so!!!! Gene
>

20591. Re: TS830S - Strange Behavior

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-17 14:25:15 UTC
From: w5rkl
Topic: 20584 Message: 20591

What is the plate current and HV reading at 135 watts output into your dummy load and in what mode, CW or SSB?

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Tate Antrim" <kd8hja@...> wrote:
>
> Well problem solved:
>
>
>
> After digging around and checking resistors and voltages it turns out that
> there was a cold solder joint on the parasitic suppressor connecting the
> front 6146B to the plate choke. Once that was resoldered the old girl was
> good to go. Everything seems happy now including the owner.
>
>
>
> Pumping out 135W solid on 20m into my cantenna and no tube changes. While
> the old girl is apart I'll do some cleaning and aligning maybe.
>
>
>
> Thanks to folks for suggestions.
>
>
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Tate Antrim
> Sent: Monday, March 16, 2009 7:41 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: RE: [TS-520_820_530_830] TS830S - Strange Behavior
>
>
>
> Running some further tests:
>
> HV - starts at 950 then backs down to 800
>
> IP - runs the gamut (In tune it will go negative)
>
> ALC - solid right hand peg on the meter
>

> RF - up and down and all around
>
> Looks like I'll have to tear the PA compartment apart.great
>
> From: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> [mailto:TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of Gordon JC
> Pearce
> MM3YEQ
> Sent: Monday, March 16, 2009 7:29 PM
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Subject: Re: [TS-520_820_530_830] TS830S - Strange Behavior
>
> On Mon, 2009-03-16 at 19:20 -0400, Tate Antrim wrote:
>
> >
> > Time for new tubes all around?
>
> Dead valves wouldn't smell. Dead PA cathode resistors would though.
>
> Gordon
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

20592. Re: Kenwood Ts 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-17 14:33:05 UTC
From: w5rkl
Topic: 20540 Message: 20592

Hi Mike,

No, I was asking Bob how well he could hear the calibrator/marker signal on his radio.

However, if your radio can hear the calibrator/marker signal quite well but normal incoming signals are weak, you might want to check the antenna relay contacts, they could be quite dirty.

The calibrator/marker signal feeds the coil pack on the receiver side of the antenna change over relay, meaning between the coil pack and the antenna relay, not between the antenna relay and the rear panel SO-239 antenna connection. Check the relay contacts.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Michael <ki0gv@...> wrote:
>
> Mike,
>
> If you are replying to my message about low signal, but could receive. When I turn the 25 khz on, Then the meter goes about 3/4 of the way up after tuning the drive stage. But the receive is'nt as strong as it was before.
>
> Thanks
> ki0gv
> Mike
>
> --- On Sun, 3/15/09, w5rkl <w5rkl@...> wrote:
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: Kenwood Ts 520s
> To: TS-520_820_530_830@yahoogroups.com
> Date: Sunday, March 15, 2009, 10:54 AM
>
>
>
>
>
>
>
> How strong is the 520's calibrator signal?
>
> 73
> Mike
> W5RKL
>

> --- In TS-520_820_530_ 830@yahoogroups. com, "kc8pxs618" <kc8pxs618@ ..> wrote:
> >
> > I have no receive on any band. I do have tx with audio. Any help would great. Thanks Marcus AB8WR
> >
>
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> [Non-text portions of this message have been removed]
>

20593. Re: [TS-520_820_530_830] Fixed Channel Operation

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-17 16:39:29 UTC
From: martin
Topic: 20589 Message: 20593

Hi Gene. Mike is correct. And the RIT ONLY works on receive, and usually will only move the receive frequency 2-3 Khz at most. There is basically no practical way to get the W.A.R.C. bands (12M, 17M, and 30M) on your TS-820. A TS-530S, or TS-830S will have the W.A.R.C. bands. Or if you prefer solid state radios, a TS-130S, TS-130SE, or TS-430S are radios in about the same price range, and have the W.A.R.C. bands.

So for now, enjoy learning to operate you TS-820, and if you really want the W.A.R.C. bands, save up to add a radio later that has those bands. But keep the TS-820. Its a good well built radio that (with a little TLC) will gove you many years of enjoyment.

TTYL

blacklabpupp wrote:
> Thanks for sending me to a URL to download the manual. I had no
> idea Kenwood would offer it. Let me see if I have this right. The
> TS 820 will work on 30, 17, and 12 meters, using the fixed channel
> mode? I know someone has already figured this out, but lets give it
> a go and see if I understand it correctly. The fixed channel on
> transmit will only be that one frequency, but on receive I can use
> the RIT and listen to the whole band, on either 30, 17, or 12,
> because they are under the 150 khz range of the RIT. But without an
> external VFO I am stuck on one transmit freq. So to figure the
> crystal needed, following the formula in the manual, 5.5 + 10 -
> 10.125 = 5.375. So I should order a crystal for 5.375 Mhz. Because
> the crystal is operating on a harmonic all I need to do is tune the
> Plate into the range of 30 meters, and set the Load and Drive and I
> am good to go. GOD how I hope so!!!! Gene
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at http://www.defectivebydesign.org/what_is_drm"

20594. 8 Pin Octal Plug and Cover

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-17 17:35:42 UTC
From: Gordon
Topic: 20594 Message: 20594

Anyone have a good source for a Male 8 pin Octal Plug and cover for use in the remote socket of the TS-820S? I need one.

thanks,
Gordon
n6wk

20595. Re: [TS-520_820_530_830] 8 Pin Octal Plug and Cover

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-17 18:13:03 UTC
From: Ruben Echevarria
Topic: 20594 Message: 20595

Try this Gordon .....

http://www.kenselectronics.com/lists/pwrcord.htm

I have an octal plug but no cover ....
 Ruben Echevarria KA2HHB
SKCC #2132 EPC#3390 070 Club#861
10-10 International Club #33308
30Meter Digital Group #1148

From: Gordon <n6wk@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, March 17, 2009 1:35:42 PM
Subject: [TS-520_820_530_830] 8 Pin Octal Plug and Cover

Anyone have a good source for a Male 8 pin Octal Plug and cover for use in the remote socket of the TS-820S? I need one.

thanks,
Gordon
n6wk

[Non-text portions of this message have been removed]

20596. Re: 8 Pin Octal Plug and Cover

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-17 19:01:25 UTC
From: w5rkl
Topic: 20594 Message: 20596

Try Radio Daze, www.radiodaze.com. They have the plugs and covers.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Anyone have a good source for a Male 8 pin Octal Plug and cover for use in the remote socket of the TS-820S? I need one.
>
> thanks,
> Gordon
> n6wk
>

20597. Re: 8 Pin Octal Plug and Cover

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-17 19:04:02 UTC
From: w5rkl
Topic: 20594 Message: 20597

If you have an old weak or bad 6146 laying around, remove the glass envelope and tube elements and solder the wires to the pins on the base of the tube for a temporary fix. That's what I did and it works fine until you get the regular plug and cover.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Try Radio Daze, www.radiodaze.com. They have the plugs and covers.
>
> 73
> Mike
> W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Anyone have a good source for a Male 8 pin Octal Plug and cover for use in the remote socket of the TS-820S? I need one.
> >
> > thanks,
> > Gordon
> > n6wk
> >
>

20598. Re: [TS-520_820_530_830] Re: Kenwood Ts 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-17 19:16:44 UTC
From: Michael
Topic: 20540 Message: 20598

Mike,

  Do you have to take all them boards on top of the radio to get to the Relay or is there a simplier method.

Thank's
ki0gv
Mike

--- On Tue, 3/17/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@yahoo.com>
Subject: [TS-520_820_530_830] Re: Kenwood Ts 520s
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, March 17, 2009, 9:33 AM

Hi Mike,

No, I was asking Bob how well he could hear the calibrator/marker signal on his radio.

However, if your radio can hear the calibrator/marker signal quite well but normal incoming signals are weak, you might want to check the antenna relay contacts, they could be quite dirty.

The calibrator/marker signal feeds the coil pack on the receiver side of the antenna change over relay, meaning between the coil pack and the antenna relay, not between the antenna relay and the rear panel SO-239 antenna connection. Check the relay contacts.

73
Mike
W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@...> wrote:
>
> Mike,
>
> If you are replying to my message about low signal, but could receive. When I turn the 25 khz on, Then the meter goes about 3/4 of the way up after tuning the drive stage. But the receive is'nt as strong as it was before.
>
> Thanks
> ki0gv
> Mike
>
> --- On Sun, 3/15/09, w5rkl <w5rkl@...> wrote:
>
> From: w5rkl <w5rkl@...>

> Subject: [TS-520_820_ 530_830] Re: Kenwood Ts 520s
> To: TS-520_820_530_ 830@yahoogroups. com
> Date: Sunday, March 15, 2009, 10:54 AM
>
>
>
>
>
>
> How strong is the 520's calibrator signal?
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com, "kc8pxs618" <kc8pxs618@ ..> wrote:
> >
> > I have no receive on any band. I do have tx with audio. Any help would great. Thanks Marcus AB8WR
> >
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> [Non-text portions of this message have been removed]
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20599. Re: [TS-520_820_530_830] Re: 8 Pin Octal Plug and Cover

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-17 19:48:23 UTC
From: N6WK
Topic: 20594 Message: 20599

Thanks Mike,
that is a good idea for a quick fix.
I am looking for something more permanent for a customer and I think
Radiodaze has exactly what I need.
Thank you for the link.
73,
Gordon
n6wk

w5rkl wrote:
>
> If you have an old weak or bad 6146 laying around, remove the glass
> envelope and tube elements and solder the wires to the pins on the
> base of the tube for a temporary fix. That's what I did and it works
> fine until you get the regular plug and cover.
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "w5rkl" <w5rkl@...> wrote:
> >
> > Try Radio Daze, www.radiodaze.com. They have the plugs and covers.
> >
> > 73
> > Mike
> > W5RKL
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Gordon" <n6wk@> wrote:
> > >
> > > Anyone have a good source for a Male 8 pin Octal Plug and cover
> for use in the remote socket of the TS-820S? I need one.
> > >
> > > thanks,
> > > Gordon
> > > n6wk
> > >
> >
>
>

20600. Re: Fixed Channel Operation

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-17 19:51:54 UTC
From: blacklabpupp
Topic: 20589 Message: 20600

Thanks again, I am glad someone understands the manual HI HI... What good is an outboard VFO them? I guess it is used for split freq. operation, but I doubt I have ever used it more five times on my other rig, just hunting for other CW contacts. I just love to use the 820 more. I wish years ago I would not have wasted my time in QRP and all solid state rigs. It was push and go an I really learned nothing other than the basic interal design and setup. Thanks again this group has been a huge and greatly apprectiated help. Gene

20601. Re: [TS-520_820_530_830] 8 Pin Octal Plug and Cover

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-17 19:59:39 UTC
From: N6WK
Topic: 20594 Message: 20601

Thanks Ruben.
I checked out Radiodaze and they have exactly what I need.
Hope all is well with you.
73,
Gordon

Ruben Echevarria wrote:
>
> Try this Gordon .....
>
> http://www.kenselectronics.com/lists/pwrcord.htm
> <http://www.kenselectronics.com/lists/pwrcord.htm>
>
> I have an octal plug but no cover ....
> Ruben Echevarria KA2HHB
> SKCC #2132 EPC#3390 070 Club#861
> 10-10 International Club #33308
> 30Meter Digital Group #1148
>
> _____
> From: Gordon <n6wk@... <mailto:n6wk%40n6wk.com>>
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Tuesday, March 17, 2009 1:35:42 PM
> Subject: [TS-520_820_530_830] 8 Pin Octal Plug and Cover
>
> Anyone have a good source for a Male 8 pin Octal Plug and cover for
> use in the remote socket of the TS-820S? I need one.
>
> thanks,
> Gordon
> n6wk
>
> [Non-text portions of this message have been removed]
>
>

20602. Solved TS-830 no power on SSB

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-17 20:44:23 UTC
From: waterfield55
Topic: 20522 Message: 20602

Found the wires on the IF board Connector !3 had pulled loose. Have to love the TLC the shippers give to units. All ok now.

--- In TS-520_820_530_830@yahoogroups.com, "waterfield55" <waterfield55@...> wrote:
>
> I cracked the case, I see the IF board referred to in the survival guide, but I am unsure as to where to provide an alternative ground. Should this go from one of the screws that mount the board, or do I have to find a ground trace on the board and provide a ground at that point?
> Good thing I opened it up, my band switch was loose as well. Thankfully it was not cracked.
>
> --- In TS-520_820_530_830@yahoogroups.com, "waterfield55" <waterfield55@> wrote:
> >
> > I am new to this 830.
> > It tunes up just fine (using K4EAA procedure). When I switch to USB or LSB I have NO power. I have read all the post about it here and tried all those things. I know the mic (MC-30S)is working, it will trip the VOX. I checked the proc switch and it too appears to be ok. Put the unit into CW and I have full power. I only have a dipole cut for 20 meters so I have not checked it on other bands.
> >
> > Ah yes the newbies strike again!
> >
> > Bob
> > KD8HZC
> >
>

20603. Re: Fixed Channel Operation

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-17 22:43:27 UTC
From: w5rkl
Topic: 20589 Message: 20603

Gene,

The external VFO-820 is used for exactly what you said, split operation but ONLY on the same band. When using the remote VFO-820, all VFO frequency control functions are controlled by the VFO-820's Function switch. The VFO-820's Function switch determines which VFO is used for transmit or receive or whether the VFO-820 controls both transmit and receive frequency control. In the "OFF" position, the VFO-820 is not used to control the 820's frequency, the 820's internal VFO is.

73s
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "blacklabpupp" <blacklabpupp@...> wrote:
>
> Thanks again, I am glad someone understands the manual HI HI... What good is an outboard VFO them? I guess it is used for split freq. operation, but I doubt I have ever used it more five times on my other rig, just hunting for other CW contacts. I just love to use the 820 more. I wish years ago I would not have wasted my time in QRP and all solid state rigs. It was push and go an I really learned nothing other than the basic interal design and setup. Thanks again this group has been a huge and greatly apprectiated help. Gene
>

20604. Re: Kenwood Ts 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-17 23:13:09 UTC
From: w5rkl
Topic: 20540 Message: 20604

Mike,

Relay RL-2 is the antenna change over relay. RL-2 is located inside the metal box on the bottom of the final. You have to turn the 520 upside down with the bottom cover removed.

With the 520 upside down and the front panel facing you the final amplifier bottom will be in the left rear corner. You will see the band switch shaft connected to a coupling that further connects to a shaft that goes into a small metal box under the final amplifier. Remove the top 3 screws on top of the metal box and remove the top cover. You will see RL-2 inside the metal box.

Relay Rl-1 handles all the other relay switching functions in the 520 and it is located on the left rear under the Marker and VOX boards. Yes, the Marker and VOX boards must be removed to gain access to relay RL-1.

With the top cover removed and the front panel facing you, the Marker and VOX boards will be on the left rear of the 520. Remove both boards and you will see relay RL-1 just forward of capacitors C15 and C16.

There is no quick fix or easy way to work on the relays. Certain boards, hold down screws, and a cover plate must be removed in order to gain access to the relays.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Michael <ki0gv@...> wrote:
>
> Mike,
>
> Do you have to take all them boards on top of the radio to get to the Relay or is there a simplier method.
>
> Thank's
> ki0gv
> Mike
>
> --- On Tue, 3/17/09, w5rkl <w5rkl@...> wrote:
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: Kenwood Ts 520s
> To: TS-520_820_530_830@yahoogroups.com
> Date: Tuesday, March 17, 2009, 9:33 AM
>
>
>
>

>
>
> Hi Mike,
>
> No, I was asking Bob how well he could hear the calibrator/marker signal on his radio.
>
> However, if your radio can hear the calibrator/marker signal quite well but normal incoming signals are weak, you might want to check the antenna relay contacts, they could be quite dirty.
>
> The calibrator/marker signal feeds the coil pack on the receiver side of the antenna change over relay, meaning between the coil pack and the antenna relay, not between the antenna relay and the rear panel SO-239 antenna connection. Check the relay contacts.
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@> wrote:
> >
> > Mike,
> >
> > If you are replying to my message about low signal, but could receive. When I turn the 25 khz on, Then the meter goes about 3/4 of the way up after tuning the drive stage. But the receive is'nt as strong as it was before.
> >
> > Thanks
> > ki0gv
> > Mike
> >
> > --- On Sun, 3/15/09, w5rkl <w5rkl@> wrote:
> >
> > From: w5rkl <w5rkl@>
> > Subject: [TS-520_820_ 530_830] Re: Kenwood Ts 520s
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Date: Sunday, March 15, 2009, 10:54 AM
> >
> >
> >
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> >
> > How strong is the 520's calibrator signal?
> >
> > 73
> > Mike
> > W5RKL
> >
> > --- In TS-520_820_530_ 830@yahoogroups. com, "kc8pxs618" <kc8pxs618@ ..> wrote:
> > >

> > > I have no receive on any band. I do have tx with audio. Any help would great. Thanks Marcus AB8WR
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20605. Re: Solved TS-830 no power on SSB

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-17 23:18:45 UTC
From: w5rkl
Topic: 20522 Message: 20605

If you don't have the TS-830's operators manual you can download it free at Kenwood website. Go to the following link and scroll down to the "Amateur Radio Manuals" portion. Click on the drop down menu and scroll to and click on TS-830. When you see the word "download" on the page, click download and you'll get the entire TS-830 operators manual in pdf format, free.

http://www.kenwoodusa.com/Support/AMA_Radios/#_

73's
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "waterfield55" <waterfield55@...> wrote:
>
> Found the wires on the IF board Connector !3 had pulled loose. Have to love the TLC the shippers give to units. All ok now.
>
> --- In TS-520_820_530_830@yahoogroups.com, "waterfield55" <waterfield55@> wrote:
> >
> > I cracked the case, I see the IF board referred to in the survival guide, but I am unsure as to where to provide an alternative ground. Should this go from one of the screws that mount the board, or do I have to find a ground trace on the board and provide a ground at that point?
> > Good thing I opened it up, my band switch was loose as well. Thankfully it was not cracked.
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "waterfield55" <waterfield55@> wrote:
> > >
> > > I am new to this 830.
> > > It tunes up just fine (using K4EAA procedure). When I switch to USB or LSB I have NO power. I have read all the post about it here and tried all those things. I know the mic (MC-30S)is working, it will trip the VOX. I checked the proc switch and it too appears to be ok. Put the unit into CW and I have full power. I only have a dipole cut for 20 meters so I have not checked it on other bands.
> > >
> > > Ah yes the newbies strike again!
> > >
> > > Bob
> > > KD8HZC
> > >
> >
>

20606. Re: [TS-520_820_530_830] Re: Solved TS-830 no power on SSB

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-17 23:33:10 UTC
From: N6WK
Topic: 20522 Message: 20606

Yes, but some of the Manuals from the Kenwood Download site are of very
poor quality.
You can also fond them on my website and i try very hard to get the best
available copies for free download
www.n6wk.com/kenwood

w5rkl wrote:
>
> If you don't have the TS-830's operators manual you can download it
> free at Kenwood website. Go to the following link and scroll down to
> the "Amateur Radio Manuals" portion. Click on the drop down menu and
> scroll to and click on TS-830. When you see the word "download" on the
> page, click download and you'll get the entire TS-830 operators manual
> in pdf format, free.
>
> http://www.kenwoodusa.com/Support/AMA_Radios/#_
> <http://www.kenwoodusa.com/Support/AMA_Radios/#_>
>
> 73's
> Mike
> W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "waterfield55"
> <waterfield55@...> wrote:
> >
> > Found the wires on the IF board Connector !3 had pulled loose. Have
> to love the TLC the shippers give to units. All ok now.
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "waterfield55"
> <waterfield55@> wrote:
> > >
> > > I cracked the case, I see the IF board referred to in the survival
> guide, but I am unsure as to where to provide an alternative ground.
> Should this go from one of the screws that mount the board, or do I
> have to find a ground trace on the board and provide a ground at that
> point?
> > > Good thing I opened it up, my band switch was loose as well.
> Thankfully it was not cracked.
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "waterfield55"
> <waterfield55@> wrote:
> > > >

> > > > I am new to this 830.
> > > > It tunes up just fine (using K4EAA procedure). When I switch to
> USB or LSB I have NO power. I have read all the post about it here and
> tried all those things. I know the mic (MC-30S)is working, it will
> trip the VOX. I checked the proc switch and it too appears to be ok.
> Put the unit into CW and I have full power. I only have a dipole cut
> for 20 meters so I have not checked it on other bands.
> > > >
> > > > Ah yes the newbies strike again!
> > > >
> > > > Bob
> > > > KD8HZC
> > > >
> > >
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>

20607. Photos of location of RL-1

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-17 23:21:12 UTC
From: W0XS
Topic: 20540 Message: 20607

http://www.k4eaa.com/RL-1.htm

You can buy the RL-1 relay from his web site for $19.95

----- Original Message -----
From: w5rkl
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, March 17, 2009 6:13 PM
Subject: [TS-520_820_530_830] Re: Kenwood Ts 520s

Mike,

Relay RL-2 is the antenna change over relay. RL-2 is located inside the metal box on the bottom of the final. You have to turn the 520 upside down with the bottom cover removed.

With the 520 upside down and the front panel facing you the final amplifier bottom will be in the left rear corner. You will see the band switch shaft connected to a coupling that further connects to a shaft that goes into a small metal box under the final amplifier. Remove the top 3 screws on top of the metal box and remove the top cover. You will see RL-2 inside the metal box.

Relay Rl-1 handles all the other relay switching functions in the 520 and it is located on the left rear under the Marker and VOX boards. Yes, the Marker and VOX boards must be removed to gain access to relay RL-1.

With the top cover removed and the front panel facing you, the Marker and VOX boards will be on the left rear of the 520. Remove both boards and you will see relay RL-1 just forward of capacitors C15 and C16.

There is no quick fix or easy way to work on the relays. Certain boards, hold down screws, and a cover plate must be removed in order to gain access to the relays.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Michael <ki0gv@...> wrote:
>
> Mike,
>
> Do you have to take all them boards on top of the radio to get to the Relay or is there a simplier method.
>
> Thank's
> ki0gv
> Mike
>

> --- On Tue, 3/17/09, w5rkl <w5rkl@...> wrote:
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: Kenwood Ts 520s
> To: TS-520_820_530_830@yahoogroups.com
> Date: Tuesday, March 17, 2009, 9:33 AM
>
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>
> Hi Mike,
>
> No, I was asking Bob how well he could hear the calibrator/marker signal on his radio.
>
> However, if your radio can hear the calibrator/marker signal quite well but normal incoming signals are weak, you might want to check the antenna relay contacts, they could be quite dirty.
>
> The calibrator/marker signal feeds the coil pack on the receiver side of the antenna change over relay, meaning between the coil pack and the antenna relay, not between the antenna relay and the rear panel SO-239 antenna connection. Check the relay contacts.
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@> wrote:
> >
> > Mike,
> >
> > If you are replying to my message about low signal, but could receive. When I turn the 25 khz on, Then the meter goes about 3/4 of the way up after tuning the drive stage. But the receive is'nt as strong as it was before.
> >
> > Thanks
> > ki0gv
> > Mike
> >
> > --- On Sun, 3/15/09, w5rkl <w5rkl@> wrote:
> >
> > From: w5rkl <w5rkl@>
> > Subject: [TS-520_820_ 530_830] Re: Kenwood Ts 520s
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Date: Sunday, March 15, 2009, 10:54 AM
> >
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> >
> >
> > How strong is the 520's calibrator signal?
> >
> > 73
> > Mike
> > W5RKL
> >
> > --- In TS-520_820_530_ 830@yahoogroups. com, "kc8pxs618" <kc8pxs618@ ..> wrote:
> > >
> > > I have no receive on any band. I do have tx with audio. Any help would great. Thanks Marcus AB8WR
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20608. RE: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's Back!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-18 00:35:45 UTC
From: Tate Antrim
Topic: 20584 Message: 20608

Well.too bad.it's back.

The voltage goes up to around 900 and will fall back to 800. Sometimes it hesitates to go up at all then it will pop right up. This is when it is cold. It seems to stabilize the longer you leave it on. Perhaps it is the caps. They may be taking a bit longer to form their total capacitance due to age? HV will start at 950 and then as power output comes up on the meter the HV falls back to 800.

Plate current at times is off the scale, but when it seems to be working correctly it settles in at around 300 or so at 120W in CW.

It has been on now for about an hour and tonight it is giving me 120W at 14.070 into the dummy load. The 12BY7A is totally too hot to touch at all. I scoped it on SSB with tone input and the drive signal coming off of the drive vari-cap looks pretty good so I'm not thinking it is the driver board that is bad.

I'm leaning towards the HV now.

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
Sent: Tuesday, March 17, 2009 10:25 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS830S - Strange Behavior

What is the plate current and HV reading at 135 watts output into your dummy load and in what mode, CW or SSB?

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com> , "Tate Antrim" <kd8hja@...>
wrote:
>
> Well problem solved:
>
>
>
> After digging around and checking resistors and voltages it turns out that
> there was a cold solder joint on the parasitic suppressor connecting the
> front 6146B to the plate choke. Once that was resoldered the old girl was
> good to go. Everything seems happy now including the owner.
>
>

>
> Pumping out 135W solid on 20m into my cantenna and no tube changes. While
> the old girl is apart I'll do some cleaning and aligning maybe.
>
>
>
> Thanks to folks for suggestions.
>
>
>
> From: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
> [mailto:TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of Tate Antrim
> Sent: Monday, March 16, 2009 7:41 PM
> To: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
> Subject: RE: [TS-520_820_530_830] TS830S - Strange Behavior
>
>
>
> Running some further tests:
>
> HV - starts at 950 then backs down to 800
>
> IP - runs the gamut (In tune it will go negative)
>
> ALC - solid right hand peg on the meter
>
> RF - up and down and all around
>
> Looks like I'll have to tear the PA compartment apart.great
>
> From: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> [mailto:TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of Gordon JC
> Pearce
> MM3YEQ
> Sent: Monday, March 16, 2009 7:29 PM
> To: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Subject: Re: [TS-520_820_530_830] TS830S - Strange Behavior
>
> On Mon, 2009-03-16 at 19:20 -0400, Tate Antrim wrote:
>
> >

> > Time for new tubes all around?
>
> Dead valves wouldn't smell. Dead PA cathode resistors would though.
>
> Gordon
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20609. Re: [TS-520_820_530_830] Re: Kenwood Ts 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-18 01:13:00 UTC
From: Michael
Topic: 20540 Message: 20609

Mike,

Right after I sent you that e-mail I looked at the service manual and it showed how to take the relay's out. I should have looked there first before I asked the question.

I do have the antenna relay out and trying to get the plastic cover off.

Thank's
ki0gv
Mike

--- On Tue, 3/17/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@yahoo.com>
Subject: [TS-520_820_530_830] Re: Kenwood Ts 520s
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, March 17, 2009, 6:13 PM

Mike,

Relay RL-2 is the antenna change over relay. RL-2 is located inside the metal box on the bottom of the final. You have to turn the 520 upside down with the bottom cover removed.

With the 520 upside down and the front panel facing you the final amplifier bottom will be in the left rear corner. You will see the band switch shaft connected to a coupling that further connects to a shaft that goes into a small metal box under the final amplifier. Remove the top 3 screws on top of the metal box and remove the top cover. You will see RL-2 inside the metal box.

Relay Rl-1 handles all the other relay switching functions in the 520 and it is located on the left rear under the Marker and VOX boards. Yes, the Marker and VOX boards must be removed to gain access to relay RL-1.

With the top cover removed and the front panel facing you, the Marker and VOX boards will be on the left rear of the 520. Remove both boards and you will see relay RL-1 just forward of capacitors C15 and C16.

There is no quick fix or easy way to work on the relays. Certain boards, hold down screws, and a cover plate must be removed in order to gain access to the relays.

73
Mike
W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@...> wrote:
>
> Mike,
>

> Do you have to take all them boards on top of the radio to get to the Relay or is there a simplier method.
>
> Thank's
> ki0gv
> Mike
>
> --- On Tue, 3/17/09, w5rkl <w5rkl@...> wrote:
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_ 530_830] Re: Kenwood Ts 520s
> To: TS-520_820_530_ 830@yahoogroups. com
> Date: Tuesday, March 17, 2009, 9:33 AM
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>
> Hi Mike,
>
> No, I was asking Bob how well he could hear the calibrator/marker signal on his radio.
>
> However, if your radio can hear the calibrator/marker signal quite well but normal incoming signals are weak, you might want to check the antenna relay contacts, they could be quite dirty.
>
> The calibrator/marker signal feeds the coil pack on the receiver side of the antenna change over relay, meaning between the coil pack and the antenna relay, not between the antenna relay and the rear panel SO-239 antenna connection. Check the relay contacts.
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@> wrote:
> >
> > Mike,
> >
> > If you are replying to my message about low signal, but could receive. When I turn the 25 khz on, Then the meter goes about 3/4 of the way up after tuning the drive stage. But the receive is'nt as strong as it was before.
> >
> > Thanks
> > ki0gv
> > Mike
> >
> > --- On Sun, 3/15/09, w5rkl <w5rkl@> wrote:
> >
> > From: w5rkl <w5rkl@>

> > Subject: [TS-520_820_ 530_830] Re: Kenwood Ts 520s
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Date: Sunday, March 15, 2009, 10:54 AM
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> > How strong is the 520's calibrator signal?
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> > > I have no receive on any band. I do have tx with audio. Any help would great. Thanks Marcus AB8WR
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20610. Re: [TS-520_820_530_830] Photos of location of RL-1

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-18 01:16:00 UTC
From: Michael
Topic: 20540 Message: 20610

Mike,

I just got an e-mail back from Ken and he told me the relay's aren't the same between the 530s and the 520s.

Thanks
Mike

--- On Tue, 3/17/09, W0XS <w0xs@...> wrote:

From: W0XS <w0xs@...>
Subject: [TS-520_820_530_830] Photos of location of RL-1
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, March 17, 2009, 6:21 PM

http://www.k4eaa. com/RL-1. htm

You can buy the RL-1 relay from his web site for $19.95

----- Original Message -----
From: w5rkl
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Tuesday, March 17, 2009 6:13 PM
Subject: [TS-520_820_ 530_830] Re: Kenwood Ts 520s

Mike,

Relay RL-2 is the antenna change over relay. RL-2 is located inside the metal box on the bottom of the final. You have to turn the 520 upside down with the bottom cover removed.

With the 520 upside down and the front panel facing you the final amplifier bottom will be in the left rear corner. You will see the band switch shaft connected to a coupling that further connects to a shaft that goes into a small metal box under the final amplifier. Remove the top 3 screws on top of the metal box and remove the top cover. You will see RL-2 inside the metal box.

Relay Rl-1 handles all the other relay switching functions in the 520 and it is located on the left rear under the Marker and VOX boards. Yes, the Marker and VOX boards must be removed to gain access to relay RL-1.

With the top cover removed and the front panel facing you, the Marker and VOX boards will be on the left rear of the 520. Remove both boards and you will see relay RL-1 just forward of capacitors C15 and C16.

There is no quick fix or easy way to work on the relays. Certain boards, hold down screws, and a cover plate must be removed in order to gain access to the relays.

73
Mike
W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@...> wrote:
>
> Mike,
>
> Do you have to take all them boards on top of the radio to get to the Relay or is there a simplier method.
>
> Thank's
> ki0gv
> Mike
>
> --- On Tue, 3/17/09, w5rkl <w5rkl@...> wrote:
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_ 530_830] Re: Kenwood Ts 520s
> To: TS-520_820_530_ 830@yahoogroups. com
> Date: Tuesday, March 17, 2009, 9:33 AM
>
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>
>
> Hi Mike,
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> No, I was asking Bob how well he could hear the calibrator/marker signal on his radio.
>
> However, if your radio can hear the calibrator/marker signal quite well but normal incoming signals are weak, you might want to check the antenna relay contacts, they could be quite dirty.
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> The calibrator/marker signal feeds the coil pack on the receiver side of the antenna change over relay, meaning between the coil pack and the antenna relay, not between the antenna relay and the rear panel SO-239 antenna connection. Check the relay contacts.
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> 73
> Mike
> W5RKL
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> --- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@> wrote:
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> > Mike,
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> > If you are replying to my message about low signal, but could receive. When I turn the 25 khz on, Then the meter goes about 3/4 of the way up after tuning the drive stage. But the receive is'nt as strong as it was before.
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> > Thanks
> > ki0gv
> > Mike
> >
> > --- On Sun, 3/15/09, w5rkl <w5rkl@> wrote:
> >
> > From: w5rkl <w5rkl@>
> > Subject: [TS-520_820_ 530_830] Re: Kenwood Ts 520s
> > To: TS-520_820_530_ 830@yahoogroups. com
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20611. Re: [TS-520_820_530_830] Re: Kenwood Ts 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-18 01:19:13 UTC
From: Michael
Topic: 20540 Message: 20611

Mike,

 You say to use a contact cleaner, well the stuff I have comes from radio shack, it's a cleaner and lubricate you think that woulf work on the relay

--- On Tue, 3/17/09, Michael <ki0gv@...> wrote:

From: Michael <ki0gv@...>
Subject: Re: [TS-520_820_530_830] Re: Kenwood Ts 520s
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, March 17, 2009, 8:13 PM

Mike,

 Right after I sent you that e-mail I looked at the service manual and it showed how to take the relay's out. I should have looked there first before I asked the question.

 I do have the antenna relay out and trying to get the plastic cover off.

Thank's
ki0gv
Mike

--- On Tue, 3/17/09, w5rkl <w5rkl@yahoo. com> wrote:

From: w5rkl <w5rkl@yahoo. com>
Subject: [TS-520_820_ 530_830] Re: Kenwood Ts 520s
To: TS-520_820_530_ 830@yahoogroups. com
Date: Tuesday, March 17, 2009, 6:13 PM

Mike,

Relay RL-2 is the antenna change over relay. RL-2 is located inside the metal box on the bottom of the final. You have to turn the 520 upside down with the bottom cover removed.

With the 520 upside down and the front panel facing you the final amplifier bottom will be in the left rear corner. You will see the band switch shaft connected to a coupling that further connects to a shaft that goes into a small metal box under the final amplifier. Remove the top 3 screws on top of the metal box and remove the top cover. You will see RL-2 inside the metal box.

Relay Rl-1 handles all the other relay switching functions in the 520 and it is located on the left rear under the Marker and VOX boards. Yes, the Marker and VOX boards must be removed to gain access to relay RL-1.

With the top cover removed and the front panel facing you, the Marker and VOX boards will be on the left rear of the 520. Remove both boards and you will see relay RL-1 just forward of capacitors C15 and C16.

There is no quick fix or easy way to work on the relays. Certain boards, hold down screws, and a cover plate must be removed in order to gain access to the relays.

73
Mike
W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@...> wrote:
>
> Mike,
>
> Do you have to take all them boards on top of the radio to get to the Relay or is there a simplier method.
>
> Thank's
> ki0gv
> Mike
>
> --- On Tue, 3/17/09, w5rkl <w5rkl@...> wrote:
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_ 530_830] Re: Kenwood Ts 520s
> To: TS-520_820_530_ 830@yahoogroups. com
> Date: Tuesday, March 17, 2009, 9:33 AM
>
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>
>
> Hi Mike,
>
> No, I was asking Bob how well he could hear the calibrator/marker signal on his radio.
>
> However, if your radio can hear the calibrator/marker signal quite well but normal incoming signals are weak, you might want to check the antenna relay contacts, they could be quite dirty.
>
> The calibrator/marker signal feeds the coil pack on the receiver side of the antenna change over relay, meaning between the coil pack and the antenna relay, not between the antenna relay and the rear panel SO-239 antenna connection. Check the relay contacts.
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@> wrote:
> >
> > Mike,
> >
> > If you are replying to my message about low signal, but could receive. When I turn the 25 khz on, Then the meter goes about 3/4 of the way up after tuning the drive stage.

But the receive is'nt as strong as it was before.
> >
> > Thanks
> > ki0gv
> > Mike
> >
> > --- On Sun, 3/15/09, w5rkl <w5rkl@> wrote:
> >
> > From: w5rkl <w5rkl@>
> > Subject: [TS-520_820_ 530_830] Re: Kenwood Ts 520s
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Date: Sunday, March 15, 2009, 10:54 AM
> >
> >
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> > How strong is the 520's calibrator signal?
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> > 73
> > Mike
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> >
> > --- In TS-520_820_530_ 830@yahoogroups. com, "kc8pxs618" <kc8pxs618@ ..> wrote:
> > >
> > > I have no receive on any band. I do have tx with audio. Any help would great. Thanks
Marcus AB8WR
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20612. Re: [TS-520_820_530_830] 8 Pin Octal Plug and Cover

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-18 01:05:09 UTC
From: Jim Atkins
Topic: 20594 Message: 20612

How about RadioDaze? http://www.radiodaze.com

----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, March 17, 2009 1:35 PM
Subject: [TS-520_820_530_830] 8 Pin Octal Plug and Cover

Anyone have a good source for a Male 8 pin Octal Plug and cover for use in the remote socket of the TS-820S? I need one.

thanks,
Gordon
n6wk

[Non-text portions of this message have been removed]

20613. TS-520SE Indicated power

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-18 01:47:22 UTC
From: sv0xbq
Topic: 20613 Message: 20613

Hi,

What is the maximum power I should see on the AT-200 from a healthy TS-520se on CW?

Presently I get an indicated 100W with good reports but the sets way out of alignment and I'm waiting for new tuning slugs before I go any further. On TX, HT is 800 volts and Ip 225mA. Any higher plate current and the power out dips.

Chris

20614. Re: [TS-520_820_530_830] TS-520SE Indicated power

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-18 09:53:36 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20613 Message: 20614

On Wed, 2009-03-18 at 01:47 +0000, sv0xbq wrote:
> Hi,
>
> What is the maximum power I should see on the AT-200 from a healthy
> TS-520se on CW?

About 100W.

> Presently I get an indicated 100W with good reports but the sets way
> out of alignment and I'm waiting for new tuning slugs before I go any
> further. On TX, HT is 800 volts and Ip 225mA. Any higher plate current
> and the power out dips.

That sounds fairly healthy. What makes you think it's out of alignment?

The anode current increases and the output dips when the output stage is off-tune, because the load presented by the pi network is too light - it's effectively a series-resonant circuit connected to ground, so when it's off-tune it has a very high impedance. The instructions for tuning up are in the manual, but basically go like this:

1) Switch to TUNE mode with a dummy load on, set the CARRIER control to about half-way and the PLATE control to about the middle of the band you want.

2) Set the meter to ALC and then tune DRIVE for a peak (you may need to increase or decrease CARRIER).

3) Set the meter to IP and tune the PLATE control for a dip

4) Set the meter to RF and tune the LOAD control for a peak.

You may need to repeat the last two steps to fine-tune it, especially if your aerial is a bit off-tune - valve PA stages by necessity have a matching network similar to the one in an ATU, to transform the high output impedance from the valves to the low load impedance of the aerial. It also is a fairly high-Q filter so it knocks out a lot of unwanted harmonics, giving a lovely clean signal. Yay for boat anchors.

Gordon

20615. RE: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's Back!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-18 10:06:44 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20584 Message: 20615

On Tue, 2009-03-17 at 20:35 -0400, Tate Antrim wrote:
> Well.too bad.it's back.
>
>
>
> The voltage goes up to around 900 and will fall back to 800. Sometimes it
> hesitates to go up at all then it will pop right up. This is when it is
> cold. It seems to stabilize the longer you leave it on. Perhaps it is the
> caps. They may be taking a bit longer to form their total capacitance due
> to age? HV will start at 950 and then as power output comes up on the meter
> the HV falls back to 800.

That sounds about right - the HT should be about 950V off-load and about 800V at full power. When you say "power output comes up" do you mean as you increase the carrier control. Silly question, but you're not switching to transmit before the PA valves have warmed up? That would be a bad thing...

> Plate current at times is off the scale, but when it seems to be working
> correctly it settles in at around 300 or so at 120W in CW.

That's not right at all. It shouldn't be off the scale, ever - that indicates a serious overload. Serious like anodes glowing red hot, stripping coating off cathode, expensive noises ensue kind of serious.

The fact that it seems to settle down and work but reads 300mA suggests to me that maybe one of the cathode resistors has died. My TS-520 did some pretty odd things involving the anode current going high and weird output problems. On closer inspection, the cathode resistors were shot - one of them was split open and one of them crumbled into bits when I touched it.

> It has been on now for about an hour and tonight it is giving me 120W at
> 14.070 into the dummy load. The 12BY7A is totally too hot to touch at all.
> I scoped it on SSB with tone input and the drive signal coming off of the
> drive vari-cap looks pretty good so I'm not thinking it is the driver board
> that is bad.

120W seems pretty optimistic. The 12BY7A will get pretty hot, don't worry about that.

Gordon

20616. Re: [TS-520_820_530_830] TS-520SE Indicated power

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-18 10:28:47 UTC
From: Chris and Alex
Topic: 20613 Message: 20616

Hi Gordon and thanks.
The set was way out of alignment when I got it about 3 weeks ago. The drive knob was off 12 o'clock by varying degrees on different bands and some bands were quite deaf. I found that some of the antenna and IF slugs were damaged and jammed so I've carefully removed those and ordered some slugs from Surplus Sales over there. Meanwhile I've managed to get 20m tuned so I can use it while I wait for the post. On 20m the antenna and if look good and it's pulling signals in ok but the drive isn't as high as it could be that's why I was wondering if there's a little more RF output to find. I'm ok with tuning up the finals but what I was saying was that as I tune and increase the load, I get to 225mA and 100w and then any more increase in load causes higher plate current but a decrease in power out.

Chris

2009/3/18 Gordon JC Pearce MM3YEQ <gordon@...>

> On Wed, 2009-03-18 at 01:47 +0000, sv0xbq wrote:
> > Hi,
> >
> > What is the maximum power I should see on the AT-200 from a healthy
> > TS-520se on CW?
>
> About 100W.
>
> > Presently I get an indicated 100W with good reports but the sets way
> > out of alignment and I'm waiting for new tuning slugs before I go any
> > further. On TX, HT is 800 volts and Ip 225mA. Any higher plate current
> > and the power out dips.
>
> That sounds fairly healthy. What makes you think it's out of alignment?
>
> The anode current increases and the output dips when the output stage is
> off-tune, because the load presented by the pi network is too light -
> it's effectively a series-resonant circuit connected to ground, so when
> it's off-tune it has a very high impedance. The instructions for tuning
> up are in the manual, but basically go like this:
>
> 1) Switch to TUNE mode with a dummy load on, set the CARRIER control to
> about half-way and the PLATE control to about the middle of the band you
> want.
>
> 2) Set the meter to ALC and then tune DRIVE for a peak (you may need to
> increase or decrease CARRIER).
>
> 3) Set the meter to IP and tune the PLATE control for a dip

>
> 4) Set the meter to RF and tune the LOAD control for a peak.
>
> You may need to repeat the last two steps to fine-tune it, especially if
> your aerial is a bit off-tune - valve PA stages by necessity have a
> matching network similar to the one in an ATU, to transform the high
> output impedance from the valves to the low load impedance of the
> aerial. It also is a fairly high-Q filter so it knocks out a lot of
> unwanted harmonics, giving a lovely clean signal. Yay for boat anchors.
>
> Gordon
>
>
>

[Non-text portions of this message have been removed]

20617. Re: [TS-520_820_530_830] TS-520SE Indicated power

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-18 11:00:07 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20613 Message: 20617

On Wed, 2009-03-18 at 10:28 +0000, Chris and Alex wrote:
> Hi Gordon and thanks.
> The set was way out of alignment when I got it about 3 weeks ago. The drive
> knob was off 12 o'clock by varying degrees on different bands and some bands
> were quite deaf. I found that some of the antenna and IF slugs were damaged
> and jammed so I've carefully removed those and ordered some slugs from
> Surplus Sales over there. Meanwhile I've managed to get 20m tuned so I can
> use it while I wait for the post. On 20m the antenna and if look good and
> it's pulling signals in ok but the drive isn't as high as it could be that's
> why I was wondering if there's a little more RF output to find. I'm ok with
> tuning up the finals but what I was saying was that as I tune and increase
> the load, I get to 225mA and 100w and then any more increase in load causes
> higher plate current but a decrease in power out.

The load control is part of the pi network tuning. It's not something
you increase or decrease like a gain control, you tune it for maximum RF
output.

Gordon

20618. RE: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's Back!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-18 12:29:24 UTC
From: Tate Antrim
Topic: 20584 Message: 20618

By cold I mean I□ve given the thing 10 minutes or so to warm up. HV starts high and then over time it will drop back to 800 under full load and 850 in tune.

When the plate voltage is high there□s little output power in either tune or CW. After an hour or so if you key it, it won□t hesitate to show you output power whereas before it may take a couple of seconds to show any output and HV is back to 800/850. All the while plate voltage is moving around. Once the plate volage is very stable then it operates fine.

The only thing that really bothers me is the ALC. In tune, ALC is full scale. In CW with full output ALC is a bit more than ¾ scale.

At k4EAA□s suggestion I□m also looking at RL-1 and I□m going to replace the cathode resistors as there is about 8 ohms to ground instead of 4.5 □ 5 which could explain the amount of current I□m reading that seems a bit high □ in fact it would be almost double what is really there. I pulled the PCB in the final cage and inspected each resistor, but 8 ohms would indicate that they□ve all tended towards high ohms over time.

Even when the IP pegged it didn□t appear to result in bad things happening □ no smoke, no bright flashes. Frightening yes, but very strange.

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Gordon JC Pearce
MM3YEQ
Sent: Wednesday, March 18, 2009 6:07 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: RE: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's Back!

On Tue, 2009-03-17 at 20:35 -0400, Tate Antrim wrote:
> Well.too bad.it's back.
>
>
>
> The voltage goes up to around 900 and will fall back to 800. Sometimes it
> hesitates to go up at all then it will pop right up. This is when it is
> cold. It seems to stabilize the longer you leave it on. Perhaps it is the
> caps. They may be taking a bit longer to form their total capacitance due
> to age? HV will start at 950 and then as power output comes up on the
meter
> the HV falls back to 800.

That sounds about right - the HT should be about 950V off-load and about
800V at full power. When you say "power output comes up" do you mean as
you increase the carrier control. Silly question, but you're not

switching to transmit before the PA valves have warmed up? That would
be a bad thing...

> Plate current at times is off the scale, but when it seems to be working
> correctly it settles in at around 300 or so at 120W in CW.

That's not right at all. It shouldn't be off the scale, ever - that
indicates a serious overload. Serious like anodes glowing red hot,
stripping coating off cathode, expensive noises ensue kind of serious.

The fact that it seems to settle down and work but reads 300mA suggests
to me that maybe one of the cathode resistors has died. My TS-520 did
some pretty odd things involving the anode current going high and weird
output problems. On closer inspection, the cathode resistors were shot
- one of them was split open and one of them crumbled into bits when I
touched it.

> It has been on now for about an hour and tonight it is giving me 120W at
> 14.070 into the dummy load. The 12BY7A is totally too hot to touch at all.
> I scoped it on SSB with tone input and the drive signal coming off of the
> drive vari-cap looks pretty good so I'm not thinking it is the driver
board
> that is bad.

120W seems pretty optimistic. The 12BY7A will get pretty hot, don't
worry about that.

Gordon

[Non-text portions of this message have been removed]

20619. RE: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's Back!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-18 12:38:06 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20584 Message: 20619

On Wed, 2009-03-18 at 08:29 -0400, Tate Antrim wrote:

<snip>

> At k4EAA's suggestion I'm also looking at RL-1 and I'm going to replace the
> cathode resistors as there is about 8 ohms to ground instead of 4.5 – 5
> which could explain the amount of current I'm reading that seems a bit high
> – in fact it would be almost double what is really there. I pulled the PCB
> in the final cage and inspected each resistor, but 8 ohms would indicate
> that they've all tended towards high ohms over time.

<snip>

Until you've done that, all bets are off. It's more likely that one of
the resistors is entirely open, but they could *all* be on the way
out...

That reading is *definitely* wrong.

Gordon

20620. AT-230 Part

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-18 13:07:42 UTC
From: ka8rzl
Topic: 20620 Message: 20620

Hi
I am looking for the bandswitch for a AT-230.
Anyone parting out a AT-230 ?

73
Phil WU8P
WU8P@...

20621. Re: Kenwood Ts 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-18 15:32:35 UTC
From: w5rkl
Topic: 20540 Message: 20621

Michael,

I can't comment either way on Radio Shack contact cleaner/lubricant since I use DeoXit. It may be quite good so don't take my answer as to mean it is not good. I also recommend using canned air. You can find it at Walmart for about $5 a can. Using canned air to remove excess cleaner and dirt/dust is essential in troubleshooting.

When cleaning relays contacts, use care to ensure you do not bent or break the relay contacts. I use a thin piece of cardboard, the thickness of a match book cover. You can also use bond paper or paper used in your printer. Simply cut a small piece of paper, fold it over once so it fits between the relay contacts. Apply cleaner to a small piece of cardboard or paper and place it between the contacts, and with a back and forth motion clean the contacts. You may have to do this a couple of times, all depending on how dirty the contacts are. Again, be careful not to bend or break the relay contacts. After cleaning the contacts, flow canned air across the contacts to remove any excess contact cleaner and carbon/dirt from the contacts.

Always follow the caution/warnings on contact cleaner cans. The cleaner is flammable is it only takes a small spark to ignite it.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Michael <ki0gv@...> wrote:
>
> Mike,
>
> You say to use a contact cleaner, well the stuff I have comes from radio shack, it's a cleaner and lubricate you think that woulf work on the relay
>
> --- On Tue, 3/17/09, Michael <ki0gv@...> wrote:
>
> From: Michael <ki0gv@...>
> Subject: Re: [TS-520_820_530_830] Re: Kenwood Ts 520s
> To: TS-520_820_530_830@yahoogroups.com
> Date: Tuesday, March 17, 2009, 8:13 PM
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>
> Mike,
>
> Right after I sent you that e-mail I looked at the service manual and it showed how to

take the relay's out. I should have looked there first before I asked the question.
>
> I do have the antenna relay out and trying to get the plastic cover off.
>
>
> Thank's
> ki0gv
> Mike
>
> --- On Tue, 3/17/09, w5rkl <w5rkl@yahoo. com> wrote:
>
> From: w5rkl <w5rkl@yahoo. com>
> Subject: [TS-520_820_ 530_830] Re: Kenwood Ts 520s
> To: TS-520_820_530_ 830@yahoogroups. com
> Date: Tuesday, March 17, 2009, 6:13 PM
>
> Mike,
>
> Relay RL-2 is the antenna change over relay. RL-2 is located inside the metal box on the bottom of the final. You have to turn the 520 upside down with the bottom cover removed.
>
> With the 520 upside down and the front panel facing you the final amplifier bottom will be in the left rear corner. You will see the band switch shaft connected to a coupling that further connects to a shaft that goes into a small metal box under the final amplifier. Remove the top 3 screws on top of the metal box and remove the top cover. You will see RL-2 inside the metal box.
>
> Relay Rl-1 handles all the other relay switching functions in the 520 and it is located on the left rear under the Marker and VOX boards. Yes, the Marker and VOX boards must be removed to gain access to relay RL-1.
>
> With the top cover removed and the front panel facing you, the Marker and VOX boards will be on the left rear of the 520. Remove both boards and you will see relay RL-1 just forward of capacitors C15 and C16.
>
> There is no quick fix or easy way to work on the relays. Certain boards, hold down screws, and a cover plate must be removed in order to gain access to the relays.
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@> wrote:
> >
> > Mike,
> >
> >   Do you have to take all them boards on top of the radio to get to the Relay or is there a simplier method.
> >
> > Thank's
> > ki0gv

> > Mike
> >
> > --- On Tue, 3/17/09, w5rkl <w5rkl@> wrote:
> >
> > From: w5rkl <w5rkl@>
> > Subject: [TS-520_820_ 530_830] Re: Kenwood Ts 520s
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Date: Tuesday, March 17, 2009, 9:33 AM
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> >
> > Hi Mike,
> >
> > No, I was asking Bob how well he could hear the calibrator/marker signal on his radio.
> >
> > However, if your radio can hear the calibrator/marker signal quite well but normal incoming signals are weak, you might want to check the antenna relay contacts, they could be quite dirty.
> >
> > The calibrator/marker signal feeds the coil pack on the receiver side of the antenna change over relay, meaning between the coil pack and the antenna relay, not between the antenna relay and the rear panel SO-239 antenna connection. Check the relay contacts.
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> > 73
> > Mike
> > W5RKL
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> > --- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@> wrote:
> > >
> > > Mike,
> > >
> > > If you are replying to my message about low signal, but could receive. When I turn the 25 khz on, Then the meter goes about 3/4 of the way up after tuning the drive stage. But the receive is'nt as strong as it was before.
> > >
> > > Thanks
> > > ki0gv
> > > Mike
> > >
> > > --- On Sun, 3/15/09, w5rkl <w5rkl@> wrote:
> > >
> > > From: w5rkl <w5rkl@>
> > > Subject: [TS-520_820_ 530_830] Re: Kenwood Ts 520s
> > > To: TS-520_820_530_ 830@yahoogroups. com
> > > Date: Sunday, March 15, 2009, 10:54 AM
> > >
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> > >
> > > How strong is the 520's calibrator signal?
> > >
> > > 73
> > > Mike
> > > W5RKL
> > >
> > > --- In TS-520_820_530_ 830@yahoogroups. com, "kc8pxs618" <kc8pxs618@ ..> wrote:
> > > >
> > > > I have no receive on any band. I do have tx with audio. Any help would great. Thanks Marcus AB8WR
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20622. RE: I have for sale -- All in good condition

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-18 16:17:01 UTC
From: Rick
Topic: 20622 Message: 20622

Hi to the group -- Well, it's time for me to modernize so I am going to let these radios slip away. All are in great shape and I would like to find a good home for them... If you are interested please contact me off the group

Ts-820 -- Upgraded to an 820S w/remote VFO
Ts-820S -
Ts-520

The 820s have CW filters, the 520 does not --

Trades and price to be discussed

Thanks -- Rick NU7Z
nu7z@...

20623. Re: TS830S - Strange Behavior - It's Back!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-18 16:19:27 UTC
From: w5rkl
Topic: 20584 Message: 20623

Tate,

I agree with Gordon, replace all 4 of the final tube cathode resistors, R2 thru R5, with new 20 ohm 1/2 watt resistors.

300ma plate current in the final tubes is way too high! Continued operating the 830 at this high current level will not only cause early tube failure but it can easily result in power supply failures which could lead to failures in other components/circuits as well.

At this point and based on your comments about the cathode resistors, I disagree with your idea the problem is the HV supply. Replace all 4 of the cathode resistors then check for final amplifier stability. Only then if the problem continues would I agree to check the power supply or other areas for the source of the problem.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce MM3YEQ <gordon@...> wrote:
>
> On Wed, 2009-03-18 at 08:29 -0400, Tate Antrim wrote:
>
> <snip>
>
> > At k4EAAâ□□s suggestion Iâ□□m also looking at RL-1 and Iâ□□m going to replace the
> > cathode resistors as there is about 8 ohms to ground instead of 4.5 â□" 5
> > which could explain the amount of current Iâ□□m reading that seems a bit high
> > â□" in fact it would be almost double what is really there. I pulled the PCB
> > in the final cage and inspected each resistor, but 8 ohms would indicate
> > that theyâ□□ve all tended towards high ohms over time.
>
> <snip>
>
> Until you've done that, all bets are off. It's more likely that one of
> the resistors is entirely open, but they could *all* be on the way
> out...
>
> That reading is *definitely* wrong.
>
> Gordon
>

20624. Re: [TS-520_820_530_830] Re: Kenwood Ts 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-18 19:18:44 UTC
From: martin
Topic: 20540 Message: 20624

Hi Guys. I have made the grave error (in the past) of using Radio shack TV tuner cleaner with lubricant, and Radio shack Contact cleaner with lubricant. The lubricant seeped across circuit boards (even though I was using only a very small amount of cleaner) caused problems. It required several risnigs woth alcohol, (with appropriate periods for everything toi dry) to get rid of the lubricant.

I can only recommend DeOxit D5 for cleaning contacts and controls.
And use as little as possible to do the job.

TTYL

w5rkl wrote:
> Michael,
>
> I can't comment either way on Radio Shack contact cleaner/lubricant since I use DeoXit. It may be quite good so don't take my answer as to mean it is not good. I also recommend using canned air. You can find it at Walmart for about $5 a can. Using canned air to remove excess cleaner and dirt/dust is essential in troubleshooting.
>
> When cleaning relays contacts, use care to ensure you do not bent or break the relay contacts. I use a thin piece of cardboard, the thickness of a match book cover. You can also use bond paper or paper used in your printer. Simply cut a small piece of paper, fold it over once so it fits between the relay contacts. Apply cleaner to a small piece of cardboard or paper and place it between the contacts, and with a back and forth motion clean the contacts. You may have to do this a couple of times, all depending on how dirty the contacts are. Again, be careful not to bend or break the relay contacts. After cleaning the contacts, flow canned air across the contacts to remove any excess contact cleaner and carbon/dirt from the contacts.
>
> Always follow the caution/warnings on contact cleaner cans. The cleaner is flammable is it only takes a small spark to ignite it.
>
> 73
> Mike
> W5RKL
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more

at http://www.defectivebydesign.org/what_is_drm"

20625. RE: [TS-520_820_530_830] TS-520SE Indicated power

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-18 22:19:17 UTC
From: Phil Pavey
Topic: 20613 Message: 20625

-----Original Message-----
From: sv0xbq <alexandchrisp@...>
Sent: Wednesday, 18 March 2009 12:47 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS-520SE Indicated power

Hi,

What is the maximum power I should see on the AT-200 from a healthy TS-520se on CW?

Presently I get an indicated 100W with good reports but the sets way out of alignment and I'm waiting for new tuning slugs before I go any further. On TX, HT is 800 volts and Ip 225mA. Any higher plate current and the power out dips.

Chris

Yahoo! Groups Links

[The entire original message is not included]

20626. SP-820 Speaker

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-18 22:36:24 UTC
From: Gordon
Topic: 1439 Message: 20626

Selling a SP-820 Speaker.
Works great.Looks good
$65.00 plus shipping
Pictures upon request.

Gordon
N6WK

20627. RE: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's Back!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-19 02:23:38 UTC
From: Tate Antrim
Topic: 20584 Message: 20627

Those will be ordered tomorrow…Mind you…I don’t operate the rig continuously at 300mA that was a dead key down on the bench into a dummy load. Usually it is operating sideband.

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
Sent: Wednesday, March 18, 2009 12:19 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's Back!

Tate,

I agree with Gordon, replace all 4 of the final tube cathode resistors, R2 thru R5, with new 20 ohm 1/2 watt resistors.

300ma plate current in the final tubes is way too high! Continued operating the 830 at this high current level will not only cause early tube failure but it can easily result in power supply failures which could lead to failures in other components/circuits as well.

At this point and based on your comments about the cathode resistors, I disagree with your idea the problem is the HV supply. Replace all 4 of the cathode resistors then check for final amplifier stability. Only then if the problem continues would I agree to check the power supply or other areas for the source of the problem.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com <mailto:TS-520_820_530_830%40yahoogroups.com> , Gordon JC Pearce MM3YEQ <gordon@...> wrote:
>
> On Wed, 2009-03-18 at 08:29 -0400, Tate Antrim wrote:
>
> <snip>
>
> > At k4EAAâ€™s suggestion Iâ€™m also looking at RL-1 and Iâ€™m going to replace the
> > cathode resistors as there is about 8 ohms to ground instead of 4.5 â€" 5
> > which could explain the amount of current Iâ€™m reading that seems a bit high
> > â€" in fact it would be almost double what is really there. I pulled the PCB
> > in the final cage and inspected each resistor, but 8 ohms would indicate
> > that theyâ€™ve all tended towards high ohms over time.
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> <snip>
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> Until you've done that, all bets are off. It's more likely that one of
> the resistors is entirely open, but they could *all* be on the way
> out...
>

> That reading is *definitely* wrong.
>
> Gordon
>

[Non-text portions of this message have been removed]

20628. RF and Grounding

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-19 03:24:30 UTC
From: Gmail - Kevin, Natalia, Stacey & Rochelle
Topic: 20628 Message: 20628

Hi All,

Not exactly just related to this group, but the incient happened when using my TS-830.
I was in the process of tuning my radio up and got a nice RF shock from the mic socket, had just flipped to the TX/RX switch TX.
I do know there is a little SWR on the antenna, but it is still below 2:1.

I have not got around to connecting the earth cable I installed when I build the radio shack.
Which brings me to my question.
The earth cable I have is connected to the house earth, to the earth stake outside.
I read somewhere that it running 2x earths could cause earth loops?
So here I am about to connect this earth to the radio shack wall to connect all my radios.
Am I about to do the right thing, or should I install a seperate earth just for the radios?

My concern is, if there is any RF coming back to the radio and then hopefully down the earth, would it effect or get into any of the house-hold appilances that are inside. (We run 3x wires, Phase, Nautral and Earth at 240VAC)

Regards for any Advice.

Kevin, ZL1KFM.

[Non-text portions of this message have been removed]

20629. Receive of TS-520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-19 07:02:48 UTC
From: Michael
Topic: 20629 Message: 20629

Well back to the group again. I'm still having low receive, I took the relay'as out cleaned them. While I was looking at the RF board, I experimented and took the FET transistors out one at a time turning the radio off and back on each time, Well all them made a difference until I took Q 1 out and it didnt make any difference weather it was in or out of the board. I looked up to see what it affected and it's an amplifier transsitor for both Receive and Transmit. So shouldn't it make a difference on the receive part? And next question where can you get a replacement if it's defective.

Thanks
ki0gv
Mike

20630. Re: Receive of TS-520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-19 13:47:43 UTC
From: w5rkl
Topic: 20629 Message: 20630

Mike,

Q1 on the RF Unit is the transmit mixer and is not part of the
receive signal path.

The 520S has a variable IF frequency that is between 8.295Mhz and
8.895Mhz. This signal, in receive, is called the "RIF" frequency
(Recieve IF). In transmit, the signal is called the "TIF" frequency
(Transmit IF), both within the same 8.295Mhz to 8.895Mhz range.

Here's an example of how an incoming 80 meter 3.500Mhz signal flows
through the RF amplifier, mixed in the first receiver mixer, and then
passed on to the IF Unit. The same process occurs on each band but
the selection of the mixer's output frequency, SUM or DIFFERENCE,
depends on the band. The ultimate mixing process MUST produce a
frequency between 8.295Mhz and 8.895Mhz.

An incoming 3.500Mhz signal is amplified by RF amplifier Q3 then fed
to the receiver's first mixer, Q2. The incoming signal and the local
oscillator signal, Q6 and Q7, are mixed in Q2 producing a SUM, and a
DIFFERENCE frequency. Since the desired signal must be between
8.295Mhz and 8.895Mhz, and the local oscillator signal is 12.395Mhz,
the mixer's output "DIFFERENCE" frequency is used which produces a
signal of "8.895Mhz", the RIF frequency (12.395 - 3.500 = 8.895Mhz).
The 8.895Mhz signal is then passed to the IF Unit for further
processing.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Michael" <ki0gv@...> wrote:
>
> Well back to the group again. I'm still having low receive, I took the relay'as out cleaned them. While I was looking at the RF board, I experimented and took the FET transistors out one at a time turning the radio off and back on each time, Well all them made a difference until I took Q 1 out and it didnt make any difference weather it was in or out of the board. I looked up to see what it affected and it's an amplifier transsitor for both Receive and Transmit. So shouldn't it make a difference on the receive part? And next question where can you get a replacement if it's defective.
>
> Thanks
> ki0gv
> Mike
>

20631. TS-520S Incoming signal flow and Q1 on the RF Unit board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-19 13:54:41 UTC
From: w5rkl
Topic: 20631 Message: 20631

Mike,

I posted a response to your question/comment about the 520S's RF Unit's Q1 transistor but it didn't appear to make it, got lost in the bit bucket I guess. Therefore, I am posting my response as a separate post.

Q1 on the RF Unit is the transmit mixer and is not part of the receive signal path.

The 520S has a variable IF frequency that is between 8.295Mhz and 8.895Mhz. This signal, in receive, is called the "RIF" frequency (Recieve IF). In transmit, the signal is called the "TIF" frequency (Transmit IF), both within the same 8.295Mhz to 8.895Mhz range.

Here's an example of how an incoming 80 meter 3.500Mhz signal flows through the RF amplifier, mixed in the first receiver mixer, and then passed on to the IF Unit. The same process occurs on each band but the selection of the mixer's output frequency, SUM or DIFFERENCE, depends on the band. The ultimate mixing process MUST produce a frequency between 8.295Mhz and 8.895Mhz.

An incoming 3.500Mhz signal is amplified by RF amplifier Q3 then fed to the receiver's first mixer, Q2. The incoming signal and the local oscillator signal, Q6 and Q7, are mixed in Q2 producing a SUM, and a DIFFERENCE frequency. Since the desired signal must be between 8.295Mhz and 8.895Mhz, and the local oscillator signal is 12.395Mhz, the mixer's output "DIFFERENCE" frequency is used which produces a signal of "8.895Mhz", the RIF frequency (12.395 - 3.500 = 8.895Mhz). The 8.895Mhz signal is then passed to the IF Unit for further processing.

73
Mike
W5RKL

20632. RIT switch for TS-830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-19 19:26:20 UTC
From: Gordon
Topic: 20632 Message: 20632

I need the push button RIT switch for my 830.
Mine doesn't stay in when pushed once.
Anyone have an extra?

thanks,
Gordon
N6WK

20633. Re: [TS-520_820_530_830] TS-520S Incoming signal flow and Q1 on the RF Unit board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-19 21:02:19 UTC
From: Michael
Topic: 20631 Message: 20633

Mike,

Thanks a bunch for telling me the receive path of the 520 in which I'm starting thru now, Something else I didn't mention was after I cleaned all the contacts on the radio I also installed a different RF/AF control on the front of the radio because I though the original was bad. Do you think that the radio could possibly need re-alignment because of all what I did?

Thanks
ki0gv
Mike

--- On Thu, 3/19/09, w5rkl <w5rkl@yahoo.com> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] TS-520S Incoming signal flow and Q1 on the RF Unit board
To: TS-520_820_530_830@yahoogroups.com
Date: Thursday, March 19, 2009, 8:54 AM

Mike,

I posted a response to your question/comment about the 520S's RF Unit's Q1 transistor but it didn't appear to make it, got lost in the bit bucket I guess. Therefore, I am posting my response as a separate post.

------------ ---

Q1 on the RF Unit is the transmit mixer and is not part of the
receive signal path.

The 520S has a variable IF frequency that is between 8.295Mhz and
8.895Mhz. This signal, in receive, is called the "RIF" frequency
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oscillator signal, Q6 and Q7, are mixed in Q2 producing a SUM, and a
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8.295Mhz and 8.895Mhz, and the local oscillator signal is 12.395Mhz, the mixer's output "DIFFERENCE" frequency is used which produces a signal of "8.895Mhz", the RIF frequency (12.395 - 3.500 = 8.895Mhz). The 8.895Mhz signal is then passed to the IF Unit for further processing.

73
Mike
W5RKL

[Non-text portions of this message have been removed]

20634. Re: TS-520S Incoming signal flow and Q1 on the RF Unit board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-20 03:18:17 UTC
From: w5rkl
Topic: 20631 Message: 20634

Hello Mike,

Bad RF and AF controls can be easily determined by simply rotating them. Rotating the RF gain control counter clockwise and clockwise should cause the S meter to rise and fall with any irregular meter movement. Rotating the AF gain control both ways should cause the audio to increase and decrease without popping or scratchiness. If both controls do not exhibit scratchiness and/or irregular meter movements, then the controls are fine. Any irregularities and/or scratchiness, clean the pots with contact cleaner. More often than not, RF and AF gain controls do not fail, they usually only get dirty.

I can't say for sure whether your 520S requires an alignment or not. There is one thing you can do and that's to measure and, if necessary, adjust the 3.3VDC and 9VDC pots on the FIX CH AVR board. You should have the 520S service manual when performing any maintenance on the 520. If you don't have the service manual, you can download it free at the following website.

http://www.n6wk.com/kenwood/

Scroll down the page and click on TS-520S service manual. You will need the Adobe reader to view the manual.

Once downloaded, click on the manual's icon in the folder you save it to and when Adobe loads the manual, go to page "16". This page shows the FIX CH AVR board which will help you locate the terminals you will need to connect your volt meter to, to set the 9 and 3.3 volts.

The FIX CH AVR board is located directly behind the VFO on top of the chassis.

Adobe page 14 shows the top and bottom of the 520S and where each board is located by name and board number. The FIX CH AVR board is X43-1100-00.

To help you, use a digital volt meter and connect the red lead to terminal "9" on the FIX CH AVR board and the black lead to chassis ground. Locate VR1 pot on the FIX CH AVR board and if necessary, adjust VR1 so the volt meter reads 9VDC, +/- .1VDC.

Move the red lead to terminal RF1 on the FIX CH AVR board and again, if necessary, adjust VR3 on the FIX CH AVR board so the volt meter reads 3.3VDC, +/- .1VDC.

Adjust the 9 volts (VR1) "first" then the 3.3 volts (VR3).

Recheck both voltages and adjust accordingly.

Let the 520S warm up for approximately 30 minutes before performing the voltage checks and adjustments. This allows the 520S to warm up to operating temperature.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Michael <ki0gv@...> wrote:
>
> Mike,
>
> Thanks a bunch for telling me the receive path of the 520 in which I'm starting thru now, Something else I didn't mention was after I cleaned all the contacts on the radio I also installed a different RF/AF control on the front of the radio because I though the original was bad. Do you think that the radio could possibly need re-alignment because of all what I did?
>
> Thanks
> ki0gv
> Mike
>
> --- On Thu, 3/19/09, w5rkl <w5rkl@...> wrote:
>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] TS-520S Incoming signal flow and Q1 on the RF Unit board
> To: TS-520_820_530_830@yahoogroups.com
> Date: Thursday, March 19, 2009, 8:54 AM
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>
> Mike,
>
> I posted a response to your question/comment about the 520S's RF Unit's Q1 transistor but it didn't appear to make it, got lost in the bit bucket I guess. Therefore, I am posting my response as a separate post.
>
> ------------ ---
>
> Q1 on the RF Unit is the transmit mixer and is not part of the
> receive signal path.
>
> The 520S has a variable IF frequency that is between 8.295Mhz and
> 8.895Mhz. This signal, in receive, is called the "RIF" frequency
> (Recieve IF). In transmit, the signal is called the "TIF" frequency
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> Here's an example of how an incoming 80 meter 3.500Mhz signal flows
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> frequency between 8.295Mhz and 8.895Mhz.
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> An incoming 3.500Mhz signal is amplified by RF amplifier Q3 then fed

> to the receiver's first mixer, Q2. The incoming signal and the local
> oscillator signal, Q6 and Q7, are mixed in Q2 producing a SUM, and a
> DIFFERENCE frequency. Since the desired signal must be between
> 8.295Mhz and 8.895Mhz, and the local oscillator signal is 12.395Mhz,
> the mixer's output "DIFFERENCE" frequency is used which produces a
> signal of "8.895Mhz", the RIF frequency (12.395 - 3.500 = 8.895Mhz).
> The 8.895Mhz signal is then passed to the IF Unit for further
> processing.
>
> 73
> Mike
> W5RKL
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> [Non-text portions of this message have been removed]
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20635. RE: [TS-520_820_530_830] question re ts 830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-19 23:59:41 UTC
From: Garrett, Russ
Topic: 20632 Message: 20635

I just purchased a ts 830s and have opened it up, checked it out and it's nice and clean. Serial number is over 1 million but below 2 million.

The XF1 8.83 mhz filter 2.7khz bandwidth has been replaced by what appears to be a Collins 8.83 mhz with a bandwidth of 2.1 Khz.

The optional 455 khz CW filter has been installed with what appears to be a Collins 455 khz with a bandwidth of 300 hz. (there is tape over the filters so I cannot determine the mfg but they are not trio-kenwood filters as they wouldn't fit into the pre-drilled holes and are larger)

Observations: when the radio is in SSB mode and the audio output is observed with an audio spectrum analyzer, the radio operates correctly as outlined in the specifications of the KF1 Collins filter with a lower cut-off frequency of approx 60 hz and an upper cut-off frequency of 2.1 Khz. This is true for both upper and lower sidebands and the radio operates correctly.

Problem: IN CW mode, which is using the narrow Collins optional cw filter with a center frequency of 455 Khz and a bandwidth of 300hz, the lower cut off frequency is observed on an audio spectrum analyzer is about 150 hz and the upper cutoff frequency is about 450 hz which is too low for the cw to zero beat with the intermediate audio tone oscillator. However, If I use the IF Shift, I can move the center frequency of the cw filter to 800 hz and then the radio operates correctly and zero beating can be achieved.

Question: what adjustment should be made so that the cw filter will be centered at 800 hz and the IF shift can remain in the zero position?

Thanks

Russ kd7mpk

mail.bullivant.com made the following annotations

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[Non-text portions of this message have been removed]

20636. ts 830s question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-20 16:56:20 UTC
From: Garrett, Russ
Topic: 20636 Message: 20636

I just purchased a ts 830s and have opened it up, checked it out and it's nice and clean. Serial number is over 1 million but below 2 million.

The XF1 8.83 mhz filter 2.7khz bandwidth has been replaced by what appears to be a Collins 8.83 mhz with a bandwidth of 2.1 Khz.
The optional 455 khz CW filter has been installed with what appears to be a Collins 455 khz with a bandwidth of 300 hz. (there is tape over the filters so I cannot determine the mfg but they are not trio-kenwood filters as they wouldn't fit into the pre-drilled holes and are larger)

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Problem: IN CW mode, which is using the narrow Collins optional cw filter with a center frequency of 455 Khz and a bandwidth of 300hz, the lower cut off frequency is observed on an audio spectrum analyzer is about 150 hz and the upper cutoff frequency is about 450 hz which is too low for the cw to zero beat with the intermediate audio tone oscillator. However, If I use the IF Shift, I can move the center frequency of the cw filter to 800 hz and then the radio operates correctly and zero beating can be achieved.

Question: what adjustment should be made so that the cw filter will be centered at 800 hz and the IF shift can remain in the zero position?

Thanks
Russ kd7mpk

mail.bullivant.com made the following annotations

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****
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If you have received this e-mail in error, please immediately notify the sender by reply

e-mail and destroy all copies of the original message.

[Non-text portions of this message have been removed]

20637. 25 kz Cal

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-20 20:54:20 UTC
From: blacklabpupp
Topic: 20637 Message: 20637

I have never used one but what is the proper way to use the 25kz Cal? When I set it up I hear noise all around it marker. What is the determing factor where it should be set? To me the manual is not all that clear about it. Is the marker sound to be beat with the side tone? Also when the band switch is on WWV, what is it that I am looking for? All the best Gene

20638. Re: 25 kz Cal

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-20 23:57:34 UTC
From: w5rkl
Topic: 20637 Message: 20638

Gene,

The 25Khz marker is used to calibrate the dial at even 100Khz dial setting plus ever 25Khz.

WWV is the National Bureau Of Standards time. Their transmitters operate on various HF frequencies from 2.5, 5Mhz, 10Mhz, 15Mhz etc.

JJY on the band switch is the Japanese equivalent of WWV. Unless conditions are good you most likely will not hear JJY but rather WWV.

The Kenwood Hybrids have a "JJY" band switch setting that tunes from 15Mhz to 15.500Mhz. Turn on the Marker, set the band switch to JJY, and tune the dial to 15Mhz. The Marker signal and WWV should zero beat at the same point on the dial. If the Marker zero beats at a slightly different dial setting, zero beat WWV then adjust the Marker adjust capacitor inside the radio so the Marker and WWV zero beat at the same point on the dial.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "blacklabpupp" <blacklabpupp@...> wrote:
>
> I have never used one but what is the proper way to use the 25kz Cal? When I set it up I hear noise all around it marker. What is the determing factor where it should be set? To me the manual is not all that clear about it. Is the marker sound to be beat with the side tone? Also when the band switch is on WWV, what is it that I am looking for? All the best
Gene
>

20639. Re: ts 830s question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-21 00:03:48 UTC
From: w5rkl
Topic: 20636 Message: 20639

Sounds like the CW carrier generator frequency is slightly off frequency.

The alignment procedures for the TS-830 are covered in the TS-830 service manual which you can download at the following website.

http://www.n6wk.com/kenwood/

Scroll down and click on TS-830S/M Service Manual. The manual is in pdf format so you will the Adobe reader to view the manual.

While you are at it, download the high resolution TS-830 schematic, it is a great addition to the service manual. Scroll down until you find the TS-830 high resolution schematic from K4EAA then click and save it to a folder on your computer. It will come in handy especially since it is color coded voltages and signal paths etc.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Garrett, Russ" <russ.garrett@...> wrote:
>
>
> I just purchased a ts 830s and have opened it up, checked it out and
> it's nice and clean. Serial number is over 1 million but below 2
> million.
>
> The XF1 8.83 mhz filter 2.7khz bandwidth has been replaced by what
> appears to be a Collins 8.83 mhz with a bandwidth of 2.1 Khz.
> The optional 455 khz CW filter has been installed with what appears to
> be a Collins 455 khz with a bandwidth of 300 hz. (there is tape over
> the filters so I cannot determine the mfg but they are not trio-kenwood
> filters as they wouldn't fit into the pre-drilled holes and are larger)
>
> Observations: when the radio is in SSB mode and the audio output is
> observed with an audio spectrum analyzer, the radio operates correctly
> as outlined in the specifications of the KF1 Collins filter with a lower
> cut-off frequency of approx 60 hz and an upper cut-off frequency of 2.1
> Khz. This is true for both upper and lower sidebands and the radio
> operates correctly.
>
> Problem: IN CW mode, which is using the narrow Collins optional cw
> filter with a center frequency of 455 Khz and a bandwidth of 300hz, the
> lower cut off frequency is observed on an audio spectrum analyzer is
> about 150 hz and the upper cutoff frequency is about 450 hz which is too
> low for the cw to zero beat with the intermediate audio tone oscillator.
> However, If I use the IF Shift, I can move the center frequency of the

> cw filter to 800 hz and then the radio operates correctly and zero
> beating can be achieved.
>
> Question: what adjustment should be made so that the cw filter will be
> centered at 800 hz and the IF shift can remain in the zero position?
>
> Thanks
> Russ kd7mpk
>
>
>
>
> mail.bullivant.com made the following annotations
> ---
> Please be advised that, unless expressly stated otherwise, any U.S. federal tax advice contained in this e-mail, including attachments, is not intended to be used by any person for the purpose of avoiding any penalties that may be imposed by the Internal Revenue Service.
> **********
> This e-mail is for the sole use of the intended recipient(s) and contains information belonging to Bullivant Houser Bailey, which is confidential and/or legally privileged. If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution or taking of any action in reliance on the contents of this e-mail information is strictly prohibited.
> If you have received this e-mail in error, please immediately notify the sender by reply e-mail and destroy all copies of the original message.
>
> ---
>
>
>
> [Non-text portions of this message have been removed]
>

20640. Re: [TS-520_820_530_830] 25 kz Cal

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-21 00:58:23 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20637 Message: 20640

On Fri, 2009-03-20 at 20:54 +0000, blacklabpupp wrote:
> I have never used one but what is the proper way to use the 25kz Cal?
> When I set it up I hear noise all around it marker. What is the
> determing factor where it should be set? To me the manual is not all
> that clear about it. Is the marker sound to be beat with the side
> tone? Also when the band switch is on WWV, what is it that I am
> looking for? All the best Gene

Turn the calibrator on, and every 25kHz you'll hear a very very loud carrier - that's the calibrator.

Now, what you do is you switch on the calibrator, tune for zero beat (the pitch of the whistle from the calibrator drops to nothing) and set the slippy dial on the VFO knob so that the 0 (or 25kHz steps) marker points to the USB or LSB marker beside the knob, depending on what mode you're in.

So, you tune to 14.075MHz, with the calibrator on you tune the VFO for zero beat, and then slip the outer dial round so that "75" lines up with the "USB" marking on the right.

It's all in the manual ;-)

Gordon

20641. Fw: TS-820S Counter Module

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-21 06:19:20 UTC
From: jsloss
Topic: 20641 Message: 20641

I have a need for a Mixer Board from the Counter Module.

If none is to be found then I'd like to swap emails w/ someone who comfortable discussing the 10 MHz crystal circuit in the Mixer board.

Thanks,

Joe k7mks

[Non-text portions of this message have been removed]

20642. Re: 25 kz Cal

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-22 01:41:05 UTC
From: blacklabpupp
Topic: 20637 Message: 20642

Something must be really wrong here because I cant do it. I have read the manual over and over, read and reread the posts on this an its just not what you fellows are descirbing. I think I will go down to a repair shop and see after hours if we can align or change somethings. Talking about getting my feet wet, looks more like I jumped into the lake. Gene

20643. Re: 25 kz Cal

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-22 05:24:59 UTC
From: sv0xbq
Topic: 20637 Message: 20643

Hi Gene,

I think I know what you mean about the 25KHz marker signal. It can be spread about the frequency that you're trying to calibrate and it's worse on some bands than others. As well as listening to the tone, peak the S meter. Also if you use it in cw mode you can listen for the zero beat. I've compared the 520se tuning with the digital readout on an ic-735 and I don't need a digital display. I'm surprised at it's accuracy.

Chris

--- In TS-520_820_530_830@yahoogroups.com, "blacklabpupp" ad <blacklabpupp@...> wrote:
>
> I have never used one but what is the proper way to use the 25kz Cal? When I set it up I hear noise all around it marker. What is the determing factor where it should be set? To me the manual is not all that clear about it. Is the marker sound to be beat with the side tone? Also when the band switch is on WWV, what is it that I am looking for? All the best Gene
>

20644. Re: [TS-520_820_530_830] Re: 25 kz Cal

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-22 09:15:31 UTC
From: Gordon JC Pearce
Topic: 20637 Message: 20644

blacklabpupp wrote:
> Something must be really wrong here because I cant do it. I have read the manual over and over, read and reread the posts on this an its just not what you fellows are descirbing. I think I will go down to a repair shop and see after hours if we can align or change somethings. Talking about getting my feet wet, looks more like I jumped into the lake. Gene

Okay, describe what exactly is happening when you try it.

With the calibrator switch on, you should hear a loud carrier every
25kHz. Turn the RF gain all the way up and disconnect the aerial so you
don't get distracted by other signals, for now, and tell us if you hear
a regular "whooop whooop whooop" as you spin the dial...

Gordon

20645. Re: [TS-520_820_530_830] Re: TS-520S Incoming signal flow and Q1 on the RF Unit board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-23 01:57:56 UTC
From: Michael
Topic: 20631 Message: 20645

Hi Mike,

I've decided to take the radio back to the place where I purchased it. They have a tech. there that is available on Saturdays and I spoke with him this past saturday and he said it sound like something just quite working (I know that). I can't find the cause and I don't have the test equipment to trouble-shoot for the problem. I really appreciate all the help you give me along with all the other's in this group. I will get back with the group to let everyone know what the problem was.

Thanks
ki0gv
Mike

--- On Thu, 3/19/09, w5rkl <w5rkl@...> wrote:

> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: TS-520S Incoming signal flow and Q1 on the RF Unit board
> To: TS-520_820_530_830@yahoogroups.com
> Date: Thursday, March 19, 2009, 10:18 PM
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>
> Hello Mike,
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>
>
> Bad RF and AF controls can be easily determined by simply
> rotating them. Rotating the RF gain control counter
> clockwise and clockwise should cause the S meter to rise and

> fall with any irregular meter movement. Rotating the AF gain
> control both ways should cause the audio to increase and
> decrease without popping or scratchiness. If both controls
> do not exhibit scratchiness and/or irregular meter
> movements, then the controls are fine. Any irregularities
> and/or scratchiness, clean the pots with contact cleaner.
> More often than not, RF and AF gain controls do not fail,
> they usually only get dirty.
>
>
>
> I can't say for sure whether your 520S requires an
> alignment or not. There is one thing you can do and
> that's to measure and, if necessary, adjust the 3.3VDC
> and 9VDC pots on the FIX CH AVR board. You should have the
> 520S service manual when performing any maintenance on the
> 520. If you don't have the service manual, you can
> download it free at the following website.
>
>
>
> http://www.n6wk.
> com/kenwood/
>
>
>
> Scroll down the page and click on TS-520S service manual.
> You will need the Adobe reader to view the manual.
>
>
>
> Once downloaded, click on the manual's icon in the
> folder you save it to and when Adobe loads the manual, go to
> page "16". This page shows the FIX CH AVR board
> which will help you locate the terminals you will need to
> connect your volt meter to, to set the 9 and 3.3 volts.
>
>
>
> The FIX CH AVR board is located directly behind the VFO on
> top of the chassis.
>
>
>
> Adobe page 14 shows the top and bottom of the 520S and
> where each board is located by name and board number. The
> FIX CH AVR board is X43-1100-00.
>
>
>

> To help you, use a digital volt meter and connect the red
> lead to terminal "9" on the FIX CH AVR board and
> the black lead to chassis ground. Locate VR1 pot on the FIX
> CH AVR board and if necessary, adjust VR1 so the volt meter
> reads 9VDC, +/- .1VDC.
>
>
>
> Move the red lead to terminal RF1 on the FIX CH AVR board
> and again, if necessary, adjust VR3 on the FIX CH AVR board
> so the volt meter reads 3.3VDC, +/- .1VDC.
>
>
>
> Adjust the 9 volts (VR1) "first" then the 3.3
> volts (VR3).
>
>
>
> Recheck both voltages and adjust accordingly.
>
>
>
> Let the 520S warm up for approximately 30 minutes before
> performing the voltage checks and adjustments. This allows
> the 520S to warm up to operating temperature.
>
>
>
> 73
>
> Mike
>
> W5RKL
>
>
>
> --- In TS-520_820_530_
> 830@yahoogroups. com, Michael <ki0gv@...> wrote:
>
> >
>
> > Mike,
>
> >
>
> > Thanks a bunch for telling me the receive path of
> the 520 in which I'm starting thru now, Something else
> I didn't mention was after I cleaned all the contacts on
> the radio I also installed a different RF/AF control on

> the front of the radio because I though the original was
> bad. Do you think that the radio could possibly need
> re-alignment because of all what I did?
>
> >
>
> > Thanks
>
> > ki0gv
>
> > Mike
>
> >
>
> > --- On Thu, 3/19/09, w5rkl <w5rkl@...> wrote:
>
> >
>
> >
>
> > From: w5rkl <w5rkl@...>
>
> > Subject: [TS-520_820_ 530_830] TS-520S Incoming signal
> flow and Q1 on the RF Unit board
>
> > To: TS-520_820_530_
> 830@yahoogroups. com
>
> > Date: Thursday, March 19, 2009, 8:54 AM
>
> >
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>
> > Mike,
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> >
>
> > I posted a response to your question/comment about the
> 520S's RF Unit's Q1 transistor but it didn't
> appear to make it, got lost in the bit bucket I guess.
> Therefore, I am posting my response as a separate post.

>
> >
>
> > ------------ ---
>
> >
>
> > Q1 on the RF Unit is the transmit mixer and is not
> part of the
>
> > receive signal path.
>
> >
>
> > The 520S has a variable IF frequency that is between
> 8.295Mhz and
>
> > 8.895Mhz. This signal, in receive, is called the
> "RIF" frequency
>
> > (Recieve IF). In transmit, the signal is called the
> "TIF" frequency
>
> > (Transmit IF), both within the same 8.295Mhz to
> 8.895Mhz range.
>
> >
>
> > Here's an example of how an incoming 80 meter
> 3.500Mhz signal flows
>
> > through the RF amplifier, mixed in the first receiver
> mixer, and then
>
> > passed on to the IF Unit. The same process occurs on
> each band but
>
> > the selection of the mixer's output frequency, SUM
> or DIFFERENCE,
>
> > depends on the band. The ultimate mixing process MUST
> produce a
>
> > frequency between 8.295Mhz and 8.895Mhz.
>
> >
>
> > An incoming 3.500Mhz signal is amplified by RF
> amplifier Q3 then fed
>

> > to the receiver's first mixer, Q2. The incoming
> signal and the local
>
> > oscillator signal, Q6 and Q7, are mixed in Q2
> producing a SUM, and a
>
> > DIFFERENCE frequency. Since the desired signal must be
> between
>
> > 8.295Mhz and 8.895Mhz, and the local oscillator signal
> is 12.395Mhz,
>
> > the mixer's output "DIFFERENCE"
> frequency is used which produces a
>
> > signal of "8.895Mhz", the RIF frequency
> (12.395 - 3.500 = 8.895Mhz).
>
> > The 8.895Mhz signal is then passed to the IF Unit for
> further
>
> > processing.
>
> >
>
> > 73
>
> > Mike
>
> > W5RKL
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> > [Non-text portions of this message have been removed]
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>

20646. Re: TS-520S Incoming signal flow and Q1 on the RF Unit board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-23 11:29:38 UTC
From: w5rkl
Topic: 20631 Message: 20646

Hi Mike,

Sounds like the tech had no idea what was wrong. Maybe because he is not familiar with Kenwood hybrids.

Did you say the Marker/Calibrator signal was quite strong but you could not hear any incoming signals? If that's true, check the rear panel's REC ANT switch, it should be placed in the "NORMAL" position. The "REC ANT" position is for a separate receive antenna connected to the EXT REC ANT connection which is not the same as the antenna connected to the rear SO-239.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Michael <ki0gv@...> wrote:
>
>
> Hi Mike,
>
> I've decided to take the radio back to the place where I purchased it. They have a tech. there that is available on Saturdays and I spoke with him this past saturday and he said it sound like something just quite working (I know that). I can't find the cause and I don't have the test equipment to trouble-shoot for the problem. I really appreciate all the help you give me along with all the other's in this group. I will get back with the group to let everyone know what the problem was.
>
>
> Thanks
> ki0gv
> Mike
>

20647. Re: Fw: TS-820S Counter Module

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-23 12:57:44 UTC
From: Bob Mansker
Topic: 20641 Message: 20647

Hi Joe,
I have the complete housing that contains the mixer bd.(X54-1150-00) & the Counter bd. (X54-1160-00)...
I normally sell it as a complete unit...
Thanks,
Bob
KE5FTF
****

--- In TS-520_820_530_830@yahoogroups.com, "jsloss" <k7mks@...> wrote:
>
>
>
>
>
>
> I have a need for a Mixer Board from the Counter Module.
>
> If none is to be found then I'd like to swap emails w/ someone who comfortable discussing the 10 MHz crystal circuit in the Mixer board.
>
> Thanks,
>
> Joe k7mks
>
> [Non-text portions of this message have been removed]
>

20648. To Soft Key or not??

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-23 15:58:37 UTC
From: Gary
Topic: 20648 Message: 20648

Hi Everyone
I have a question that may be a little bizarre. I bought a SB-201 amp about a year ago and now am just getting around to setting it up to use. It had the Soft Key mod done and now I want to use it with a Kenwood TS-520. The question is, can I use the amp with the Soft Key mod or should I remove the mod and use it with the
original wireing? As I understand it the mod reduces the keying voltage to use with the modern sets. Will it still key the older sets??

Thanks
Gary KE7KPI

20649. Re: [TS-520_820_530_830] Re: TS-520S Incoming signal flow and Q1 on the RF Unit board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-23 20:13:05 UTC
From: Michael
Topic: 20631 Message: 20649

Mike,

I just checked the antenna switch and it didn't seem to make any difference wheather the switch was normal or rec. ant. the receive stayed the same. As far as the marker goes when I tune it on the 80 meter band it goes about 2/3 of the way up the meter. I don't know if that is the normal position for it or not.

Thanks
ki0gv
Mike

--- On Mon, 3/23/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: TS-520S Incoming signal flow and Q1 on the RF Unit board
To: TS-520_820_530_830@yahoogroups.com
Date: Monday, March 23, 2009, 6:29 AM

Hi Mike,

Sounds like the tech had no idea what was wrong. Maybe because he is not familiar with Kenwood hybrids.

Did you say the Marker/Calibrator signal was quite strong but you could not hear any incoming signals? If that's true, check the rear panel's REC ANT switch, it should be placed in the "NORMAL" position. The "REC ANT" position is for a separate receive antenna connected to the EXT REC ANT connection which is not the same as the antenna connected to the rear SO-239.

73
Mike
W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@...> wrote:
>
>
> Hi Mike,
>
> I've decided to take the radio back to the place where I purchased it. They have a tech. there that is available on Saturdays and I spoke with him this past saturday and he said it sound like something just quite working (I know that). I can't find the cause and I don't have the test equipment to trouble-shoot for the problem. I really appreciate all the help you give me along with all the other's in this group. I will get back with the group to let everyone know what the problem was.
>
>

> Thanks
> ki0gv
> Mike
>

[Non-text portions of this message have been removed]

20650. Re: [TS-520_820_530_830] To Soft Key or not??

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-23 20:55:09 UTC
From: g.skinner@mchsi.com
Topic: 20648 Message: 20650

Hello Gary;

I Asked Jeff , from Harbach Electronics if their soft key would be ok with a Kenwood 830, and he
said it would work just fine. The 520 and the 830 operate the same. Hope this helps. 73
gary, n0tqq.

---------- Original message from "Gary" <freeborn56@...>: ----------

Hi Everyone
I have a question that may be a little bizarre. I bought a SB-201 amp about a year ago and now am just getting around to setting it up to use. It had the Soft Key mod done and now I want to use it with a Kenwood TS-520. The question is, can I use the amp with the Soft Key mod or should I remove the mod and use it with the
original wireing? As I understand it the mod reduces the keying voltage to use with the modern sets. Will it still key the older sets??

Thanks
Gary KE7KPI

[Non-text portions of this message have been removed]

20651. Re: TS-520S Incoming signal flow and Q1 on the RF Unit board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-23 22:15:46 UTC
From: w5rkl
Topic: 20631 Message: 20651

Mike,

If the Marker/Calibrator signal produces a two thirds S meter reading then I do not believe you have a problem on the RF Unit board.

Have you checked the rear panel's X-Verter switch? It should be in the "OFF" position. A portion of the X-Verter switch is in the incoming signal path and if the X-Verter switch is in the "ON" position the receive signal path from the antenna to the input to the RF Unit is "open" and will not allow any incoming signals to flow to the RF Unit. The Marker/Calibrator signal does NOT flow through the X-Verter switch.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Michael <ki0gv@...> wrote:
>
> Mike,
>
> I just checked the antenna switch and it didn't seem to make any difference wheather the switch was normal or rec. ant. the receive stayed the same. As far as the marker goes when I tune it on the 80 meter band it goes about 2/3 of the way up the meter. I don't know if that is the normal position for it or not.
>
> Thanks
> ki0gv
> Mike
>
> --- On Mon, 3/23/09, w5rkl <w5rkl@...> wrote:
>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: TS-520S Incoming signal flow and Q1 on the RF Unit board
> To: TS-520_820_530_830@yahoogroups.com
> Date: Monday, March 23, 2009, 6:29 AM
>
>
>
>
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>
>
> Hi Mike,
>
> Sounds like the tech had no idea what was wrong. Maybe because he is not familiar with Kenwood hybrids.

>
> Did you say the Marker/Calibrator signal was quite strong but you could not hear any incoming signals? If that's true, check the rear panel's REC ANT switch, it should be placed in the "NORMAL" position. The "REC ANT" position is for a separate receive antenna connected to the EXT REC ANT connection which is not the same as the antenna connected to the rear SO-239.
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@> wrote:
> >
> >
> > Hi Mike,
> >
> > I've decided to take the radio back to the place where I purchased it. They have a tech. there that is available on Saturdays and I spoke with him this past saturday and he said it sound like something just quite working (I know that). I can't find the cause and I don't have the test equipment to trouble-shoot for the problem. I really appreciate all the help you give me along with all the other's in this group. I will get back with the group to let everyone know what the problem was.
> >
> >
> > Thanks
> > ki0gv
> > Mike
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> [Non-text portions of this message have been removed]
>

20652. Re: To Soft Key or not??

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-23 22:24:42 UTC
From: w5rkl
Topic: 20648 Message: 20652

Gary,

The 520 uses a set of relay contacts for amplifier T/R relay control. You do NOT have to remove the soft key mod, leave it alone.

The Soft Key mod for the SB-200 and SB-201 amplifiers is to allow transceiver's with low voltage open collector switching circuits that would otherwise be destroyed without the soft key mod or an external switching circuit between the amplifier and the transceiver.

Again, you should not have to remove the soft key mod when using the SB-201 with your 520.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Gary" <freeborn56@...> wrote:
>
> Hi Everyone
> I have a question that may be a little bizarre. I bought a SB-201 amp about a year ago and now am just getting around to setting it up to use. It had the Soft Key mod done and now I want to use it with a Kenwood TS-520. The question is, can I use the amp with the Soft Key mod or should I remove the mod and use it with the
> original wireing? As I understand it the mod reduces the keying voltage to use with the modern sets. Will it still key the older sets??
>
> Thanks
> Gary KE7KPI
>

20653. YG-3395C CW Filter For Sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-24 03:44:53 UTC
From: jsloss
Topic: 16608 Message: 20653

Like new. Fits TS-520, 520S, 520SE. $53 including USPS .

Joe k7mks

[Non-text portions of this message have been removed]

20654. Re: YG-3395C CW Filter For Sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-24 04:58:07 UTC
From: sv0xbq
Topic: 16608 Message: 20654

--- In TS-520_820_530_830@yahoogroups.com, "jsloss" <k7mks@...> wrote:
>
> Like new. Fits TS-520, 520S, 520SE. $53 including USPS .
>
> Joe k7mks
>
> [Non-text portions of this message have been removed]
>

Hi Joe,

I'll have it if you can you post to Greece for me please.

Chris SV0XBQ M0GHX

20655. Re: [TS-520_820_530_830] Re: YG-3395C CW Filter For Sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-24 05:12:52 UTC
From: jsloss
Topic: 16608 Message: 20655

Chris: Please reply direct to me at k7mks@... for info on the filter.

Thank you.

Joe k7mks

[Non-text portions of this message have been removed]

20656. TS-520S Incoming signal path simple tests

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-24 13:31:43 UTC
From: w5rkl
Topic: 20656 Message: 20656

Mike,

If you have an ohm meter then you can use it to determine if a break in the signal path from the rear panel SO-239 and the input to the RF Unit exists. To perform this ohm meter/continuity test, disconnect ALL power to the 520S and allow the power supplies sufficient time to bleed down to zero volts.

Remove the top cover of the 520S. The RF Unit board is on the right between the final amplifier and the front panel.

Looking down on the RF Unit board, between transformers T6 and T7 and the driver tube (12BY7) locate the "ANT" connection. The "ANT" connection is between transformers T6 and T7.

Connect one lead of the ohm meter to the RF Unit's "ANT" connection and the other ohm meter lead to the rear panel's SO-239 center connector. You should see continuity, a low resistance reading.

If the ohm meter does not indicate continuity then there is a break in the signal path some where along the path from the RF Unit's "ANT" connection and the rear panel's SO-239 center connector. This could be caused by a switch on the rear panel in the wrong position such as the "X-Verter" switch (should be in the "OFF" position), a broken wire, bad relay contact (RL-2) or a bad switch.

If, however, the ohm meter shows continuity but the resistance is 470 ohms or slightly higher and ALL switches are in their normal positions then the RF ATT push button switch is stuck in the pressed position. The RF ATT switch, when pressed, inserted a 470 ohm resistor in the signal path from the SO-239 and the "ANT" connection on the RF Unit.

The next test requires power to be applied to the 520S in receive mode ONLY!! Use caution when making connection to the RF Unit's "ANT" connection. DO NOT at any time key the 520S with the PTT microphone button, CW key, or the front panel SEND switch!!

Another simple test will attach a jumper wire from the RF Unit's "ANT" connection and the center conductor of your antenna's coax cable. If after installing this jumper the receiver comes to life, you can be sure there is a break or bad connection between the RF Unit and the rear panel's SO-239. The bad connection can be a bad switch (REC ANT, X-Verter, or RF ATT), broken wire, or bad relay (RL-2) connections. Trace the wiring until you find the broken or bad connection.

73
Mike
W5RKL

20657. VFO-520 shell...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-24 13:50:52 UTC
From: Jason A. Beens
Topic: 20657 Message: 20657

Hello,

Does anyone have an old VFO-520 that does not work lying in a junk pile? I would like to get hold of the enclosure and knobs, and replace the innards with a digital synthesizer. I don't want to destroy a working VFO. Please let me know what you need to take it off your hands,

Thanks,

AE5KR

Jason Beens

Sense Technologies, L.L.C.

Phone: (210) 690 - 3500 Ext. 304

[Non-text portions of this message have been removed]

20658. Wanted - VFO-520 does not need to operate...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-24 04:22:21 UTC
From: Jason
Topic: 20658 Message: 20658

I am looking for a VFO-520 enclosure with knobs to house a project in support of my 520. I am not interested in the VFO functioning, and I don't want to cannibalize a good VFO. Anyone have one of these on a junk pile?

Please reply to jbeens@....

thanks,
AE5KR
Jason

20659. Re: [TS-520_820_530_830] TS-520S Incoming signal path simple tests

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-25 00:02:07 UTC
From: Michael
Topic: 20656 Message: 20659

Mike,

I just performed the continuity test between the "Ant" post and the center of the pl-239 and there is no continuity (open). So now I have a Place to start looking. The other test you were talking about, I take it, With the radio on, put a jumper between the "Ant" post and the Pl-239 connection and the receive should come back.
Also when I was checking the continuity, The "Ant" post has full continuity to the frame of the radio. Wired grounded some place?

Thanks
ki0gv
Mike

--- On Tue, 3/24/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] TS-520S Incoming signal path simple tests
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, March 24, 2009, 8:31 AM

Mike,

If you have an ohm meter then you can use it to determine if a break in the signal path from the rear panel SO-239 and the input to the RF Unit exists. To perform this ohm meter/continuity test, disconnect ALL power to the 520S and allow the power supplies sufficient time to bleed down to zero volts.

Remove the top cover of the 520S. The RF Unit board is on the right between the final amplifier and the front panel.

Looking down on the RF Unit board, between transformers T6 and T7 and the driver tube (12BY7) locate the "ANT" connection. The "ANT" connection is between transformers T6 and T7.

Connect one lead of the ohm meter to the RF Unit's "ANT" connection and the other ohm meter lead to the rear panel's SO-239 center connector. You should see continuity, a low resistance reading.

If the ohm meter does not indicate continuity then there is a break in the signal path some where along the path from the RF Unit's "ANT" connection and the rear panel's SO-239 center connector. This could be caused by a switch on the rear panel in the wrong position such as the "X-Verter" switch (should be in the "OFF" position), a broken wire, bad relay contact (RL-2) or a bad switch.

If, however, the ohm meter shows continuity but the resistance is 470 ohms or slightly higher and ALL switches are in their normal positions then the RF ATT push button switch is stuck in the pressed position. The RF ATT switch, when pressed, inserted a 470 ohm resistor in the signal path from the SO-239 and the "ANT" connection on the RF Unit.

The next test requires power to be applied to the 520S in receive mode ONLY!! Use caution when making connection to the RF Unit's "ANT" connection. DO NOT at any time key the 520S with the PTT microphone button, CW key, or the front panel SEND switch!!

Another simple test will attach a jumper wire from the RF Unit's "ANT" connection and the center conductor of your antenna's coax cable. If after installing this jumper the receiver comes to life, you can be sure there is a break or bad connection between the RF Unit and the rear panel's SO-239. The bad connection can be a bad switch (REC ANT, X-Verter, or RF ATT), broken wire, or bad relay (RL-2) connections. Trace the wiring until you find the broken or bad connection.

73
Mike
W5RKL

[Non-text portions of this message have been removed]

20660. Re: TS-520S Incoming signal path simple tests

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-25 03:15:59 UTC
From: w5rkl
Topic: 20656 Message: 20660

Mike,

Since there is no continuity between the RF Unit's "ANT" connection and the rear panel's SO-239 center connection then check the X-Verter switch, it may be in the wrong position.

Yes, connecting a jumper wire from the RF Unit's "ANT" connection and the center conductor on your antenna's coax should make the receiver come to life and you should hear signals. You will have to adjust the DRIVE control to peak the receive signal. DO NOT key the 520 when adjusting the DRIVE control! Try the jumper and see what happens with the receiver.

You said you have a short between the rear panel's SO-239 center pin and the chassis. What happens to the short when relay RL-2, the relay under the final amplifier inside the metal box, is removed?

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Michael <ki0gv@...> wrote:
>
> Mike,
>
> I just performed the continuity test between the "Ant" post and the center of the pl-239 and there is no continuity (open). So now I have a Place to start looking. The other test you were talking about, I take it, With the radio on, put a jumper between the "Ant" post and the Pl-239 connection and the receive should come back.
> Also when I was checking the continuity, The "Ant" post has full continuity to the frame of the radio. Wired grounded some place?
>
> Thanks
> ki0gv
> Mike
>
> --- On Tue, 3/24/09, w5rkl <w5rkl@...> wrote:
>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] TS-520S Incoming signal path simple tests
> To: TS-520_820_530_830@yahoogroups.com
> Date: Tuesday, March 24, 2009, 8:31 AM
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> Mike,
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> If you have an ohm meter then you can use it to determine if a break in the signal path from the rear panel SO-239 and the input to the RF Unit exists. To perform this ohm meter/continuity test, disconnect ALL power to the 520S and allow the power supplies sufficient time to bleed down to zero volts.
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> Remove the top cover of the 520S. The RF Unit board is on the right between the final amplifier and the front panel.
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> Looking down on the RF Unit board, between transformers T6 and T7 and the driver tube (12BY7) locate the "ANT" connection. The "ANT" connection is between transformers T6 and T7.
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> Connect one lead of the ohm meter to the RF Unit's "ANT" connection and the other ohm meter lead to the rear panel's SO-239 center connector. You should see continuity, a low resistance reading.
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> If the ohm meter does not indicate continuity then there is a break in the signal path some where along the path from the RF Unit's "ANT" connection and the rear panel's SO-239 center connector. This could be caused by a switch on the rear panel in the wrong position such as the "X-Verter" switch (should be in the "OFF" position), a broken wire, bad relay contact (RL-2) or a bad switch.
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> If, however, the ohm meter shows continuity but the resistance is 470 ohms or slightly higher and ALL switches are in their normal positions then the RF ATT push button switch is stuck in the pressed position. The RF ATT switch, when pressed, inserted a 470 ohm resistor in the signal path from the SO-239 and the "ANT" connection on the RF Unit.
>
> The next test requires power to be applied to the 520S in receive mode ONLY!! Use caution when making connection to the RF Unit's "ANT" connection. DO NOT at any time key the 520S with the PTT microphone button, CW key, or the front panel SEND switch!!
>
> Another simple test will attach a jumper wire from the RF Unit's "ANT" connection and the center conductor of your antenna's coax cable. If after installing this jumper the receiver comes to life, you can be sure there is a break or bad connection between the RF Unit and the rear panel's SO-239. The bad connection can be a bad switch (REC ANT, X-Verter, or RF ATT), broken wire, or bad relay (RL-2) connections. Trace the wiring until you find the broken or bad connection.
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> 73
> Mike
> W5RKL
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20661. Re: TS-520S Incoming signal path simple tests

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-25 03:26:03 UTC
From: w5rkl
Topic: 20656 Message: 20661

Mike,

You're use of the term "PL-259" is incorrect when referring to the antenna connector on the rear of the 520.

The antenna connector on the rear panel of the 520 is called an "SO-239" and it is a "female" connector.

The antenna or tuner coax cable connector that plugs into the 520's rear "SO-239" is called a "PL-259" and it is a "male" connector.

It's important to know the difference when referring to these connectors.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Michael <ki0gv@...> wrote:
>
> Mike,
>
> I just performed the continuity test between the "Ant" post and the center of the pl-239 and there is no continuity (open). So now I have a Place to start looking. The other test you were talking about, I take it, With the radio on, put a jumper between the "Ant" post and the Pl-239 connection and the receive should come back.
> Also when I was checking the continuity, The "Ant" post has full continuity to the frame of the radio. Wired grounded some place?
>
> Thanks
> ki0gv
> Mike
>
> --- On Tue, 3/24/09, w5rkl <w5rkl@...> wrote:
>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] TS-520S Incoming signal path simple tests
> To: TS-520_820_530_830@yahoogroups.com
> Date: Tuesday, March 24, 2009, 8:31 AM
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> Mike,

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> If you have an ohm meter then you can use it to determine if a break in the signal path from the rear panel SO-239 and the input to the RF Unit exists. To perform this ohm meter/continuity test, disconnect ALL power to the 520S and allow the power supplies sufficient time to bleed down to zero volts.
>
> Remove the top cover of the 520S. The RF Unit board is on the right between the final amplifier and the front panel.
>
> Looking down on the RF Unit board, between transformers T6 and T7 and the driver tube (12BY7) locate the "ANT" connection. The "ANT" connection is between transformers T6 and T7.
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> Connect one lead of the ohm meter to the RF Unit's "ANT" connection and the other ohm meter lead to the rear panel's SO-239 center connector. You should see continuity, a low resistance reading.
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> If the ohm meter does not indicate continuity then there is a break in the signal path some where along the path from the RF Unit's "ANT" connection and the rear panel's SO-239 center connector. This could be caused by a switch on the rear panel in the wrong position such as the "X-Verter" switch (should be in the "OFF" position), a broken wire, bad relay contact (RL-2) or a bad switch.
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> If, however, the ohm meter shows continuity but the resistance is 470 ohms or slightly higher and ALL switches are in their normal positions then the RF ATT push button switch is stuck in the pressed position. The RF ATT switch, when pressed, inserted a 470 ohm resistor in the signal path from the SO-239 and the "ANT" connection on the RF Unit.
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> The next test requires power to be applied to the 520S in receive mode ONLY!! Use caution when making connection to the RF Unit's "ANT" connection. DO NOT at any time key the 520S with the PTT microphone button, CW key, or the front panel SEND switch!!
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> Another simple test will attach a jumper wire from the RF Unit's "ANT" connection and the center conductor of your antenna's coax cable. If after installing this jumper the receiver comes to life, you can be sure there is a break or bad connection between the RF Unit and the rear panel's SO-239. The bad connection can be a bad switch (REC ANT, X-Verter, or RF ATT), broken wire, or bad relay (RL-2) connections. Trace the wiring until you find the broken or bad connection.
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> 73
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20662. Re: [TS-520_820_530_830] Re: TS-520S Incoming signal path simple tests

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-25 04:04:15 UTC
From: Michael
Topic: 20656 Message: 20662

Mike,

I took the wire off the "Ant" post on the RF board and the short appears to be in the board itself showing full continuity from the "Ant" post and chasis ground. And after removing the wire and checking the wire itself to the pl-239 showed "Open" no continuity.

Now I'm really wonder what has happened, maybe a shorted capacitor C55 or C56.

Thanks
ki0gv
Mike

--- On Tue, 3/24/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: TS-520S Incoming signal path simple tests
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, March 24, 2009, 10:15 PM

Mike,

Since there is no continuity between the RF Unit's "ANT" connection and the rear panel's SO-239 center connection then check the X-Verter switch, it may be in the wrong position.

Yes, connecting a jumper wire from the RF Unit's "ANT" connection and the center conductor on your antenna's coax should make the receiver come to life and you should hear signals. You will have to adjust the DRIVE control to peak the receive signal. DO NOT key the 520 when adjusting the DRIVE control! Try the jumper and see what happens with the receiver.

You said you have a short between the rear panel's SO-239 center pin and the chassis. What happens to the short when relay RL-2, the relay under the final amplifier inside the metal box, is removed?

73
Mike
W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@...> wrote:
>
> Mike,
>
> I just performed the continuity test between the "Ant" post and the center of the pl-239 and there is no continuity (open). So now I have a Place to start looking. The other test you were talking about, I take it, With the radio on, put a jumper between the "Ant" post and the Pl-239 connection and the receive should come back.
> Also when I was checking the continuity, The "Ant" post has full continuity to the

frame of the radio. Wired grounded some place?
>
> Thanks
> ki0gv
> Mike
>
> --- On Tue, 3/24/09, w5rkl <w5rkl@...> wrote:
>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_ 530_830] TS-520S Incoming signal path simple tests
> To: TS-520_820_530_ 830@yahoogroups. com
> Date: Tuesday, March 24, 2009, 8:31 AM
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>
> Mike,
>
> If you have an ohm meter then you can use it to determine if a break in the signal path from the rear panel SO-239 and the input to the RF Unit exists. To perform this ohm meter/continuity test, disconnect ALL power to the 520S and allow the power supplies sufficient time to bleed down to zero volts.
>
> Remove the top cover of the 520S. The RF Unit board is on the right between the final amplifier and the front panel.
>
> Looking down on the RF Unit board, between transformers T6 and T7 and the driver tube (12BY7) locate the "ANT" connection. The "ANT" connection is between transformers T6 and T7.
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> Connect one lead of the ohm meter to the RF Unit's "ANT" connection and the other ohm meter lead to the rear panel's SO-239 center connector. You should see continuity, a low resistance reading.
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> If the ohm meter does not indicate continuity then there is a break in the signal path some where along the path from the RF Unit's "ANT" connection and the rear panel's SO-239 center connector. This could be caused by a switch on the rear panel in the wrong position such as the "X-Verter" switch (should be in the "OFF" position), a broken wire, bad relay contact (RL-2) or a bad switch.
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> If, however, the ohm meter shows continuity but the resistance is 470 ohms or slightly higher and ALL switches are in their normal positions then the RF ATT push button switch is stuck in the pressed position. The RF ATT switch, when pressed, inserted a 470 ohm resistor in the signal path from the SO-239 and the "ANT" connection on the RF Unit.
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> The next test requires power to be applied to the 520S in receive mode ONLY!! Use caution when making connection to the RF Unit's "ANT" connection. DO NOT at any time key the 520S with the PTT microphone button, CW key, or the front panel SEND switch!!

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> Another simple test will attach a jumper wire from the RF Unit's "ANT" connection and the center conductor of your antenna's coax cable. If after installing this jumper the receiver comes to life, you can be sure there is a break or bad connection between the RF Unit and the rear panel's SO-239. The bad connection can be a bad switch (REC ANT, X-Verter, or RF ATT), broken wire, or bad relay (RL-2) connections. Trace the wiring until you find the broken or bad connection.
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> 73
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20663. Re: [TS-520_820_530_830] Re: TS-520S Incoming signal path simple tests

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-25 04:07:04 UTC
From: Michael
Topic: 20656 Message: 20663

Mike,

I keep wording them wrong sorry, I do know the difference.

Thanks
ki0gv
Mike

--- On Tue, 3/24/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: TS-520S Incoming signal path simple tests
To: TS-520_820_530_830@...m
Date: Tuesday, March 24, 2009, 10:26 PM

Mike,

You're use of the term "PL-259" is incorrect when referring to the antenna connector on the rear of the 520.

The antenna connector on the rear panel of the 520 is called an "SO-239" and it is a "female" connector.

The antenna or tuner coax cable connector that plugs into the 520's rear "SO-239" is called a "PL-259" and it is a "male" connector.

It's important to know the difference when referring to these connectors.

73
Mike
W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@...> wrote:
>
> Mike,
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> I just performed the continuity test between the "Ant" post and the center of the pl-239 and there is no continuity (open). So now I have a Place to start looking. The other test you were talking about, I take it, With the radio on, put a jumper between the "Ant" post and the Pl-239 connection and the receive should come back.
> Also when I was checking the continuity, The "Ant" post has full continuity to the frame of the radio. Wired grounded some place?
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> Mike

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> --- On Tue, 3/24/09, w5rkl <w5rkl@...> wrote:
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> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_ 530_830] TS-520S Incoming signal path simple tests
> To: TS-520_820_530_ 830@yahoogroups. com
> Date: Tuesday, March 24, 2009, 8:31 AM
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> Mike,
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20664. Re: TS-520S Incoming signal path simple tests

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-25 04:41:25 UTC
From: w5rkl
Topic: 20656 Message: 20664

Mike,

Ok, that's good.

The "short" you see is not an RF short. It's simply the primary winding of L1 on the RF unit. It will show up as a "DC" short when measuring with an ohm meter. Don't worry about it.

The problem is finding where the "open" is between the RF Unit's "ANT" connection and the 520's rear SO-239 center connector.

Did you check the rear panel's X-Verter switch like I said before? The X-Verter switch MUST be in the "OFF" position.

If the X-Verter switch is in the "ON" position this could easily be why you do not see continuity between the RF Unit's "ANT" connection and the rear SO-239 center connector! Check the X-Verter switch before you do anything else.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Michael <ki0gv@...> wrote:
>
> Mike,
>
> I keep wording them wrong sorry, I do know the difference.
>
> Thanks
> ki0gv
> Mike
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> --- On Tue, 3/24/09, w5rkl <w5rkl@...> wrote:
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>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: TS-520S Incoming signal path simple tests
> To: TS-520_820_530_830@yahoogroups.com
> Date: Tuesday, March 24, 2009, 10:26 PM
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> Mike,
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> You're use of the term "PL-259" is incorrect when referring to the antenna connector on the rear of the 520.
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> The antenna or tuner coax cable connector that plugs into the 520's rear "SO-239" is called a "PL-259" and it is a "male" connector.
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> It's important to know the difference when referring to these connectors.
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> --- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@> wrote:
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> > Thanks
> > ki0gv
> > Mike
> >
> > --- On Tue, 3/24/09, w5rkl <w5rkl@> wrote:
> >
> >
> > From: w5rkl <w5rkl@>
> > Subject: [TS-520_820_ 530_830] TS-520S Incoming signal path simple tests
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Date: Tuesday, March 24, 2009, 8:31 AM
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> > Mike,
> >
> > If you have an ohm meter then you can use it to determine if a break in the signal path from the rear panel SO-239 and the input to the RF Unit exists. To perform this ohm meter/continuity test, disconnect ALL power to the 520S and allow the power supplies sufficient time to bleed down to zero volts.
> >

> > Remove the top cover of the 520S. The RF Unit board is on the right between the final amplifier and the front panel.
> >
> > Looking down on the RF Unit board, between transformers T6 and T7 and the driver tube (12BY7) locate the "ANT" connection. The "ANT" connection is between transformers T6 and T7.
> >
> > Connect one lead of the ohm meter to the RF Unit's "ANT" connection and the other ohm meter lead to the rear panel's SO-239 center connector. You should see continuity, a low resistance reading.
> >
> > If the ohm meter does not indicate continuity then there is a break in the signal path some where along the path from the RF Unit's "ANT" connection and the rear panel's SO-239 center connector. This could be caused by a switch on the rear panel in the wrong position such as the "X-Verter" switch (should be in the "OFF" position), a broken wire, bad relay contact (RL-2) or a bad switch.
> >
> > If, however, the ohm meter shows continuity but the resistance is 470 ohms or slightly higher and ALL switches are in their normal positions then the RF ATT push button switch is stuck in the pressed position. The RF ATT switch, when pressed, inserted a 470 ohm resistor in the signal path from the SO-239 and the "ANT" connection on the RF Unit.
> >
> > The next test requires power to be applied to the 520S in receive mode ONLY!! Use caution when making connection to the RF Unit's "ANT" connection. DO NOT at any time key the 520S with the PTT microphone button, CW key, or the front panel SEND switch!!
> >
> > Another simple test will attach a jumper wire from the RF Unit's "ANT" connection and the center conductor of your antenna's coax cable. If after installing this jumper the receiver comes to life, you can be sure there is a break or bad connection between the RF Unit and the rear panel's SO-239. The bad connection can be a bad switch (REC ANT, X-Verter, or RF ATT), broken wire, or bad relay (RL-2) connections. Trace the wiring until you find the broken or bad connection.
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> > 73
> > Mike
> > W5RKL
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20665. Re: [TS-520_820_530_830] Re: TS-520S Incoming signal path simple tests

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-25 05:01:09 UTC
From: Michael
Topic: 20656 Message: 20665

Mike,

Ok, I just hooked the "Ant" post up to the antenna and There Was My Receive. Thanks a Bunch for that little test, Now to trace down the problem and the X Verter switch is and was in the Off postion when I checked it. With your help I might be able to solve this puzzle!

ki0gv
Mike

--- On Tue, 3/24/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: TS-520S Incoming signal path simple tests
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, March 24, 2009, 11:41 PM

Mike,

Ok, that's good.

The "short" you see is not an RF short. It's simply the primary winding of L1 on the RF unit. It will show up as a "DC" short when measuring with an ohm meter. Don't worry about it.

The problem is finding where the "open" is between the RF Unit's "ANT" connection and the 520's rear SO-239 center connector.

Did you check the rear panel's X-Verter switch like I said before? The X-Verter switch MUST be in the "OFF" position.

If the X-Verter switch is in the "ON" position this could easily be why you do not see continuity between the RF Unit's "ANT" connection and the rear SO-239 center connector! Check the X-Verter switch before you do anything else.

73
Mike
W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@...> wrote:
>
> Mike,
>
> I keep wording them wrong sorry, I do know the difference.
>
> Thanks

> ki0gv
> Mike
>
> --- On Tue, 3/24/09, w5rkl <w5rkl@...> wrote:
>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_ 530_830] Re: TS-520S Incoming signal path simple tests
> To: TS-520_820_530_ 830@yahoogroups. com
> Date: Tuesday, March 24, 2009, 10:26 PM
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>
> Mike,
>
> You're use of the term "PL-259" is incorrect when referring to the antenna connector on the rear of the 520.
>
> The antenna connector on the rear panel of the 520 is called an "SO-239" and it is a "female" connector.
>
> The antenna or tuner coax cable connector that plugs into the 520's rear "SO-239" is called a "PL-259" and it is a "male" connector.
>
> It's important to know the difference when referring to these connectors.
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@> wrote:
> >
> > Mike,
> >
> > I just performed the continuity test between the "Ant" post and the center of the pl-239 and there is no continuity (open). So now I have a Place to start looking. The other test you were talking about, I take it, With the radio on, put a jumper between the "Ant" post and the Pl-239 connection and the receive should come back.
> > Also when I was checking the continuity, The "Ant" post has full continuity to the frame of the radio. Wired grounded some place?
> >
> > Thanks
> > ki0gv
> > Mike
> >
> > --- On Tue, 3/24/09, w5rkl <w5rkl@> wrote:
> >

> >
> > From: w5rkl <w5rkl@>
> > Subject: [TS-520_820_ 530_830] TS-520S Incoming signal path simple tests
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Date: Tuesday, March 24, 2009, 8:31 AM
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> >
> > Mike,
> >
> > If you have an ohm meter then you can use it to determine if a break in the signal path from the rear panel SO-239 and the input to the RF Unit exists. To perform this ohm meter/continuity test, disconnect ALL power to the 520S and allow the power supplies sufficient time to bleed down to zero volts.
> >
> > Remove the top cover of the 520S. The RF Unit board is on the right between the final amplifier and the front panel.
> >
> > Looking down on the RF Unit board, between transformers T6 and T7 and the driver tube (12BY7) locate the "ANT" connection. The "ANT" connection is between transformers T6 and T7.
> >
> > Connect one lead of the ohm meter to the RF Unit's "ANT" connection and the other ohm meter lead to the rear panel's SO-239 center connector. You should see continuity, a low resistance reading.
> >
> > If the ohm meter does not indicate continuity then there is a break in the signal path some where along the path from the RF Unit's "ANT" connection and the rear panel's SO-239 center connector. This could be caused by a switch on the rear panel in the wrong position such as the "X-Verter" switch (should be in the "OFF" position), a broken wire, bad relay contact (RL-2) or a bad switch.
> >
> > If, however, the ohm meter shows continuity but the resistance is 470 ohms or slightly higher and ALL switches are in their normal positions then the RF ATT push button switch is stuck in the pressed position. The RF ATT switch, when pressed, inserted a 470 ohm resistor in the signal path from the SO-239 and the "ANT" connection on the RF Unit.
> >
> > The next test requires power to be applied to the 520S in receive mode ONLY!! Use caution when making connection to the RF Unit's "ANT" connection. DO NOT at any time key the 520S with the PTT microphone button, CW key, or the front panel SEND switch!!
> >
> > Another simple test will attach a jumper wire from the RF Unit's "ANT" connection and the center conductor of your antenna's coax cable. If after installing this jumper the receiver comes to life, you can be sure there is a break or bad connection between the RF Unit and the rear panel's SO-239. The bad connection can be a bad switch (REC ANT, X-Verter, or RF ATT), broken wire, or bad relay (RL-2) connections. Trace the wiring until you find the broken or bad connection.

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> > 73
> > Mike
> > W5RKL
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20666. Re: TS-520S Incoming signal flow

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-25 12:55:57 UTC
From: kc2pcr
Topic: 20631 Message: 20666

Hi Guys I've been reading along & wondering if there may be a remote possibility the X-verter mod has been done to this radio, the X-verter mod allows antenna switching via the on/off switch of the tv502 or tv506 transverters.
As long as theres a transverter connected to the radio no problem, but after doing the mod you will need to run a shorting plug if no transverter is connected.
Take a look at the transverter plug from the inside of the rear panel & see if pins no.3 & no.10 are shorted and no.6 & no7 respectively should both have a shorting wire...If they are shorted than never mind, but if they are open then the mod has been done & you'll need to use a shorting plug or keep a transverter connected.

Excellent strategy thus far Mike w5rkl, I do appreciate the education!
73 Doug kc2pcr

heres a few links to images of the mod & plug pinout for reference.

http://www.cnyara.com/_files/images/Xverter_mod.jpg

http://www.cnyara.com/_files/images/6M_connector_terminal_rating.jpg

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hi Mike,
>
> Sounds like the tech had no idea what was wrong. Maybe because he is not familiar with Kenwood hybrids.
>

20667. Re: TS-520S Incoming signal path simple tests

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-25 13:29:53 UTC
From: w5rkl
Topic: 20656 Message: 20667

Mike,

That's good, that proved the RF Unit was not nor ever was the problem.

I don't remember whether you said you have the 520S operating and service manuals plus the high resolution schematic or not. You will need these, especially the service manual and the high resolution schematic to service the 520S. Without them you are just stabbing in the dark! Therefore, if you do not have these items go to the following website and download each of them.

http://www.n6wk.com/kenwood/

Scroll down and click on each link, downloading each item to your computer's hard drive.

I recommend you review the high resolution schematic before taking on the task of tracing the signal path. The area of the schematic you need to look at is on the middle and upper right. You will notice the SO-239 with the letters "ANT" directly above it. The heavy dark black line from the SO-239 goes to relay RL-2 then on to the X-Verter switch etc. That heavy dark black line ultimately terminates at the RF Unit board's ANT connection even though the schematic does NOT show "ANT" on the RF Unit board. Believe me, that IS the RF Unit's ANT connection! Pay attention to wire colors as they can lead you to the next "correct" connection. Some wires may have "2" colors, a solid back ground color with another color "strip". Some may have "3" colors, a solid back ground color with "2" different or "2" same color strips. Just pay attention to the wire colors.

If you get stumped and have questions etc, then ask.

One last thing. Pull the power cable from the wall outlet BEFORE attempting any of these steps!!

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Michael <ki0gv@...> wrote:
>
> Mike,
>
> Ok, I just hooked the "Ant" post up to the antenna and There Was My Receive. Thanks a Bunch for that little test, Now to trace down the problem and the X Verter switch is and was in the Off postion when I checked it. With your help I might be able to solve this puzzle!
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> ki0gv
> Mike
>
> --- On Tue, 3/24/09, w5rkl <w5rkl@...> wrote:

>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: TS-520S Incoming signal path simple tests
> To: TS-520_820_530_830@yahoogroups.com
> Date: Tuesday, March 24, 2009, 11:41 PM
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> Mike,
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> Ok, that's good.
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> The "short" you see is not an RF short. It's simply the primary winding of L1 on the RF unit. It will show up as a "DC" short when measuring with an ohm meter. Don't worry about it.
>
> The problem is finding where the "open" is between the RF Unit's "ANT" connection and the 520's rear SO-239 center connector.
>
> Did you check the rear panel's X-Verter switch like I said before? The X-Verter switch MUST be in the "OFF" position.
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> If the X-Verter switch is in the "ON" position this could easily be why you do not see continuity between the RF Unit's "ANT" connection and the rear SO-239 center connector! Check the X-Verter switch before you do anything else.
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> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@> wrote:
> >
> > Mike,
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> > I keep wording them wrong sorry, I do know the difference.
> >
> > Thanks
> > ki0gv
> > Mike
> >
> > --- On Tue, 3/24/09, w5rkl <w5rkl@> wrote:
> >
> >
> > From: w5rkl <w5rkl@>
> > Subject: [TS-520_820_ 530_830] Re: TS-520S Incoming signal path simple tests
> > To: TS-520_820_530_ 830@yahoogroups. com

> > Date: Tuesday, March 24, 2009, 10:26 PM
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> >
> > Mike,
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> > You're use of the term "PL-259" is incorrect when referring to the antenna connector on the rear of the 520.
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> > The antenna connector on the rear panel of the 520 is called an "SO-239" and it is a "female" connector.
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> > It's important to know the difference when referring to these connectors.
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> > 73
> > Mike
> > W5RKL
> >
> > --- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@> wrote:
> > >
> > > Mike,
> > >
> > > I just performed the continuity test between the "Ant" post and the center of the pl-239 and there is no continuity (open). So now I have a Place to start looking. The other test you were talking about, I take it, With the radio on, put a jumper between the "Ant" post and the Pl-239 connection and the receive should come back.
> > > Also when I was checking the continuity, The "Ant" post has full continuity to the frame of the radio. Wired grounded some place?
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> > > ki0gv
> > > Mike
> > >
> > > --- On Tue, 3/24/09, w5rkl <w5rkl@> wrote:
> > >
> > >
> > > From: w5rkl <w5rkl@>
> > > Subject: [TS-520_820_ 530_830] TS-520S Incoming signal path simple tests
> > > To: TS-520_820_530_ 830@yahoogroups. com
> > > Date: Tuesday, March 24, 2009, 8:31 AM
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> > > Mike,
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> > > If you have an ohm meter then you can use it to determine if a break in the signal path from the rear panel SO-239 and the input to the RF Unit exists. To perform this ohm meter/continuity test, disconnect ALL power to the 520S and allow the power supplies sufficient time to bleed down to zero volts.
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> > > Remove the top cover of the 520S. The RF Unit board is on the right between the final amplifier and the front panel.
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> > > Looking down on the RF Unit board, between transformers T6 and T7 and the driver tube (12BY7) locate the "ANT" connection. The "ANT" connection is between transformers T6 and T7.
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> > > Connect one lead of the ohm meter to the RF Unit's "ANT" connection and the other ohm meter lead to the rear panel's SO-239 center connector. You should see continuity, a low resistance reading.
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> > > If the ohm meter does not indicate continuity then there is a break in the signal path some where along the path from the RF Unit's "ANT" connection and the rear panel's SO-239 center connector. This could be caused by a switch on the rear panel in the wrong position such as the "X-Verter" switch (should be in the "OFF" position), a broken wire, bad relay contact (RL-2) or a bad switch.
> > >
> > > If, however, the ohm meter shows continuity but the resistance is 470 ohms or slightly higher and ALL switches are in their normal positions then the RF ATT push button switch is stuck in the pressed position. The RF ATT switch, when pressed, inserted a 470 ohm resistor in the signal path from the SO-239 and the "ANT" connection on the RF Unit.
> > >
> > > The next test requires power to be applied to the 520S in receive mode ONLY!! Use caution when making connection to the RF Unit's "ANT" connection. DO NOT at any time key the 520S with the PTT microphone button, CW key, or the front panel SEND switch!!
> > >
> > > Another simple test will attach a jumper wire from the RF Unit's "ANT" connection and the center conductor of your antenna's coax cable. If after installing this jumper the receiver comes to life, you can be sure there is a break or bad connection between the RF Unit and the rear panel's SO-239. The bad connection can be a bad switch (REC ANT, X-Verter, or RF ATT), broken wire, or bad relay (RL-2) connections. Trace the wiring until you find the broken or bad connection.
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20668. Re: TS-520S Incoming signal flow

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-25 13:36:53 UTC
From: w5rkl
Topic: 20631 Message: 20668

Hi Doug,

No, there is no need to short any of the X-Verter pins if there isn't a transverter plugged into the rear X-Verter socket. If there is no a transverter plugged into the X-Verter socket then the X-Verter switch MUST be in the "OFF" position. That's what the X-Verter switch is for. Don't be confused by "thinking" something is need when it's not. There is absolutely no need for a shorting plug or shorting of any of the X-Verter pins when nothing is plugged into the X-Verter socket!

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "kc2pcr" <KC2PCR@...> wrote:
>
> Hi Guys I've been reading along & wondering if there may be a remote possibility the X-verter mod has been done to this radio, the X-verter mod allows antenna switching via the on/off switch of the tv502 or tv506 transverters.
> As long as theres a transverter connected to the radio no problem, but after doing the mod you will need to run a shorting plug if no transverter is connected.
> Take a look at the transverter plug from the inside of the rear panel & see if pins no.3 & no.10 are shorted and no.6 & no7 respectively should both have a shorting wire...If they are shorted than never mind, but if they are open then the mod has been done & you'll need to use a shorting plug or keep a transverter connected.
>
> Excellent strategy thus far Mike w5rkl, I do appreciate the education!
> 73 Doug kc2pcr
>
> heres a few links to images of the mod & plug pinout for reference.
>
> http://www.cnyara.com/_files/images/Xverter_mod.jpg
>
> http://www.cnyara.com/_files/images/6M_connector_terminal_rating.jpg
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Hi Mike,
> >
> > Sounds like the tech had no idea what was wrong. Maybe because he is not familiar with Kenwood hybrids.
> >
>

20669. Re: TS-520S Incoming signal flow

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-25 13:42:16 UTC
From: w5rkl
Topic: 20631 Message: 20669

Let me rephrase my last response. Normally, if no mod has been done, there is no need for a shorting of any X-Verter socket pins. The X-Verter switch would be in the "OFF" position when nothing is plugged into the X-Verter socket.

If, however, some X-Verter mod which I am not aware of, has been done, Mike will find it when tracing the signal path. That would be the portion where I said if he gets "stumped" then ask.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "kc2pcr" <KC2PCR@...> wrote:
>
> Hi Guys I've been reading along & wondering if there may be a remote possibility the X-verter mod has been done to this radio, the X-verter mod allows antenna switching via the on/off switch of the tv502 or tv506 transverters.
> As long as theres a transverter connected to the radio no problem, but after doing the mod you will need to run a shorting plug if no transverter is connected.
> Take a look at the transverter plug from the inside of the rear panel & see if pins no.3 & no.10 are shorted and no.6 & no7 respectively should both have a shorting wire...If they are shorted than never mind, but if they are open then the mod has been done & you'll need to use a shorting plug or keep a transverter connected.
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> Excellent strategy thus far Mike w5rkl, I do appreciate the education!
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> heres a few links to images of the mod & plug pinout for reference.
>
> http://www.cnyara.com/_files/images/Xverter_mod.jpg
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> http://www.cnyara.com/_files/images/6M_connector_terminal_rating.jpg
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>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Hi Mike,
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> > Sounds like the tech had no idea what was wrong. Maybe because he is not familiar with Kenwood hybrids.
> >
>

20670. Re: TS-520S Incoming signal flow

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-25 15:17:56 UTC
From: kc2pcr
Topic: 20631 Message: 20670

Hi mike,
My mistake, as you said thats not needed for the 520S...only the 520 when that mod has been done.
I didnt notice the 520 "S" in the topic.
enjoy the day- doug

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hi Doug,
>
> No, there is no need to short any of the X-Verter pins if there isn't a transverter plugged into the rear X-Verter socket. If there is no a transverter plugged into the X-Verter socket then the X-Verter switch MUST be in the "OFF" position. That's what the X-Verter switch is for. Don't be confused by "thinking" something is need when it's not. There is absolutely no need for a shorting plug or shorting of any of the X-Verter pins when nothing is plugged into the X-Verter socket!
>
> 73
> Mike
> W5RKL

20671. TS-830S drifting

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-25 23:08:55 UTC
From: Gordon
Topic: 20671 Message: 20671

Thought I would share this with the group.
I am aligning a TS-830S here on the bench. I adjusted the 9 volt and 3.6 volt supplies. However, on cold start up, the Frequency would drift about 200hz.
So, I decided to monitor the 9 volt line when turning the Radio on. I found that it varied considerably. So, I loosened and re-tightened all the screws on the AF/AVR board and as soon as I did, The 9 volt line became ROCK solid and now there is No more drift and no more Voltage fluctuation.
I just wanted to share this with all your guys. Simple Fix.
I knew about loosening and re-tightening all the board mounting screws, I just want to remind everyone how important and simple it is!

73,
Gordon
N6WK

20672. Re: [TS-520_820_530_830] Re: TS-520S Incoming signal path simple tests

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-26 01:02:27 UTC
From: Michael
Topic: 20656 Message: 20672

Mike,

I think I have found the problem right off the start. As usual when I start traceing a problem, I check the obvious first, all switches and there wiring etc. Well on the Ant rec. switch for normal or external, I found a loose wire that was hide under the other wires and it was suppose to connect to the Normal side. Now to get to it and solder it back in place. Could I be so lucky. I'm still traceing just in case that doesn't do it.

I will keep you informed.

Thanks
ki0gv
Mike

--- On Wed, 3/25/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: TS-520S Incoming signal path simple tests
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, March 25, 2009, 8:29 AM

Mike,

That's good, that proved the RF Unit was not nor ever was the problem.

I don't remember whether you said you have the 520S operating and service manuals plus the high resolution schematic or not. You will need these, especially the service manual and the high resolution schematic to service the 520S. Without them you are just stabbing in the dark! Therefore, if you do not have these items go to the following website and download each of them.

http://www.n6wk. com/kenwood/

Scroll down and click on each link, downloading each item to your computer's hard drive.

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If you get stumped and have questions etc, then ask.

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20673. Re: [TS-520_820_530_830] Re: TS-520S Incoming signal path simple tests

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-26 05:57:41 UTC
From: Michael
Topic: 20656 Message: 20673

Mike,

Here's an update on my radio on the receive. The wire that I had found late last night (2:00 this morning) that was loose from the Ant Rec switch. I soldered it back to the center post of the switch (The wire was coming from the RF Att) any way when I turned the radio on at roughly 10:00 P.M. The Receive came back Loud, Like good old summer time condition's on 80 meter's and it has been on steady since and it's 12:45 A.M. now and still perculating. I think with all the help you gave me, I got the puzzle solved. I don't think by any means without your help that I could have got it done. You have taught me a great deal of training and experience.

Thank You
ki0gv
Mike

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Subject: [TS-520_820_530_830] Re: TS-520S Incoming signal path simple tests
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, March 25, 2009, 8:29 AM

Mike,

That's good, that proved the RF Unit was not nor ever was the problem.

I don't remember whether you said you have the 520S operating and service manuals plus the high resolution schematic or not. You will need these, especially the service manual and the high resolution schematic to service the 520S. Without them you are just stabbing in the dark! Therefore, if you do not have these items go to the following website and download each of them.

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20674. Poor receive on TS-520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-26 06:00:53 UTC
From: sv0xbq
Topic: 20674 Message: 20674

Thought I'd share this. I've got a TS-520SE that's been a bit deaf on all the bands since I got it a few weeks ago. I put it down to poor conditions until I compared it with my Icom which was a lot better on RX.
I finally chased it down to a dry joint on the RF ATT switch. You could hear the signal being attenuated when you used the switch so it wasn't immediately obvious that this was where the problem was. Re-soldered it and the sets really come alive.

Chris

20675. Re: TS-520S Incoming signal path simple tests

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-26 14:29:45 UTC
From: w5rkl
Topic: 20656 Message: 20675

Mike,

Congratulations!! That's terrific!! I'm glad you found the broken/loose wire.

I assumed you downloaded the operator and service manuals along with the high resolution 520S schematic. If you haven't, may I, again, recommend you download all 3 of them and take the time to read the circuit description section and review the block diagrams. By doing this you will become much more familiar with the way the radio works. You don't have to be an electronics expert. However, by reading these sections in the manuals, when problems do arise, now or in the future, you will have a much better idea where to look.

Again, congratulations on fixing your 520.

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> > > > Remove the top cover of the 520S. The RF Unit board is on the right between the final amplifier and the front panel.
> > > >
> > > > Looking down on the RF Unit board, between transformers T6 and T7 and the driver tube (12BY7) locate the "ANT" connection. The "ANT" connection is between transformers T6 and T7.
> > > >
> > > > Connect one lead of the ohm meter to the RF Unit's "ANT" connection and the other ohm meter lead to the rear panel's SO-239 center connector. You should see continuity, a low resistance reading.
> > > >
> > > > If the ohm meter does not indicate continuity then there is a break in the signal path some where along the path from the RF Unit's "ANT" connection and the rear panel's SO-239 center connector. This could be caused by a switch on the rear panel in the wrong position such as the "X-Verter" switch (should be in the "OFF" position), a broken wire, bad relay contact (RL-2) or a bad switch.
> > > >
> > > > If, however, the ohm meter shows continuity but the resistance is 470 ohms or slightly higher and ALL switches are in their normal positions then the RF ATT push button switch is stuck in the pressed position. The RF ATT switch, when pressed, inserted a 470 ohm resistor in the signal path from the SO-239 and the "ANT" connection on the RF Unit.
> > > >
> > > > The next test requires power to be applied to the 520S in receive mode ONLY!! Use caution when making connection to the RF Unit's "ANT" connection. DO NOT at any time key the 520S with the PTT microphone button, CW key, or the front panel SEND switch!!
> > > >
> > > > Another simple test will attach a jumper wire from the RF Unit's "ANT" connection and the center conductor of your antenna's coax cable. If after installing this jumper the receiver comes to life, you can be sure there is a break or bad connection between the RF Unit and the rear panel's SO-239. The bad connection can be a bad switch (REC ANT, X-Verter, or RF ATT), broken wire, or bad relay (RL-2) connections. Trace the wiring until you find the broken or bad connection.
> > > >
> > > > 73
> > > > Mike
> > > > W5RKL
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20676. Re: Kenwood Ts 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-27 02:46:28 UTC
From: Irv
Topic: 20540 Message: 20676

It's not a difficult job -- only one board has to
be lifted. Remove the board screws, lift off a couple
holddowns or whatever they call those thingamajigs
that hold the cables in place, and you will find
it lifts and folds back neatly. I,ve done it a few
times.

When you have the covers off, take a good sized roll
of duct tape, and bang the side of the chassis a
couple times. It might just clear a dirty contact
and go back to normal operation. Eventually, though,
you are going to have to physically clean the contacts.

If the bang test works, it may work for a long time, or
a short time. There is no guarantee, but it can save a
lot of work until later. I've regularly fixed any
relay problems on my 520S with the bang test, but I've
also gone in and cleaned it.

Irv VE6BP

--- In TS-520_820_530_830@yahoogroups.com, Michael <ki0gv@...> wrote:
>
> Mike,
>
> Do you have to take all them boards on top of the radio to get to the Relay or is there
a simplier method.
>
> Thank's
> ki0gv
> Mike
>
> --- On Tue, 3/17/09, w5rkl <w5rkl@...> wrote:
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: Kenwood Ts 520s
> To: TS-520_820_530_830@yahoogroups.com
> Date: Tuesday, March 17, 2009, 9:33 AM
>
>
>
>
>
>
>
> Hi Mike,
>

> No, I was asking Bob how well he could hear the calibrator/marker signal on his radio.
>
> However, if your radio can hear the calibrator/marker signal quite well but normal incoming signals are weak, you might want to check the antenna relay contacts, they could be quite dirty.
>
> The calibrator/marker signal feeds the coil pack on the receiver side of the antenna change over relay, meaning between the coil pack and the antenna relay, not between the antenna relay and the rear panel SO-239 antenna connection. Check the relay contacts.
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@> wrote:
> >
> > Mike,
> >
> > If you are replying to my message about low signal, but could receive. When I turn the 25 khz on, Then the meter goes about 3/4 of the way up after tuning the drive stage. But the receive is'nt as strong as it was before.
> >
> > Thanks
> > ki0gv
> > Mike
> >
> > --- On Sun, 3/15/09, w5rkl <w5rkl@> wrote:
> >
> > From: w5rkl <w5rkl@>
> > Subject: [TS-520_820_ 530_830] Re: Kenwood Ts 520s
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Date: Sunday, March 15, 2009, 10:54 AM
> >
> >
> >
> >
> >
> >
> >
> > How strong is the 520's calibrator signal?
> >
> > 73
> > Mike
> > W5RKL
> >
> > --- In TS-520_820_530_ 830@yahoogroups. com, "kc8pxs618" <kc8pxs618@ ..> wrote:
> > >
> > > I have no receive on any band. I do have tx with audio. Any help would great. Thanks Marcus AB8WR
> > >
> >

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20677. S-Meter adjustment

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-27 18:30:50 UTC
From: shawnmjones20
Topic: 20677 Message: 20677

Hello to everyone,

I have recently purchased a TS-520 radio. I am a beginner ham and have a question about the s-meter. The meter does not seem to move very much when receiving, even on stronger signals. I do not have access to a RF generator as the manual suggests, are their other methods of checking and or adjusting the meter reading.

Thanks,
Shawn KJ4KNW

20678. Re: [TS-520_820_530_830] S-Meter adjustment

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-27 19:29:01 UTC
From: Dave Gmail
Topic: 20677 Message: 20678

check first to make sure:::

swr is ok high swr will reduce receive
check for an attenuator switch, if it has one, and make sure it is off

----- Original Message -----
From: "shawnmjones20" <shawnjones20@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, March 27, 2009 2:30 PM
Subject: [TS-520_820_530_830] S-Meter adjustment

> Hello to everyone,
>
> I have recently purchased a TS-520 radio. I am a beginner ham and have a
> question about the s-meter. The meter does not seem to move very much when
> receiving, even on stronger signals. I do not have access to a RF
> generator as the manual suggests, are their other methods of checking and
> or adjusting the meter reading.
>
> Thanks,
> Shawn KJ4KNW
>
>
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> Yahoo! Groups Links
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20679. Re: S-Meter adjustment

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-27 19:34:52 UTC
From: w5rkl
Topic: 20677 Message: 20679

Shawn,

The 520 has a built in Marker/Calibrator that can be used as a signal source. The switch that activates the Marker/Calibrator signal is on the FUNCTION switch. Rotate the FUNCTION switch counter clockwise one position so the FUNCTION switch knob points to the 25Khz position. This turns the Marker/Calibrator "ON". This position is NOT a normal operating position so when you are through using the Marker/Calibrator, make sure you return the FUNCTION switch to the "VFO" position, the knob points straight up (12 o'clock) position.

Tune the main tuning dial to either an even 100Khz dial setting (0, 100, 200, 300 etc) or one of the small tick marks between the 0, 100, 200, 300 dial markings. With the Marker/Calibrator turned ON, you should hear a tone. Adjust the DRIVE control for a peak meter reading. The meter, on 80 and 40, should be 10 to 20 over 9 and slightly less on 20, 15, and 10.

Make sure the RF Gain control is set for maximum RF gain (fully clockwise). The meter should rest at or near zero, left side of the meter. Rotating the RF gain control counter clockwise will cause the S meter to rise which is normal. If the RF gain control is rotated completely counter clockwise the S meter will indicate full scale to the right. Again, this is normal. The normal setting for the RF gain control is completely clockwise, maximum gain and the S meter resting at or near zero.

If you do not have the operator and/or the service manual for the 520 I highly recommend you download them at the following website.

http://bama.edebris.com/manuals/kenwood/ts520/

Since you did not mention your troubleshooting and repair technical skill level I will assume your technical skills are limited. If that is the case I recommend you find a local ham, possibly through a ham club in your area, who has the skills to work on a TS-520.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "shawnmjones20" <shawnjones20@...> wrote:
>
> Hello to everyone,
>
> I have recently purchased a TS-520 radio. I am a beginner ham and have a question about the s-meter. The meter does not seem to move very much when receiving, even on stronger signals. I do not have access to a RF generator as the manual suggests, are their other methods of checking and or adjusting the meter reading.
>
> Thanks,
> Shawn KJ4KNW
>

20680. Re: S-Meter adjustment

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-27 19:43:07 UTC
From: w5rkl
Topic: 20677 Message: 20680

One more thing. Make sure the JJY / WWV push button switch is not pressed. If the JJY / WWV push button is pressed, the incoming signal will be routed to the RF Unit's "JJY" connection instead of the normal "NAT" connection.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Shawn,
>
> The 520 has a built in Marker/Calibrator that can be used as a signal source. The switch that activates the Marker/Calibrator signal is on the FUNCTION switch. Rotate the FUNCTION switch counter clockwise one position so the FUNCTION switch knob points to the 25Khz position. This turns the Marker/Calibrator "ON". This position is NOT a normal operating position so when you are through using the Marker/Calibrator, make sure you return the FUNCTION switch to the "VFO" position, the knob points straight up (12 o'clock) position.
>
> Tune the main tuning dial to either an even 100Khz dial setting (0, 100, 200, 300 etc) or one of the small tick marks between the 0, 100, 200, 300 dial markings. With the Marker/Calibrator turned ON, you should hear a tone. Adjust the DRIVE control for a peak meter reading. The meter, on 80 and 40, should be 10 to 20 over 9 and slightly less on 20, 15, and 10.
>
> Make sure the RF Gain control is set for maximum RF gain (fully clockwise). The meter should rest at or near zero, left side of the meter. Rotating the RF gain control counter clockwise will cause the S meter to rise which is normal. If the RF gain control is rotated completely counter clockwise the S meter will indicate full scale to the right. Again, this is normal. The normal setting for the RF gain control is completely clockwise, maximum gain and the S meter resting at or near zero.
>
> If you do not have the operator and/or the service manual for the 520 I highly recommend you download them at the following website.
>
> http://bama.edebris.com/manuals/kenwood/ts520/
>
> Since you did not mention your troubleshooting and repair technical skill level I will assume your technical skills are limited. If that is the case I recommend you find a local ham, possibly through a ham club in your area, who has the skills to work on a TS-520.
>
> 73
> Mike
> W5RKL
>

>
> --- In TS-520_820_530_830@yahoogroups.com, "shawnmjones20" <shawnjones20@> wrote:
> >
> > Hello to everyone,
> >
> > I have recently purchased a TS-520 radio. I am a beginner ham and have a question about the s-meter. The meter does not seem to move very much when receiving, even on stronger signals. I do not have access to a RF generator as the manual suggests, are their other methods of checking and or adjusting the meter reading.
> >
> > Thanks,
> > Shawn KJ4KNW
> >
>

20681. Re: S-Meter adjustment

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-27 19:46:52 UTC
From: w5rkl
Topic: 20677 Message: 20681

Dave,

The original TS-520 does not have a push button attenuator switch. That didn't come along until the 520S and later models.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Dave Gmail" <ve3wej@...> wrote:
>
> check first to make sure:::
>
> swr is ok high swr will reduce receive
> check for an attenuator switch, if it has one, and make sure it is off
>
>
> ----- Original Message -----
> From: "shawnmjones20" <shawnjones20@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Friday, March 27, 2009 2:30 PM
> Subject: [TS-520_820_530_830] S-Meter adjustment
>
>
> > Hello to everyone,
> >
> > I have recently purchased a TS-520 radio. I am a beginner ham and have a
> > question about the s-meter. The meter does not seem to move very much when
> > receiving, even on stronger signals. I do not have access to a RF
> > generator as the manual suggests, are their other methods of checking and
> > or adjusting the meter reading.
> >
> > Thanks,
> > Shawn KJ4KNW
> >
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> > Yahoo! Groups Links
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20682. Digital Display

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-27 20:51:09 UTC
From: blacklabpupp
Topic: 1768 Message: 20682

If my digital goes blank what is the first thing I should check? I have an idea a ground is not connected. I just went through the rig and everything was working until after about a hour it just quit. Got any ideas where to start and what is the usually the main problem spot? Gene

20683. Re: Digital Display

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-27 21:05:26 UTC
From: w5rkl
Topic: 1768 Message: 20683

There not sufficient information to answer your question. What radio are you talking about, etc?

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "blacklabpupp" <blacklabpupp@...> wrote:
>
> If my digital goes blank what is the first thing I should check? I have an idea a ground is not connected. I just went through the rig and everything was working until after about a hour it just quit. Got any ideas where to start and what is the usually the main problem spot? Gene
>

20684. Re: [TS-520_820_530_830] Digital Display

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-27 21:08:01 UTC
From: N6WK
Topic: 1768 Message: 20684

Gene,
Which model radio is it on?
73,
Gordon
N6WK

blacklabpupp wrote:
>
> If my digital goes blank what is the first thing I should check? I
> have an idea a ground is not connected. I just went through the rig
> and everything was working until after about a hour it just quit. Got
> any ideas where to start and what is the usually the main problem
> spot? Gene
>
>

20685. Re: Digital Display

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-28 05:40:22 UTC
From: blacklabpupp
Topic: 1768 Message: 20685

Sorry folks, TS 820. I added a display from another rig that was used for parts. I took the radio to the shop and we went through the service manual and we got it back to spec. The radio works fine other wise as far as I can tell. The display was working and then I just noticed it was not working. Gene

20686. Re: Digital Display

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-28 13:09:01 UTC
From: w5rkl
Topic: 1768 Message: 20686

Hello Gene,

Clean the connection pins on both the Counter Assembly Unit and the Display Unit with DeoXit contact cleaner. Check to ensure none of the wires to the display tube behind the front panel are broken. Check the voltages on the following Counter Assembly Unit pins.

Pin 4 - 14VDC

Pin 16 - 5VDC

If pin 4 measure zero but pin 16 measure 5VDC, check the connection to the 14VDC source, it may be broken or a poor connection. If pin 4 measures 14VDC but pin 16 measure zero, check the 5V-AVR pins for the following voltages.

Pin 1 - 5V
Pin 4 - 14V

Check pin 2 to ensure it is grounded to the chassis.

If voltage on pin 1 is zero but pin 4 is 14VDC then the MC7805CP regulator chip is bad.

If both pins 1 and 4 on the 5V-AVR Unit measure zero, check the connection from pin 4 to the 14VDC source, it may have broken loose or is a bad connection. Without 14VDC on pin 4 there will be zero voltage on pin 1.

Since you installed the digital display from a parts 820S, I also recommend checking all the connections you made, one may have broken loose or is a bad connection.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "blacklabpupp" <blacklabpupp@...> wrote:
>
> Sorry folks, TS 820. I added a display from another rig that was used for parts. I took the radio to the shop and we went through the service manual and we got it back to spec. The radio works fine other wise as far as I can tell. The display was working and then I just noticed it was not working. Gene
>

20687. TS-820S Puzzlel

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-28 17:28:34 UTC
From: jsloss
Topic: 20687 Message: 20687

Given: On RX my TS-820S receives weakly w/ S-meter around S4 on 20m for an example. Weak on all bands.

On TX it: 1 Has no ALC w/ Carrier full CW in TUNE or CW and DRIVE tuned for a peak - which is not there. Bias is OK. The last 2 and/or 3 digits of the display change numerals at random when in TX. NO PO.

Known: 14VDC power supply is OK. Both relays are OK - substituted with known operational ones.

I've double checked connectors, hunted for loose screws, etc. I have either one problem effecting both RXand TX or 2 problems with one for RX and one for TX.

I'm overlooking something. What is it?

Joe k7mks

[Non-text portions of this message have been removed]

20688. Re: [TS-520_820_530_830] TS-820S Puzzlel

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-28 17:43:42 UTC
From: Dave Gmail
Topic: 20687 Message: 20688

typical ??? is the heater switch on???

----- Original Message -----
From: "jsloss" <k7mks@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, March 28, 2009 1:28 PM
Subject: [TS-520_820_530_830] TS-820S Puzzlel

> Given: On RX my TS-820S receives weakly w/ S-meter around S4 on 20m for
> an example. Weak on all bands.
>
> On TX it: 1 Has no ALC w/ Carrier full CW in TUNE or CW and DRIVE tuned
> for a peak - which is not there. Bias is OK. The last 2 and/or 3 digits
> of the display change numerals at random when in TX. NO PO.
>
> Known: 14VDC power supply is OK. Both relays are OK - substituted with
> known operational ones.
>
> I've double checked connectors, hunted for loose screws, etc. I have
> either one problem effecting both RXand TX or 2 problems with one for RX
> and one for TX.
>
> I'm overlooking something. What is it?
>
> Joe k7mks
>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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20689. Re: [TS-520_820_530_830] TS-820S Puzzlel

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-28 17:54:48 UTC
From: jsloss
Topic: 20687 Message: 20689

Heater switch is on otherwise there would be no bias indication.
Joe

[Non-text portions of this message have been removed]

20690. Re: TS-820S Puzzlel

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-28 19:54:30 UTC
From: w5rkl
Topic: 20687 Message: 20690

Hello Joe,

> Given: On RX my TS-820S receives weakly w/ S-meter around S4 on 20m for an example. Weak on all bands.

Check to see if the RF ATT button is pressed or a possible loose wire on this switch. See below about checking and, if necessary, adjusting the 3.3VDC and 9VDC on the AF-AVR board.

> On TX it: 1 Has no ALC w/ Carrier full CW in TUNE or CW and DRIVE tuned for a peak - which is not there.

In CW mode there will be "zero" ALC indication on the meter regardless of the CAR control setting, DRIVE adjust, and level of output.

In TUNE mode, however, there should be an ALC meter indication when peaking the DRIVE control with send switch turned on and CAR control set to approximately 10 o'clock. There should be more than enough RF drive to have a full scale ALC meter indication. Check resistors R5 and R6, both 56K 1/2 watt resistors, on the HV Unit board. If these resistor are bad, have increased in value or opened, there will be no ALC indication or drive in TUNE mode. While you are checking these resistors, also check R1, R2, R3, and R7, also on the HV Unit board. R1 is 100K, R2 and R3 are 680K, and R7 is 12K. Replace any that do not measure up (10% tolerance).

>Bias if OK.

I recommend checking all of the voltages on the Rectifier Unit. HV should be approximately 850VDC in standby. This includes measuring the bias voltage on the Final Unit's "FG" connection.

>The last 2 and/or 3 digits of the display change numerals at random when in TX.

Have you cleaned the "FUNCTION" switch wafers with contact cleaner? The VFO's operating voltage, 9VDC, flows through the FUNCTION switch. Any corrosion on the FUNCTION switch wafer can affect the 9VDC which will also affect the VFO's stability. Also remove the side panel on the VFO and clean the shaft to capacitor frame contact. If this "pivot" point gets dirty and/or corroided, the VFO will be unstable. Also clean the 2 pin power connection on the rear of the VFO plus the VFO output RCA plug, also on the rear of the VFO. See below for instability on the VFO. One last thing. Clean all of the digital display plugs and pins.

> Known: 14VDC power supply is OK.

Did you check the 9VDC and the 3.3VDC on the AF-AVR Unit? If the 9VDC is low then the VFO's stability plus the receiver's operating bias will be affected. The 820's receiver bias is the 3.3VDC on the AF AVR Unit board. See the 820's service manual for checking and, if necessary, adjusting both voltages. Adjust the 9VDC first then the 3.3VDC.

73
Mike
W5RKL

20691. Re: [TS-520_820_530_830] Re: TS-820S Puzzlel

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-28 20:50:36 UTC
From: jsloss
Topic: 20687 Message: 20691

Mike: What is your direct email adr so I can itemize my reply.

Joe k7mks@...

[Non-text portions of this message have been removed]

20692. Re: TS-820S Puzzle!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-28 22:44:29 UTC
From: w5rkl
Topic: 20687 Message: 20692

Joe,

I'm good on qrz.com and also on this forum.

w5rkl@...

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "jsloss" <k7mks@...> wrote:
>
> Mike: What is your direct email adr so I can itemize my reply.
>
> Joe k7mks@...
>
> [Non-text portions of this message have been removed]
>

20693. Kenwood TS520Ss, and accessories for sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-29 16:25:20 UTC
From: Spencer
Topic: 20693 Message: 20693

Hi all, After some time and consideration I have decided to liquidate my accumulation of Kenwood radio gear. There are 3 TS520s radios, one VFO520S, one AT200, two DG-5 displays and connecting cables with a few spare tubes. Assume the radios will need a little TLC but are all complete and functioning as of one year ago. If anyone would like this as a package deal for $500 USD plus shipping or local pick-up(I can meet you within 50 miles of Charlotte, North Carolina), please contact me off list.
73, Spencer W1RGO

20694. TS 830 Bandswitch Problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-29 21:34:12 UTC
From: wc2c
Topic: 20694 Message: 20694

Hi All,
I have a very dependable TS830, but when I try to tune it on on 40 meters, I have to wiggle the bandswitch very much to get the ALC to work. All other bands are okay. Any suggestions? Thanks.
73 de WC2C , Aaron

20695. Re: TS 830 Bandswitch Problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-29 23:18:39 UTC
From: w5rkl
Topic: 20694 Message: 20695

Sounds like a dirty bandswitch. Try cleaning it with DeoXit contact cleaner.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "wc2c" <wc2c@...> wrote:
>
> Hi All,
> I have a very dependable TS830, but when I try to tune it on on 40 meters, I have to wiggle the bandswitch very much to get the ALC to work. All other bands are okay. Any suggestions?
> Thanks.
> 73 de WC2C , Aaron
>

20696. vfo-230

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-30 01:51:21 UTC
From: David Owens
Topic: 11720 Message: 20696

Hello guys,
I am in need of someone who can repair my vfo-230. It shows no display. Unit was working fine. As a matter of fact I never really ever used it. Display started showing one or two digits and you could lightly tap on top and it would come back on then finally no display at all. Anybody who can honestly repair it please let me know. Thanks Dave

[Non-text portions of this message have been removed]

20697. Re: Kenwood TS520Ss, and accessories for sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-30 01:52:18 UTC
From: Spencer
Topic: 20693 Message: 20697

--- In TS-520_820_530_830@yahoogroups.com, "Spencer" <sjoy639280@...> wrote:
>
> Hi all, After some time and consideration I have decided to liquidate my accumulation of Kenwood radio gear. There are 3 TS520s radios, one VFO520S, one AT200, two DG-5 displays and connecting cables with a few spare tubes. Assume the radios will need a little TLC but are all complete and functioning as of one year ago. If anyone would like this as a package deal for $500 USD plus shipping or local pick-up(I can meet you within 50 miles of Charlotte, North Carolina), please contact me off list.
> 73, Spencer W1RGO

>The equipment is sold pending finalization. Many thanks to all who replied. 73 and God bless all!! Spencer W1RGO

20698. Re: [TS-520_820_530_830] TS-820S fault found

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-30 03:06:44 UTC
From: Seewoosankar Mandary
Topic: 20698 Message: 20698

Please Visit :
http://www.qsl.net/3b8cf
http://www.qsl.net/mars
-------Original Message-------

Hello Group,
I thought I will share the following with you.
I had to repair a TS 830 which was ok on Tx but some bands had no display , and, of course, no RX on those bands.
I replaced the PLL board from a known working unit and , it started to work again on all bands,
I put back the old pll board and I noted a funny situation . Every time I switch on , display on some bands would come and others would not. If I switch off and on again after a few minutes ,I would lose display on some other bands and band which were not working would come back to life. It was an erratic fault .
I started monitoring the DCBA band data on connector 2 of the pll and found there were wrong on the bands which were not working.The band data table is on page 4 of the circuit diagram.
I removed the connector from the pll and monitored the incoming data from the respective holes of the plug and to my surprise all data were correct.
Since those data go directly to Q16 IC ...SN74LS163 N, I started to doubt it
I managed to get one from Singapore for 20$ (in Deuch land it was 15 EU) and replaced it . Right away I got display on all bands and the rig was back to service again. Guess the faulty Ic was causing the band data to be garbled. Hope this can be of some help.
Regards
jacky 3B8CF

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.11.31/2028 - Release Date: 03/28/09 07:16:00

[Non-text portions of this message have been removed]

20699. TS-520 Alignment

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-30 03:29:32 UTC
From: altermeto
Topic: 20699 Message: 20699

Gentlemen, I"m trying to fix up an old TS-520 recently purchased by a new ham. Unknown to him, this rig has been put on CB by changing the heterodyne crystals and I think that was all. I can get the rig to work on 80 and 40 with a good 100 watts out. But on 20, 15, and 10 I can hardly hear the calibrator let alone see any sort of reading on the meter. I know that the coils are good because on 40 meters, 4 of the coils are in series and I can see a change if I tweak any of them. But as I go to 20 or 15, I can only slightly hear a change and the level is so very far down. I don't see anything else changing in the circuit except for some capacitance switching out as I go up in frequency. What am I overlooking? Thanks, Jim, K7NCG....

20700. Re: TS-520 Alignment

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-30 05:58:07 UTC
From: pierre.dooms
Topic: 20699 Message: 20700

--- In TS-520_820_530_830@yahoogroups.com, "altermeto" <k7ncg@...> wrote:
>
> Gentlemen, I"m trying to fix up an old TS-520 recently purchased by a new ham. Unknown to him, this rig has been put on CB by changing the heterodyne crystals and I think that was all. I can get the rig to work on 80 and 40 with a good 100 watts out. But on 20, 15, and 10 I can hardly hear the calibrator let alone see any sort of reading on the meter. I know that the coils are good because on 40 meters, 4 of the coils are in series and I can see a change if I tweak any of them. But as I go to 20 or 15, I can only slightly hear a change and the level is so very far down. I don't see anything else changing in the circuit except for some capacitance switching out as I go up in frequency. What am I overlooking? Thanks, Jim, K7NCG....
>
Hello Sir, I have de same problem with a old TS510.
Al the tubes has been changed,by newones. Some C's and R's Has been replaced.
The unit is after alignment, working fine on 80 and 40m band (160watts)
The other bands are very poor RX and TX reason unknown.
Best 73 to all de ON5EU

20701. Re: TS-520 Alignment

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-30 13:35:30 UTC
From: w5rkl
Topic: 20699 Message: 20701

Hello Jim,

First thing is to determine which crystal(s) were replaced to modify the 520 to 11 meters. Here is a list of the original 80 thru 10 meter crystals. They all are on the RF Unit board (X44-1080-00).

3.5 - 12.395Mhz
7.0 - 15.895Mhz
14.0 - 22.895Mhz
21.0 - 29.895Mhz
28.0 - 36.895Mhz
28.5 - 37.395Mhz
29.1 - 37.995Mhz

Replace any crystal(s) that are not the original crystal frequencies. Replacement crystals can be obtained for $21.95 a piece plus shipping from International Crystals in Oklahoma City, OK. Check their website at the following link:

http://www.icmfg.com/hamradio-manufacturers.html

Also thoroughly check the RF Unit for the following fixed capacitors either in parallel with, in series with, or both, across each band's coil. Any capacitors that is not the correct value, replace it with the correct value and realign the coil(s). Replacement capacitors can be obtained from Mouser Electronics.

www.mouser.com

20 meters - C3 in parallel with L3 with C7 in series to ground with C3.

15 meters - C4 in parallel with L4.

There are no fixed capacitors in parallel with or in series with any 10 meter coils. If you find a capacitor in parallel with any 10 meter coil, remove it. Don't forget to look at the bottom of the RF Unit board as the CB hacker may have installed capacitors on the bottom of the board, the foil/solder side.

These steps will require the 520 service manual and schematic which can be obtained at the following website.

http://bama.edebris.com/manuals/kenwood/ts520/

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "altermeto" <k7ncg@...> wrote:
>
> Gentlemen, I"m trying to fix up an old TS-520 recently purchased by a new ham. Unknown to

him, this rig has been put on CB by changing the heterodyne crystals and I think that was all. I can get the rig to work on 80 and 40 with a good 100 watts out. But on 20, 15, and 10 I can hardly hear the calibrator let alone see any sort of reading on the meter. I know that the coils are good because on 40 meters, 4 of the coils are in series and I can see a change if I tweak any of them. But as I go to 20 or 15, I can only slightly hear a change and the level is so very far down. I don't see anything else changing in the circuit except for some capacitance switching out as I go up in frequency. What am I overlooking? Thanks, Jim, K7NCG....
>

20702. Re: TS-520 Alignment

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-30 13:47:58 UTC
From: w5rkl
Topic: 20699 Message: 20702

Hello Pierre,

Since you may have the same problem that Jim has, here's what I suggested to Jim:

First thing is to determine which crystal(s) were replaced to modify the 520 to 11 meters. Here is a list of the original 80 thru 10 meter crystals. They all are on the RF Unit board (X44-1080-00).

3.5 - 12.395Mhz
7.0 - 15.895Mhz
14.0 - 22.895Mhz
21.0 - 29.895Mhz
28.0 - 36.895Mhz
28.5 - 37.395Mhz
29.1 - 37.995Mhz

Replace any crystal(s) that are not the original crystal frequencies. Replacement crystals can be obtained for $21.95 a piece plus shipping from International Crystals in Oklahoma City, OK. Check their website at the following link:

http://www.icmfg.com/hamradio-manufacturers.html

Also thoroughly check the RF Unit for the following fixed capacitors either in parallel with, in series with, or both, across each band's coil. Any capacitors that is not the correct value, replace it with the correct value and realign the coil(s). Replacement capacitors can be obtained from Mouser Electronics.

www.mouser.com

20 meters - C3 in parallel with L3 with C7 in series to ground with C3.

15 meters - C4 in parallel with L4.

There are no fixed capacitors in parallel with or in series with any 10 meter coils. If you find a capacitor in parallel with any 10 meter coil, remove it. Don't forget to look at the bottom of the RF Unit board as the CB hacker may have installed capacitors on the bottom of the board, the foil/solder side.

These steps will require the 520 service manual and schematic which can be obtained at the following website.

http://bama.edebris.com/manuals/kenwood/ts520/

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "pierre.dooms" <on5eu@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "altermeto" <k7ncg@> wrote:
> >
> > Gentlemen, I"m trying to fix up an old TS-520 recently purchased by a new ham. Unknown to him, this rig has been put on CB by changing the heterodyne crystals and I think that was all. I can get the rig to work on 80 and 40 with a good 100 watts out. But on 20, 15, and 10 I can hardly hear the calibrator let alone see any sort of reading on the meter. I know that the coils are good because on 40 meters, 4 of the coils are in series and I can see a change if I tweak any of them. But as I go to 20 or 15, I can only slightly hear a change and the level is so very far down. I don't see anything else changing in the circuit except for some capacitance switching out as I go up in frequency. What am I overlooking? Thanks, Jim, K7NCG....
> >
> Hello Sir, I have de same problem with a old TS510.
> Al the tubes has been changed,by newones. Some C's and R's Has been replaced.
> The unit is after alignment, working fine on 80 and 40m band (160watts)
> The other bands are very poor RX and TX reason unknown.
> Best 73 to all de ON5EU
>

20703. Re: [TS-520_820_530_830] Re: TS-520 Alignment

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-30 17:22:12 UTC
From: pierre dooms
Topic: 20699 Message: 20703

Thanks Mike for your information.
As I remember there is a possibility that my TRX was
changed for the CB-band, 35 years ago when I sold it you someone. hi
Now I got it back... it remembers me of the good old days where ....there was no digital...
I will check it as soon as possible.
Best 73 to all
ON5EU

----- Original Message -----
From: w5rkl
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, March 30, 2009 3:47 PM
Subject: [TS-520_820_530_830] Re: TS-520 Alignment

Hello Pierre,

Since you may have the same problem that Jim has, here's what I suggested to Jim:

First thing is to determine which crystal(s) were replaced to modify the 520 to
11 meters. Here is a list of the original 80 thru 10 meter crystals. They all
are on the RF Unit board (X44-1080-00).

3.5 - 12.395Mhz
7.0 - 15.895Mhz
14.0 - 22.895Mhz
21.0 - 29.895Mhz
28.0 - 36.895Mhz
28.5 - 37.395Mhz
29.1 - 37.995Mhz

Replace any crystal(s) that are not the original crystal frequencies.
Replacement crystals can be obtained for $21.95 a piece plus shipping from
International Crystals in Oklahoma City, OK. Check their website at the
following link:

http://www.icmfg.com/hamradio-manufacturers.html

Also thoroughly check the RF Unit for the following fixed capacitors either in
parallel with, in series with, or both, across each band's coil. Any capacitors
that is not the correct value, replace it with the correct value and realign the
coil(s). Replacement capacitors can be obtained from Mouser Electronics.

www.mouser.com

20 meters - C3 in parallel with L3 with C7 in series to ground with C3.

15 meters - C4 in parallel with L4.

There are no fixed capacitors in parallel with or in series with any 10 meter coils. If you find a capacitor in parallel with any 10 meter coil, remove it. Don't forget to look at the bottom of the RF Unit board as the CB hacker may have installed capacitors on the bottom of the board, the foil/solder side.

These steps will require the 520 service manual and schematic which can be obtained at the following website.

http://bama.edebris.com/manuals/kenwood/ts520/

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "pierre.dooms" <on5eu@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "altermeto" <k7ncg@> wrote:
> >
> > Gentlemen, I"m trying to fix up an old TS-520 recently purchased by a new ham. Unknown to him, this rig has been put on CB by changing the heterodyne crystals and I think that was all. I can get the rig to work on 80 and 40 with a good 100 watts out. But on 20, 15, and 10 I can hardly hear the calibrator let alone see any sort of reading on the meter. I know that the coils are good because on 40 meters, 4 of the coils are in series and I can see a change if I tweak any of them. But as I go to 20 or 15, I can only slightly hear a change and the level is so very far down. I don't see anything else changing in the circuit except for some capacitance switching out as I go up in frequency. What am I overlooking? Thanks, Jim, K7NCG....
> >
> Hello Sir, I have de same problem with a old TS510.
> Al the tubes has been changed,by newones. Some C's and R's Has been replaced.
> The unit is after alignment, working fine on 80 and 40m band (160watts)
> The other bands are very poor RX and TX reason unknown.
> Best 73 to all de ON5EU
>

_____ Information from ESET Smart Security, version of virus signature database 3974 (20090330) _____

The message was checked by ESET Smart Security.

http://www.eset.com

[Non-text portions of this message have been removed]

20704. Re: [TS-520_820_530_830] Re: TS-520 Alignment

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-30 18:10:00 UTC
From: martin
Topic: 20699 Message: 20704

Hi Guys. I remember back in 1990 when I was first licensed (as a novice), I had a TS-520 that had been modified for 11M. Two 10M crystals had been changed. I managed to replace them with the correct crystals, and 10M was restored to the correct frequencies. However, another mod had been done. CW mode had been converted to AM mode somehow, and I was never able to figure out how, or how to undo that one.

Does anyone have any idea how that was done, and how to undo such a mod? I am just curious. I do not have that radio anymore, and I am not interested in 11M operation. I was not interested in CW (or AM) mode at the time. It would be interesting to know how such a mod was done, and if anyone came across a TS-520 so modified, it would be useful to know how to restore it to original specs.

TTYL

w5rkl wrote:
> Hello Jim,
>
> First thing is to determine which crystal(s) were replaced to modify the 520 to 11 meters. Here is a list of the original 80 thru 10 meter crystals. They all are on the RF Unit board (X44-1080-00).
>
> 3.5 - 12.395Mhz
> 7.0 - 15.895Mhz
> 14.0 - 22.895Mhz
> 21.0 - 29.895Mhz
> 28.0 - 36.895Mhz
> 28.5 - 37.395Mhz
> 29.1 - 37.995Mhz
>
> Replace any crystal(s) that are not the original crystal frequencies. Replacement crystals can be obtained for $21.95 a piece plus shipping from International Crystals in Oklahoma City, OK. Check their website at the following link:
>
> http://www.icmfg.com/hamradio-manufacturers.html
>
> Also thoroughly check the RF Unit for the following fixed capacitors either in parallel with, in series with, or both, across each band's coil. Any capacitors that is not the correct value, replace it with the correct value and realign the coil(s). Replacement capacitors can be obtained from Mouser Electronics.
>
> www.mouser.com
>
> 20 meters - C3 in parallel with L3 with C7 in series to ground with C3.
>

> 15 meters - C4 in parallel with L4.
>
> There are no fixed capacitors in parallel with or in series with any 10 meter coils. If you find a capacitor in parallel with any 10 meter coil, remove it. Don't forget to look at the bottom of the RF Unit board as the CB hacker may have installed capacitors on the bottom of the board, the foil/solder side.
>
> These steps will require the 520 service manual and schematic which can be obtained at the following website.
>
> http://bama.edebris.com/manuals/kenwood/ts520/
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com, "altermeto" <k7ncg@...> wrote:
>> Gentlemen, I"m trying to fix up an old TS-520 recently purchased by a new ham. Unknown to him, this rig has been put on CB by changing the heterodyne crystals and I think that was all. I can get the rig to work on 80 and 40 with a good 100 watts out. But on 20, 15, and 10 I can hardly hear the calibrator let alone see any sort of reading on the meter. I know that the coils are good because on 40 meters, 4 of the coils are in series and I can see a change if I tweak any of them. But as I go to 20 or 15, I can only slightly hear a change and the level is so very far down. I don't see anything else changing in the circuit except for some capacitance switching out as I go up in frequency. What am I overlooking? Thanks, Jim, K7NCG....
>>
>
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

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www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

20705. Re: TS-520 Alignment

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-31 04:16:10 UTC
From: w5rkl
Topic: 20699 Message: 20705

There are three methods to produce AM from a TS-520.

1. Unbalance the balance modulator to produce some RF carrier in sideband and modulate the balance modulator in either sideband with audio from the speech amplifier. This method is the worse of the two.

2. In addition to method 1 above, bypass the crystal filter.

3. Using the CW mode requires a bit more work. The CW mode's carrier generator produces the root RF carrier signal and it's RF signal level is controlled by the CAR control. Modulation, in this method, is supplied by an external modulator. The output of the external modulator is wired in series with the final amplifier's B+. The final tube screens and plates are modulated in this method. The normal front panel MIC socket nor the MIC gain are NOT used since the modulator is "external" and all audio gain is controlled by the MIC gain on the external modulator. Normal AM RF output is kept between 8 and 10 watts, again by adjusting the CAR control, NOT the front panel's MIC gain.

An important thing to remember is, AM operates at "100%" duty cycle. This means an RF carrier output is transmitted 100% of the time while the transmitter is on the air, with or without modulation! This produces much more heat, higher stress on the final amplifier, and a higher demand on the power supply. A normal sideband transmitter/transceiver is designed to produce an RF output signal only 50% of the time, in USB, LSB, and CW, which places much less stress on the final amplifier and power supply, etc.

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@...> wrote:
>
> Hi Guys. I remember back in 1990 when I was first licensed (as a
> novice), I had a TS-520 that had been modified for 11M. Two 10M
> crystals had been changed. I managed to replace them with the correct
> crystals, and 10M was restored to the correct frequencies. However,
> another mod had been done. CW mode had been converted to AM mode
> somehow, and I was never able to figure out how, or how to undo that one.
>
> Does anyone have any idea how that was done, and how to undo such a
> mod? I am just curious. I do not have that radio anymore, and I am
> not interested in 11M operation. I was not interested in CW (or AM)
> mode at the time. It would be interesting to know how such a mod was
> done, and if anyone came across a TS-520 so modified, it would be
> useful to know how to restore it to original specs.
>
> TTYL
>
> w5rkl wrote:

> > Hello Jim,
> >
> > First thing is to determine which crystal(s) were replaced to modify the 520 to 11 meters. Here is a list of the original 80 thru 10 meter crystals. They all are on the RF Unit board (X44-1080-00).
> >
> > 3.5 - 12.395Mhz
> > 7.0 - 15.895Mhz
> > 14.0 - 22.895Mhz
> > 21.0 - 29.895Mhz
> > 28.0 - 36.895Mhz
> > 28.5 - 37.395Mhz
> > 29.1 - 37.995Mhz
> >
> > Replace any crystal(s) that are not the original crystal frequencies. Replacement crystals can be obtained for $21.95 a piece plus shipping from International Crystals in Oklahoma City, OK. Check their website at the following link:
> >
> > http://www.icmfg.com/hamradio-manufacturers.html
> >
> > Also thoroughly check the RF Unit for the following fixed capacitors either in parallel with, in series with, or both, across each band's coil. Any capacitors that is not the correct value, replace it with the correct value and realign the coil(s). Replacement capacitors can be obtained from Mouser Electronics.
> >
> > www.mouser.com
> >
> > 20 meters - C3 in parallel with L3 with C7 in series to ground with C3.
> >
> > 15 meters - C4 in parallel with L4.
> >
> > There are no fixed capacitors in parallel with or in series with any 10 meter coils. If you find a capacitor in parallel with any 10 meter coil, remove it. Don't forget to look at the bottom of the RF Unit board as the CB hacker may have installed capacitors on the bottom of the board, the foil/solder side.
> >
> > These steps will require the 520 service manual and schematic which can be obtained at the following website.
> >
> > http://bama.edebris.com/manuals/kenwood/ts520/
> >
> > 73
> > Mike
> > W5RKL
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "altermeto" <k7ncg@> wrote:
> >> Gentlemen, I"m trying to fix up an old TS-520 recently purchased by a new ham. Unknown to him, this rig has been put on CB by changing the heterodyne crystals and I think that was all. I can get the rig to work on 80 and 40 with a good 100 watts out. But on 20, 15, and 10 I can hardly hear the calibrator let alone see any sort of reading on the meter. I

know that the coils are good because on 40 meters, 4 of the coils are in series and I can see a change if I tweak any of them. But as I go to 20 or 15, I can only slightly hear a change and the level is so very far down. I don't see anything else changing in the circuit except for some capacitance switching out as I go up in frequency. What am I overlooking? Thanks, Jim, K7NCG....
> >>
> >
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> --
> CUL8R
>
> KBOHAE kb0hae@... Martin Campbell
>
> A Satisfied Sidux Linux user! To get Sidux go to:
> www.sidux.com/index.html
> "Protect your digital freedom and privacy, eliminate DRM, learn more
> at http://www.defectivebydesign.org/what_is_drm"
>

20706. Wiring a MC-60 (8 pin) to a 820s (4 pin)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-31 03:53:23 UTC
From: Kevin Rea
Topic: 20706 Message: 20706

hi guys,
anyone have a wiring pinout to wire a kenwood mc-60 to a kenwood 820s ?

thanks,
kevin
k6rea

20707. Re: [TS-520_820_530_830] Re: TS-520 Alignment

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-31 04:37:10 UTC
From: martin
Topic: 20699 Message: 20707

Hi Mike. Well, in the TS-520 that I had, the radio's original mic gain and mic socket were used. Also, AM signals were received in CW mode, and no tone was heard on CW signals at all.

I did find a mod on the net, but it seems that someone almost had to re-engineer the CW on the radio that I had. Obviously, someone went to a lot of trouble to modify that radio. A lot of knowledge and work were required that could have been put to better use.

TTYL

w5rkl wrote:
> There are three methods to produce AM from a TS-520.
>
> 1. Unbalance the balance modulator to produce some RF carrier in
> sideband and modulate the balance modulator in either sideband with
> audio from the speech amplifier. This method is the worse of the
> two.
>
> 2. In addition to method 1 above, bypass the crystal filter.
>
> 3. Using the CW mode requires a bit more work. The CW mode's
> carrier generator produces the root RF carrier signal and it's RF
> signal level is controlled by the CAR control. Modulation, in this
> method, is supplied by an external modulator. The output of the
> external modulator is wired in series with the final amplifier's
> B+. The final tube screens and plates are modulated in this method.
> The normal front panel MIC socket nor the MIC gain are NOT used
> since the modulator is "external" and all audio gain is controlled
> by the MIC gain on the external modulator. Normal AM RF output is
> kept between 8 and 10 watts, again by adjusting the CAR control,
> NOT the front panel's MIC gain.
>
> An important thing to remember is, AM operates at "100%" duty
> cycle. This means an RF carrier output is transmitted 100% of the
> time while the transmitter is on the air, with or without
> modulation! This produces much more heat, higher stress on the
> final amplifier, and a higher demand on the power supply. A normal
> sideband transmitter/transceiver is designed to produce an RF
> output signal only 50% of the time, in USB, LSB, and CW, which
> places much less stress on the final amplifier and power supply,
> etc.
>
> Mike W5RKL

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

20708. Re: [TS-520_820_530_830] Wiring a MC-60 (8 pin) to a 820s (4 pin)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-31 05:02:47 UTC
From: martin
Topic: 20706 Message: 20708

Hi Kevin. There is a PDF file of the mic wiring for Kenwood radios
available. The Mic line (the one with the shield wrapped around it,
pin 1 on the 8 pin plug) goes to pin 1 of the 4 pin plug. The shield
(pin 7 on the 8 pin plug) goes to pin 4 of the 4 pin mic plug. The
chassis ground (the wire that was on the center pin of the 8 pin plug
pin 8) goes to pin 3 of the 4 pin mic plug. The PTT wire (pin 2 on
the 8 pin plug) goes to pin 2 of the 4 pin plug.

The other wires on the MC-60 cord are not used. The pin numbers are
marked on the plugs. Sometimes on the front, sometimes on the back,
sometimes both places.

I just made a 4 to 8 pin adapter to connect my Super MC-50 to my
TS-430S. I made the adapter instead of wiring an 8 pin plug on the
mic so I can still use it on my TS-530S, or my TS-130SE if I want to.

I will post a pic of the Super MC-50 in the photo section.

TTYL

Kevin Rea wrote:
> hi guys,
> anyone have a wiring pinout to wire a kenwood mc-60 to a kenwood 820s ?
>
> thanks,
> kevin
> k6rea
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

20709. Re: Kenwood TS520Ss, and accessories for sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-31 17:47:05 UTC
From: Spencer
Topic: 20693 Message: 20709

--- In TS-520_820_530_830@yahoogroups.com, "Spencer" <sjoy639280@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Spencer" <sjoy639280@> wrote:
> >
> > Hi all, After some time and consideration I have decided to liquidate my accumulation of Kenwood radio gear. There are 3 TS520s radios, one VFO520S, one AT200, two DG-5 displays and connecting cables with a few spare tubes. Assume the radios will need a little TLC but are all complete and functioning as of one year ago. If anyone would like this as a package deal for $500 USD plus shipping or local pick-up(I can meet you within 50 miles of Charlotte, North Carolina), please contact me off list.
> > 73, Spencer W1RGO
>
> >I jumped too soon, the deal fell through and the items are still available. If they do not sell as a group I will consider selling parts and parcels. THanks and 73!! Spencer W1RGO

20710. TS-530s final choke

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-31 01:33:06 UTC
From: k2pjw
Topic: 20710 Message: 20710

Hi,
I am trying to revive an ailing ts-530s that I recently purchased. I'm having a hard time locating a repacement final choke, part no. L-33-0635-05. Does anyone have a source for these? Thanks in advance & Best 73, Phil

20711. Digital Display and Counter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-31 18:09:27 UTC
From: blacklabpupp
Topic: 20711 Message: 20711

Will the counter and digital display from a 530 or 830 work in an 820? I have several units here to work with. I was quite lucky to be given all these peices but I am only working on one at a time. One I know to be a parts radio. But it all is quite a load to figure it all out. Gene

20712. RE: [TS-520_820_530_830] Re: Kenwood TS520Ss, and accessories for sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-31 18:10:28 UTC
From: Aaron Lamb
Topic: 20693 Message: 20712

Spence, let me know if you want to get rid of those DG-5 separate. been trying to find one at a reasonable price.

PS. haven't heard you on in a while but then again my dipole turned into a 160 loop so I don't if I am skipping over you now.

Aaron

KD4GSL

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Spencer
Sent: Tuesday, March 31, 2009 1:47 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: Kenwood TS520Ss, and accessories for sale

--- In TS-520_820_530_830@yahoogroups.com <mailto:TS-520_820_530_830%40yahoogroups.com> , "Spencer" <sjoy639280@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com <mailto:TS-520_820_530_830%40yahoogroups.com> , "Spencer" <sjoy639280@> wrote:
> >
> > Hi all, After some time and consideration I have decided to liquidate my accumulation of Kenwood radio gear. There are 3 TS520s radios, one VFO520S, one AT200, two DG-5 displays and connecting cables with a few spare tubes. Assume the radios will need a little TLC but are all complete and functioning as of one year ago. If anyone would like this as a package deal for $500 USD plus shipping or local pick-up(I can meet you within 50 miles of Charlotte, North Carolina), please contact me off list.
> > 73, Spencer W1RGO
>
> >I jumped too soon, the deal fell through and the items are still available. If they do not sell as a group I will consider selling parts and parcels. THanks and 73!! Spencer W1RGO

[Non-text portions of this message have been removed]

20713. Re: [TS-520_820_530_830] Wiring a MC-60 (8 pin) to a 820s (4 pin)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-31 19:42:21 UTC
From: Dave Gmail
Topic: 20706 Message: 20713

easiest find a mj84 kenwood adapter

----- Original Message -----
From: "Kevin Rea" <kevinrea@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, March 30, 2009 11:53 PM
Subject: [TS-520_820_530_830] Wiring a MC-60 (8 pin) to a 820s (4 pin)

> hi guys,
> anyone have a wiring pinout to wire a kenwood mc-60 to a kenwood 820s ?
>
> thanks,
> kevin
> k6rea
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
>

20714. Age of radio

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-31 19:08:22 UTC
From: k2pjw
Topic: 20714 Message: 20714

Hi,
The ts-530s I recently purchased has 111xxxx as the serial number. I thought this radio wasn't manufactured until 1981. This would make it 1979 according to what I know of serial number interpretation. Can anyone shed light on if 1979 is indeed the age of my ts-530s with a serial number starting with 111? Thank You.

20715. vfo-230

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-31 21:21:57 UTC
From: David Owens
Topic: 11720 Message: 20715

Does anyone know who can repair a vfo-230? My display quit and all preliminary checks turned up nothing. Help needed . I am willing to tackle it but really don't know where to start. So help!!!! Thanks Dave kc5ee

[Non-text portions of this message have been removed]

20716. Load Control on TS-530 peaks signal ??

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-31 21:41:14 UTC
From: Gordon
Topic: 20716 Message: 20716

I have a TS-530S here on the bench. I have never recalled running into this before. Normally during Receive, you only need to peak the Drive control to peak the received signal. However, on this 530, you must peak the Load control as well. It sure doesn't seem normal to me.
Any suggestions?

Gordon
N6WK

20717. Re: Load Control on TS-530 peaks signal ??

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-31 22:13:15 UTC
From: Gordon
Topic: 20716 Message: 20717

OK, I solved it. Never ran into this before. Any one want to guess Where/What the problem was?

73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> I have a TS-530S here on the bench. I have never recalled running into this before. Normally during Receive, you only need to peak the Drive control to peak the received signal. However, on this 530, you must peak the Load control as well. It sure doesn't seem normal to me.
> Any suggestions?
>
> Gordon
> N6WK
>

20718. Re: [TS-520_820_530_830] Re: Load Control on TS-530 peaks signal ??

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-31 22:21:06 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20716 Message: 20718

On Tue, 2009-03-31 at 22:13 +0000, Gordon wrote:
> OK, I solved it. Never ran into this before. Any one want to guess
> Where/What the problem was?
>
> 73,
> Gordon
> N6WK

Antenna relay contacts welded shut, slapping the pi network across the
antenna socket even in receive?

Gordon MM3YEQ

20719. Re: Load Control on TS-530 peaks signal ??

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-31 22:31:25 UTC
From: Gordon
Topic: 20716 Message: 20719

Gordon,
You are GOOD!
Almost exactly what it was. Someone had bent one of the contacts inside the relay cover so it was shorted.
New Relay and all is well now.

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce MM3YEQ <gordon@...> wrote:
>
> On Tue, 2009-03-31 at 22:13 +0000, Gordon wrote:
> > OK, I solved it. Never ran into this before. Any one want to guess
> > Where/What the problem was?
> >
> > 73,
> > Gordon
> > N6WK
>
> Antenna relay contacts welded shut, slapping the pi network across the
> antenna socket even in receive?
>
> Gordon MM3YEQ
>

20720. ts-830s final tube replacement

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-31 22:26:07 UTC
From: n9xvt
Topic: 20720 Message: 20720

i am working on a ts-830s that only can muster about 60 watts out
have figured that it needs new 6146 tubes in the finals
i need help with re-neutralization (sorry my spelling sucks)
and i have to adjust the bias? Help,,Thanks in advance!
73's n9xvt

20721. AT-200 with a TS-830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-31 22:28:19 UTC
From: chh192002
Topic: 20721 Message: 20721

Does the AT-200 work with the TS-830? What are the differences between the 200 and the 230 designated for the 830?

20722. Re: [TS-520_820_530_830] AT-200 with a TS-830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-31 22:45:25 UTC
From: Dave Gmail
Topic: 20721 Message: 20722

i think the 230 has warc, the 200 does NOT

connection wise, you would have to check the manuals..(imagine that) . or
wait for someone else to answer this part

----- Original Message -----
From: "chh192002" <chh192002@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, March 31, 2009 6:28 PM
Subject: [TS-520_820_530_830] AT-200 with a TS-830

> Does the AT-200 work with the TS-830? What are the differences between
> the 200 and the 230 designated for the 830?
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
>

20723. Re: [TS-520_820_530_830] Re: Kenwood TS520Ss, and accessories for sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-31 22:53:24 UTC
From: John A
Topic: 20693 Message: 20723

If you do decide to break up the package, I may be interested in the AT-200. I took Bob up on his offer of the TS-520 to replace my TS-520S I lost in the fire a couple of weeks ago, but since I also lost my antenna when the east end of the barn fell, I will likely end up just putting up a long wire, so I will have to find a tuner of some kind. Please keep me in mind. Or if anyone on the group happens to have a tuner you no longer need, please contact me. I'm also in need of an outboard power meter of some type.

73's
John

On Mar 31, 2009, at 1:47 PM, Spencer wrote:

> --- In TS-520_820_530_830@yahoogroups.com, "Spencer"
> <sjoy639280@...> wrote:
>>
>> --- In TS-520_820_530_830@yahoogroups.com, "Spencer" <sjoy639280@>
>> wrote:
>>>
>>> Hi all, After some time and consideration I have decided to
>>> liquidate my accumulation of Kenwood radio gear. There are 3
>>> TS520s radios, one VFO520S, one AT200, two DG-5 displays and
>>> connecting cables with a few spare tubes. Assume the radios will
>>> need a little TLC but are all complete and functioning as of one
>>> year ago. If anyone would like this as a package deal for $500
>>> USD plus shipping or local pick-up(I can meet you within 50 miles
>>> of Charlotte, North Carolina), please contact me off list.
>>> 73, Spencer W1RGO
>>
>> I jumped too soon, the deal fell through and the items are still
>> available. If they do not sell as a group I will consider selling
>> parts and parcels. THanks and 73!! Spencer W1RGO

20724. RE: [TS-520_820_530_830] Re: Kenwood TS520Ss, and accessories for sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-03-31 23:10:01 UTC
From: Walter Milton
Topic: 20693 Message: 20724

John,

After all is said and done and you still do not have a antenna tuner. Drop me a line I am good in the call book and QRZ. I have a MFJ 300 watt tuner that you can have if you want it all you have to do is pay shipping from 08105.

Walt, KA2NJF

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of John A
Sent: Tuesday, March 31, 2009 6:53 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: Kenwood TS520Ss, and accessories for sale

If you do decide to break up the package, I may be interested in the AT-200. I took Bob up on his offer of the TS-520 to replace my TS-520S I lost in the fire a couple of weeks ago, but since I also lost my antenna when the east end of the barn fell, I will likely end up just putting up a long wire, so I will have to find a tuner of some kind. Please keep me in mind. Or if anyone on the group happens to have a tuner you no longer need, please contact me. I'm also in need of an outboard power meter of some type.

73's
John

On Mar 31, 2009, at 1:47 PM, Spencer wrote:

> --- In TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com> , "Spencer"
> <sjoy639280@...> wrote:
>>
>> --- In TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com> , "Spencer" <sjoy639280@>
>> wrote:
>>>
>>> Hi all, After some time and consideration I have decided to
>>> liquidate my accumulation of Kenwood radio gear. There are 3
>>> TS520s radios, one VFO520S, one AT200, two DG-5 displays and
>>> connecting cables with a few spare tubes. Assume the radios will
>>> need a little TLC but are all complete and functioning as of one
>>> year ago. If anyone would like this as a package deal for $500
>>> USD plus shipping or local pick-up(I can meet you within 50 miles

>>> of Charlotte, North Carolina), please contact me off list.
>>> 73, Spencer W1RGO
>>
>>> I jumped too soon, the deal fell through and the items are still
>>> available. If they do not sell as a group I will consider selling
>>> parts and parcels. THanks and 73!! Spencer W1RGO

[Non-text portions of this message have been removed]

20725. Re: ts-830s final tube replacement

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-01 00:33:26 UTC
From: sv0xbq
Topic: 20720 Message: 20725

--- In TS-520_820_530_830@yahoogroups.com, "n9xvt" <n9xvt@...> wrote:
>
> i am working on a ts-830s that only can muster about 60 watts out
> have figured that it needs new 6146 tubes in the finals
> i need help with re-neutralization (sorry my spelling sucks)
> and i have to adjust the bias? Help,,Thanks in advance!
> 73's n9xvt
>

Before you replace the tubes check the two 5 ohm resistors under the tube bases. Mine had gone high with age and they didn't look cooked.

I've found an easy way to neutralise the finals is to adjust the neutralising cap until the power out peaks at exactly the same point as the plate current Ip dips. Tune up to full power and note the minimum plate current you can get while adjusting only the drive and then still by adjusting only the drive tune for the max power out. They both should occur at exactly the same drive setting. Keep one hand in your pocket and only use a plastic tool to make the neutralising cap adjustment.

Chris SV0XBQ

20726. Re: ts-830s final tube replacement

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-01 03:45:50 UTC
From: n9xvt
Topic: 20720 Message: 20726

--- In TS-520_820_530_830@yahoogroups.com, "sv0xbq" <alexandchrisp@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "n9xvt" <n9xvt@> wrote:
> >
> > i am working on a ts-830s that only can muster about 60 watts out
> > have figured that it needs new 6146 tubes in the finals
> > i need help with re-neutralization (sorry my spelling sucks)
> > and i have to adjust the bias? Help,,Thanks in advance!
> > 73's n9xvt
> >
>
>
> Before you replace the tubes check the two 5 ohm resistors under the tube bases. Mine had gone high with age and they didn't look cooked.
>
> I've found an easy way to neutralise the finals is to adjust the neutralising cap until the power out peaks at exactly the same point as the plate current Ip dips. Tune up to full power and note the minimum plate current you can get while adjusting only the drive and then still by adjusting only the drive tune for the max power out. They both should occur at exactly the same drive setting. Keep one hand in your pocket and only use a plastic tool to make the neutralising cap adjustment.
>
> Chris SV0XBQ
>
upon further testing I'm finding the hv to be a little low,,
I'm only getting about 700 volts,,maybe I jumped on the "tubes gotta be bad" wagon too soon?

20727. Re: [TS-520_820_530_830] Re: ts-830s final tube replacement

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-01 09:22:03 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20720 Message: 20727

On Wed, 2009-04-01 at 00:33 +0000, sv0xbq wrote:
> --- In TS-520_820_530_830@yahoogroups.com, "n9xvt" <n9xvt@...> wrote:
> >
> > i am working on a ts-830s that only can muster about 60 watts out
> > have figured that it needs new 6146 tubes in the finals
> > i need help with re-neutralization (sorry my spelling sucks)
> > and i have to adjust the bias? Help,,Thanks in advance!
> > 73's n9xvt
> >
>
>
> Before you replace the tubes check the two 5 ohm resistors under the
> tube bases. Mine had gone high with age and they didn't look cooked.

It's worth remembering that this would make the anode current read high when the radio is correctly adjusted - so if you set it for 200mA then you would actually be getting a much lower current through the valves.

> I've found an easy way to neutralise the finals is to adjust the
> neutralising cap until the power out peaks at exactly the same point
> as the plate current Ip dips. Tune up to full power and note the
> minimum plate current you can get while adjusting only the drive and
> then still by adjusting only the drive tune for the max power out.
> They both should occur at exactly the same drive setting. Keep one
> hand in your pocket and only use a plastic tool to make the
> neutralising cap adjustment.

I found that ordinary plastic trimmers were far too soft, so I made one out of an acrylic knitting needle chopped to about 6" long with the end filed to a screwdriver point.

Gordon

20728. Re: [TS-520_820_530_830] Re: ts-830s final tube replacement

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-01 09:24:40 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20720 Message: 20728

On Wed, 2009-04-01 at 00:33 +0000, sv0xbq wrote:

> Keep one hand in your pocket and only use a plastic tool to make the
> neutralising cap adjustment.

Forgot to mention - with *all the power off* and using a metal screwdriver with a plastic sleeve up most of the shaft (same one as I use for working on live connection boxes) I spun the neutralising cap a few times in both directions to break the stiction. It was very very stiff to turn initially, probably because it needed a thin smear of 30-year-old grease spread around the shaft bush.

Gordon

20729. Re: [TS-520_820_530_830] Re: ts-830s final tube replacement

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-01 15:17:29 UTC
From: martin
Topic: 20720 Message: 20729

Hi Guys. If you do much work on radios it might pay to get a
fiberglass screwdriver. Its stiffer than the plastic tuning tools,
and the end can easily be filed to whatever size/shape you need.

TTYL

Gordon JC Pearce MM3YEQ wrote:
> On Wed, 2009-04-01 at 00:33 +0000, sv0xbq wrote:

> I found that ordinary plastic trimmers were far too soft, so I made one
> out of an acrylic knitting needle chopped to about 6" long with the end
> filed to a screwdriver point.
>
> Gordon
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

20730. cooling

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-01 16:20:56 UTC
From: wb4mnk@bellsouth.net
Topic: 20730 Message: 20730

I am interested in any ideas about cooling the TS-830S more efficiently. Has anyone tried a different fan with good results ? I use the TS-830S on digital modes at a lower power up to 30 watts and it seems to run a little hotter than I like. Any ideas and suggestions will be appreciated.

73,
Art

20731. Re: cooling

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-01 16:51:38 UTC
From: Aaron
Topic: 20730 Message: 20731

Well, I have not tried this on a Hybrid but I will share info about cooling that is applicable from building lots of high performance computers.

You can add a fan with a higher CFM but it will most likely generate more noise. Also with the higher CFM and the current venting you will generate a higher, more negative air pressure thus acting like a vacuum cleaner. This will generate more noise too but it will also cause more dust to accumulate which in turn will cause more heat. Usually when I build a hotrod PC I try to have more air going in than going out for a positive air pressure. This keeps everything cool and lowers the dust buildup...also less fan/air noise.

You might look at it like putting on larger carburetor jets, with a higher flow intake and not changing the exhaust on a motor.

Now your best bet maybe to get some perforated grate metal and form a new final cage cover. This would allow more cooler air to come in without upping the CFM of the fan.
I would not drill out the stock cage cover as it would begin to rust everywhere you drilled holes.

That also might change the stability/drift of the rig too. I have heard rumors that the 520's and 820's ran more stable by shutting off the fan. Not tested on my part and would not but thought i would add that in there anyways.

Regards,
Aaron
KD4GSL

--- In TS-520_820_530_830@yahoogroups.com, "wb4mnk@..." <wb4mnk@...> wrote:
>
> I am interested in any ideas about cooling the TS-830S more efficiently. Has anyone tried a different fan with good results ? I use the TS-830S on digital modes at a lower power up to 30 watts and it seems to run a little hotter than I like. Any ideas and suggestions will be appreciated.
>
> 73,
> Art
>

20732. Re: AT-200 with a TS-830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-01 17:26:18 UTC
From: Thomas
Topic: 20721 Message: 20732

You're right, that's the main difference between the '200 and the '230. I had a '230 and wished I'd never sold it. It was a great little tuner.

73,

Tom WB9RXJ

--- In TS-520_820_530_830@yahoogroups.com, "Dave Gmail" <ve3wej@...> wrote:
>
> i think the 230 has warc, the 200 does NOT
>
>
> connection wise, you would have to check the manuals..(imagine that) . or
> wait for someone else to answer this part
>
>
>
>
> ----- Original Message -----
> From: "chh192002" <chh192002@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Tuesday, March 31, 2009 6:28 PM
> Subject: [TS-520_820_530_830] AT-200 with a TS-830
>
>
> > Does the AT-200 work with the TS-830? What are the differences between
> > the 200 and the 230 designated for the 830?
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
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> >
>

20733. Source for REMOTE plug

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-01 17:01:53 UTC
From: Jim
Topic: 20733 Message: 20733

Just got a ts-820 and want to start using it with my Ameritron AL-811H. Looks like I should be able to use the remote socket on the back of the radio. However, I don't seem to find a source for the male plug for the remote socket. Does anyone know of a source or substitute part for this?

The Ameritron is "open normally" on receive so looks like I should use pin 5 for the tip of the RCA plug.. and would it be pin 4 for ground?

From the manual and it shows the pin-out diagram of the remote socket with pin 1 being the one just to the right of the socket-notch. But is that orientation looking at the back of the radio or from the solder-pins on inside of the radio?

Thanks

20734. Re: cooling

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-01 17:18:39 UTC
From: chh192002
Topic: 20730 Message: 20734

I too, have a TS-830, which I run on SSB mostly wide open (full power ~100W) and I notice much less heating than I expected. My interpretation of this is that the original designers are smarter than I and "...if it ain't broke, don't fix it...". Therefore, until someone smarter than me has a definative reason to site, I will trust the original designers of the legandary Kenwood line (after all isn't this the reason "we" bought Kenwoods, even hybrids). I am not trying to pick a fight just voicing my thoughts, we still have freedom of expression left in this country the last time I checked.

Respectfully,

Chris...
W2ALQ

--- In TS-520_820_530_830@...m, "Aaron" <wm.aaron.lamb@...> wrote:
>
> Well, I have not tried this on a Hybrid but I will share info about cooling that is applicable from building lots of high performance computers.
>
> You can add a fan with a higher CFM but it will most likely generate more noise. Also with the higher CFM and the current venting you will generate a higher, more negative air pressure thus acting like a vacuum cleaner. This will generate more noise too but it will also cause more dust to accumulate which in turn will cause more heat. Usually when I build a hotrod PC I try to have more air going in than going out for a positive air pressure. This keeps everything cool and lowers the dust buildup...also less fan/air noise.
>
> You might look at it like putting on larger carburetor jets, with a higher flow intake and not changing the exhaust on a motor.
>
> Now your best bet maybe to get some perforated grate metal and form a new final cage cover. This would allow more cooler air to come in without upping the CFM of the fan.
> **I would not drill out the stock cage cover as it would begin to rust everywhere you drilled holes.**
>
> That also might change the stability/drift of the rig too. I have heard rumors that the 520's and 820's ran more stable by shutting off the fan. Not tested on my part and would not but thought i would add that in there anyways.
>
> Regards,
> Aaron
> KD4GSL
>
> --- In TS-520_820_530_830@yahoogroups.com, "wb4mnk@" <wb4mnk@> wrote:
> >
> > I am interested in any ideas about cooling the TS-830S more efficiently. Has anyone tried a different fan with good results ? I use the TS-830S on digital modes at a lower power up to 30 watts and it seems to run a little hotter than I like. Any ideas and

suggestions will be appreciated.
> >
> > 73,
> > Art
> >
>

20735. Re: [TS-520_820_530_830] Re: cooling

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-01 17:52:18 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20730 Message: 20735

On Wed, 2009-04-01 at 17:18 +0000, chh192002 wrote:
> I too, have a TS-830, which I run on SSB mostly wide open (full power
> ~100W) and I notice much less heating than I expected. My

I use my TS-520 for PSK31 running about 10W for licensing reasons (limit is 10W measured at the antenna end of the feeder), and it doesn't seem to get any hotter than when it's in receive, even on long overs.

I wonder how much of this "valve PAs aren't suitable for digital" is real and how much is "received wisdom"...

Gordon

20736. Re: [TS-520_820_530_830] Source for REMOTE plug

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-01 18:34:02 UTC
From: N6WK
Topic: 20733 Message: 20736

Hi Jim,
Radio Daze has them. Look for *PLG-8-P1 also, they have the Covers for them as well.
I just received two of the plugs with covers. Very Nice!
*http://www.radiodaze.com/

73,
Gordon
N6WK

Jim wrote:
>
> Just got a ts-820 and want to start using it with my Ameritron
> AL-811H. Looks like I should be able to use the remote socket on the
> back of the radio. However, I don't seem to find a source for the male
> plug for the remote socket. Does anyone know of a source or substitute
> part for this?
>
> The Ameritron is "open normally" on receive so looks like I should use
> pin 5 for the tip of the RCA plug.. and would it be pin 4 for ground?
>
> >From the manual and it shows the pin-out diagram of the remote socket
> with pin 1 being the one just to the right of the socket-notch. But is
> that orientation looking at the back of the radio or from the
> solder-pins on inside of the radio?
>
> Thanks
>
>

20737. Re: [TS-520_820_530_830] Source for REMOTE plug

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-01 19:07:29 UTC
From: probe
Topic: 20733 Message: 20737

One fix is to just break off the base of an old 6146b tube. The pins fit the socket exactly. Then just wire it up as required. This is a bailing wire work around but does work.
To verify orientation just check with your multimeter. Pin 1 and 4 should be ground and pin 8 no connection.
Steve B.

----- Original Message -----
From: Jim
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, April 01, 2009 9:01 AM
Subject: [TS-520_820_530_830] Source for REMOTE plug

Just got a ts-820 and want to start using it with my Ameritron AL-811H. Looks like I should be able to use the remote socket on the back of the radio. However, I don't seem to find a source for the male plug for the remote socket. Does anyone know of a source or substitute part for this?

The Ameritron is "open normally" on receive so looks like I should use pin 5 for the tip of the RCA plug.. and would it be pin 4 for ground?

From the manual and it shows the pin-out diagram of the remote socket with pin 1 being the one just to the right of the socket-notch. But is that orientation looking at the back of the radio or from the solder-pins on inside of the radio?

Thanks

[Non-text portions of this message have been removed]

20738. Re: Source for REMOTE plug

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-01 19:46:09 UTC
From: w5rkl
Topic: 20733 Message: 20738

Looking at the rear 8 pin socket, notice the notch. The pin to the lower "right" is pin 1. You can also fine the pin numbers by looking at the 8 pin octal socket from inside the rear panel. The pin numbers are printed on the "wiring" side of the 8 pin socket. You will need a flash light and a magnifying glass to see the numbers.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "probe" <probeusr@...> wrote:
>
> One fix is to just break off the base of an old 6146b tube. The pins fit the socket exactly. Then just wire it up as required. This is a bailing wire work around but does work.
> To verify orientation just check with your multimeter. Pin 1 and 4 should be ground and pin 8 no connection.
> Steve B.
>
> ----- Original Message -----
> From: Jim
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, April 01, 2009 9:01 AM
> Subject: [TS-520_820_530_830] Source for REMOTE plug
>
>
> Just got a ts-820 and want to start using it with my Ameritron AL-811H. Looks like I should be able to use the remote socket on the back of the radio. However, I don't seem to find a source for the male plug for the remote socket. Does anyone know of a source or substitute part for this?
>
> The Ameritron is "open normally" on receive so looks like I should use pin 5 for the tip of the RCA plug.. and would it be pin 4 for ground?
>
> From the manual and it shows the pin-out diagram of the remote socket with pin 1 being the one just to the right of the socket-notch. But is that orientation looking at the back of the radio or from the solder-pins on inside of the radio?
>
> Thanks
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

20739. Re: cooling

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-01 20:15:16 UTC
From: w5rkl
Topic: 20730 Message: 20739

The cooling fan is NOT designed to keep the final's "cold" but to move heated air out of the final cage. If the final amplifier cage, components, including the driver and final tubes, are coated with dust, it doesn't matter how strong the fan it, the dust will act like a blanket and hold heat "in". Clean the final cage and fan as part of your normal scheduled maintenance. There is no need to add additional cooling to the hybrid final cage, the factory fan, as long as it is kept clean and lubricated, will do just fine. Excessive heating in the final can be reduced by stop pushing the final amplifier too hard (running max power output on every transmission)! Those few extra watts one may be squeezing out by pushing the daylights out of the final will only shorten the life of the final tubes and produce distortion and splatter, nothing more. The distant end will not even notice a difference in your signal strength if you are running 90 watts output or 110 watts output.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce MM3YEQ <gordon@...> wrote:
>
> On Wed, 2009-04-01 at 17:18 +0000, chh192002 wrote:
> > I too, have a TS-830, which I run on SSB mostly wide open (full power
> > ~100W) and I notice much less heating than I expected. My
>
> I use my TS-520 for PSK31 running about 10W for licensing reasons (limit
> is 10W measured at the antenna end of the feeder), and it doesn't seem
> to get any hotter than when it's in receive, even on long overs.
>
> I wonder how much of this "valve PAs aren't suitable for digital" is
> real and how much is "received wisdom"...
>
> Gordon
>

20740. Re: [TS-520_820_530_830] Re: cooling

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-01 20:20:10 UTC
From: Art
Topic: 20730 Message: 20740

Hi Aaron,

Thank you for your interesting comments. You have give me some great ideas that I can try.

73,
Art

Aaron wrote:
>
> Well, I have not tried this on a Hybrid but I will share info about
> cooling that is applicable from building lots of high performance
> computers.
>
> You can add a fan with a higher CFM but it will most likely generate
> more noise. Also with the higher CFM and the current venting you will
> generate a higher, more negative air pressure thus acting like a
> vacuum cleaner. This will generate more noise too but it will also
> cause more dust to accumulate which in turn will cause more heat.
> Usually when I build a hotrod PC I try to have more air going in than
> going out for a positive air pressure. This keeps everything cool and
> lowers the dust buildup...also less fan/air noise.
>
> You might look at it like putting on larger carburetor jets, with a
> higher flow intake and not changing the exhaust on a motor.
>
> Now your best bet maybe to get some perforated grate metal and form a
> new final cage cover. This would allow more cooler air to come in
> without upping the CFM of the fan.
> **I would not drill out the stock cage cover as it would begin to rust
> everywhere you drilled holes.**
>
> That also might change the stability/drift of the rig too. I have
> heard rumors that the 520's and 820's ran more stable by shutting off
> the fan. Not tested on my part and would not but thought i would add
> that in there anyways.
>
> Regards,
> Aaron
> KD4GSL
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "wb4mnk@..."
> <wb4mnk@...> wrote:
> >
> > I am interested in any ideas about cooling the TS-830S more

> efficiently. Has anyone tried a different fan with good results ? I
> use the TS-830S on digital modes at a lower power up to 30 watts and
> it seems to run a little hotter than I like. Any ideas and suggestions
> will be appreciated.
> >
> > 73,
> > Art
> >
>
>

20741. Re: [TS-520_820_530_830] Re: cooling

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-01 20:21:49 UTC
From: Art
Topic: 20730 Message: 20741

Hi Chris,

Good point.

73,
Art

chh192002 wrote:
>
> I too, have a TS-830, which I run on SSB mostly wide open (full power
> ~100W) and I notice much less heating than I expected. My
> interpretation of this is that the original designers are smarter than
> I and "...if it ain't broke, don't fix it...". Therefore, until
> someone smarter than me has a definative reason to site, I will trust
> the original designers of the legandary Kenwood line (after all isn't
> this the reason "we" bought Kenwoods, even hybrids). I am not trying
> to pick a fight just voicing my thoughts, we still have freedom of
> expression left in this country the last time I checked.
>
> Respectfully,
>
> Chris...
> W2ALQ
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Aaron"
> <wm.aaron.lamb@...> wrote:
> >
> > Well, I have not tried this on a Hybrid but I will share info about
> cooling that is applicable from building lots of high performance
> computers.
> >
> > You can add a fan with a higher CFM but it will most likely generate
> more noise. Also with the higher CFM and the current venting you will
> generate a higher, more negative air pressure thus acting like a
> vacuum cleaner. This will generate more noise too but it will also
> cause more dust to accumulate which in turn will cause more heat.
> Usually when I build a hotrod PC I try to have more air going in than
> going out for a positive air pressure. This keeps everything cool and
> lowers the dust buildup...also less fan/air noise.
> >
> > You might look at it like putting on larger carburetor jets, with a
> higher flow intake and not changing the exhaust on a motor.
> >
> > Now your best bet maybe to get some perforated grate metal and form
> a new final cage cover. This would allow more cooler air to come in

> without upping the CFM of the fan.
> > **I would not drill out the stock cage cover as it would begin to
> rust everywhere you drilled holes.**
> >
> > That also might change the stability/drift of the rig too. I have
> heard rumors that the 520's and 820's ran more stable by shutting off
> the fan. Not tested on my part and would not but thought i would add
> that in there anyways.
> >
> > Regards,
> > Aaron
> > KD4GSL
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "wb4mnk@" <wb4mnk@> wrote:
> > >
> > > I am interested in any ideas about cooling the TS-830S more
> efficiently. Has anyone tried a different fan with good results ? I
> use the TS-830S on digital modes at a lower power up to 30 watts and
> it seems to run a little hotter than I like. Any ideas and suggestions
> will be appreciated.
> > >
> > > 73,
> > > Art
> > >
> >
>
>

20742. Re: ts-830s final tube replacement

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-01 20:32:04 UTC
From: james27613
Topic: 20720 Message: 20742

Hi,

You may find the HV electrolytic(s) need
replacement.

http://www.k4eaa.com/parts.htm

also good idea to try a new driver tube
before you replace the finals, keep the tube
for another radio where it may work fine.

73 james ke4drn

> upon further testing I'm finding the hv to be a little low,,
> I'm only getting about 700 volts,,maybe I jumped on the
> "tubes gotta be bad" wagon too soon?

20743. Re: TS-530s final choke

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-01 20:33:21 UTC
From: james27613
Topic: 20710 Message: 20743

Hi Phil,

http://www.k4eaa.com/parts.htm

Ken K4eaa has the choke kit.

73 james ke4drn

20744. Re: [TS-520_820_530_830] Re: cooling

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-01 20:38:16 UTC
From: Art
Topic: 20730 Message: 20744

Hi Mike,

I fulling understand but I was concerned about digital modes mainly during contesting. I never push my 830 at all and I guess that is one of the reasons it has given me such great service. My 830 seems to run warmer to the touch under these conditions than during SSB which makes sense but would like to keep it a little cooler. Thank you for your valid points.

73,
Art

w5rkl wrote:
>
> The cooling fan is NOT designed to keep the final's "cold" but to move
> heated air out of the final cage. If the final amplifier cage,
> components, including the driver and final tubes, are coated with
> dust, it doesn't matter how strong the fan it, the dust will act like
> a blanket and hold heat "in". Clean the final cage and fan as part of
> your normal scheduled maintenance. There is no need to add additional
> cooling to the hybrid final cage, the factory fan, as long as it is
> kept clean and lubricated, will do just fine. Excessive heating in the
> final can be reduced by stop pushing the final amplifier too hard
> (running max power output on every transmission)! Those few extra
> watts one may be squeezing out by pushing the daylights out of the
> final will only shorten the life of the final tubes and produce
> distortion and splatter, nothing more. The distant end will not even
> notice a difference in your signal strength if you are running 90
> watts output or 110 watts output.
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, Gordon JC Pearce MM3YEQ
> <gordon@...> wrote:
> >
> > On Wed, 2009-04-01 at 17:18 +0000, chh192002 wrote:
> > > I too, have a TS-830, which I run on SSB mostly wide open (full power
> > > ~100W) and I notice much less heating than I expected. My
> >
> > I use my TS-520 for PSK31 running about 10W for licensing reasons (limit
> > is 10W measured at the antenna end of the feeder), and it doesn't seem
> > to get any hotter than when it's in receive, even on long overs.
> >

> > I wonder how much of this "valve PAs aren't suitable for digital" is
> > real and how much is "received wisdom"...
> >
> > Gordon
> >
>
>

20745. Wire Cut to PLL board on TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-01 23:03:00 UTC
From: Gordon
Topic: 20745 Message: 20745

This is the second TS-830S that I have worked on in the last 2 weeks that has a wire cut going to the PLL board.
The wire is on Connector #2 and it is the #2 wire. It goes to the Counter unit connector 2 pin 9.
When this wire is cut, the display and bands are DEAD for 160, 17 meters and the bottom of 10 meters. Neither radio had a FIX crystal installed, but I wonder if this was some sort of CB Mod. Anyone have any clues WHY someone would cut this wire? The one I have now, the cut wire was wired to two of the unused portions of the FIX switch so you could open or close the circuit. very Strange.....

Gordon
N6WK

20746. A new to me TS-520s does not power up

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-01 22:49:19 UTC
From: Christopher Maness
Topic: 20746 Message: 20746

Hey guys. I have a TS-520s that is not firing up when the switch is turned on. I wired a new jones connector for it, and did check that I was getting power on the right leads (3 and 6, with 9 and 8, 7 and 10 jumpered per the manual). It also has the correct pin jumpered for the external VFO. Any suggestions?

Chris KQ6UP

20747. Re: [TS-520_820_530_830] A new to me TS-520s does not power up

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-01 23:13:29 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20746 Message: 20747

On Wed, 2009-04-01 at 22:49 +0000, Christopher Maness wrote:
> Hey guys. I have a TS-520s that is not firing up when the switch is
> turned on. I wired a new jones connector for it, and did check that I
> was getting power on the right leads (3 and 6, with 9 and 8, 7 and 10
> jumpered per the manual). It also has the correct pin jumpered for
> the external VFO. Any suggestions?

When you plug in and switch on, what exactly *does* happen? Anything?
Nothing?

Gordon

20748. FS: TS-520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-01 23:19:28 UTC
From: Aaron
Topic: 20748 Message: 20748

Ok before I get jumped... its not my only Hybrid but it is my nicest one. It is near perfect and I need to sell it to purchase a new primary rig. I still will probably regret this and thought I would post it here before it goes to QTH then Ebay.

Asking $400 + Shipping for the following items.
Mint!!! Almost a 10, TS-520S with the original manual and box.
Perfect condition MC-50 Microphone
Extra set of brand new tubes ((2)JAN/GE 6146W & (1)GE 12BY7A)
2 Extra Meter Bulbs
2 Extra Feet
PayPal OK

PIC HERE: http://groups.yahoo.com/group/TS-520_820_530_830/photos/album/1267094731/pic/741451665/view?picmode=large&mode=tn&order=ordinal&start=1&dir=asc

Aaron KD4GSL

20749. Re: [TS-520_820_530_830] A new to me TS-520s does not power up

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-01 23:16:03 UTC
From: Christopher Maness
Topic: 20746 Message: 20749

Gordon JC Pearce MM3YEQ wrote:
> On Wed, 2009-04-01 at 22:49 +0000, Christopher Maness wrote:
>
>> Hey guys. I have a TS-520s that is not firing up when the switch is
>> turned on. I wired a new jones connector for it, and did check that I
>> was getting power on the right leads (3 and 6, with 9 and 8, 7 and 10
>> jumpered per the manual). It also has the correct pin jumpered for
>> the external VFO. Any suggestions?
>>
>
> When you plug in and switch on, what exactly *does* happen? Anything?
> Nothing?
>
> Gordon
Absolutely nothing. No LEDs, no power.

Chris KQ6UP

20750. Re: [TS-520_820_530_830] A new to me TS-520s does not power up

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-01 23:33:56 UTC
From: Christopher Maness
Topic: 20746 Message: 20750

Gordon JC Pearce MM3YEQ wrote:
> On Wed, 2009-04-01 at 22:49 +0000, Christopher Maness wrote:
>
>> Hey guys. I have a TS-520s that is not firing up when the switch is
>> turned on. I wired a new jones connector for it, and did check that I
>> was getting power on the right leads (3 and 6, with 9 and 8, 7 and 10
>> jumpered per the manual). It also has the correct pin jumpered for
>> the external VFO. Any suggestions?
>>
>
> When you plug in and switch on, what exactly *does* happen? Anything?
> Nothing?
>
> Gordon
The Kenwood numbers are different than the Jones plug numbering. They
are a mirror image of each other.

I will re-wire and try again.

Chris KQ6UP

20751. Re: FS: TS-520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-02 00:44:34 UTC
From: chh192002
Topic: 20748 Message: 20751

Hi Aaron, yes, it is a tough choice but I respect your need to sell it, the price is fair and the OEM packaging makes it even greater. Good luck with your sale< I hope you can sell it here. 73, Chris W2ALQ.

--- In TS-520_820_530_830@yahoogroups.com, "Aaron" <wm.aaron.lamb@...> wrote:
>
> Ok before I get jumped... its not my only Hybrid but it is my nicest one. It is near perfect and I need to sell it to purchase a new primary rig. I still will probably regret this and thought I would post it here before it goes to QTH then Ebay.
>
> Asking $400 + Shipping for the following items.
> Mint!!! Almost a 10, TS-520S with the original manual and box.
> Perfect condition MC-50 Microphone
> Extra set of brand new tubes ((2)JAN/GE 6146W & (1)GE 12BY7A)
> 2 Extra Meter Bulbs
> 2 Extra Feet
> PayPal OK
>
> PIC HERE: http://groups.yahoo.com/group/TS-520_820_530_830/photos/album/1267094731/pic/741451665/view?picmode=large&mode=tn&order=ordinal&start=1&dir=asc
>
> Aaron KD4GSL
>

20752. Yea, it works. Was: A new to me TS-520s does not power up

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-02 01:06:33 UTC
From: Christopher Maness
Topic: 20746 Message: 20752

Gordon JC Pearce MM3YEQ wrote:
> On Wed, 2009-04-01 at 22:49 +0000, Christopher Maness wrote:
>
>> Hey guys. I have a TS-520s that is not firing up when the switch is
>> turned on. I wired a new jones connector for it, and did check that I
>> was getting power on the right leads (3 and 6, with 9 and 8, 7 and 10
>> jumpered per the manual). It also has the correct pin jumpered for
>> the external VFO. Any suggestions?
>>
>
> When you plug in and switch on, what exactly *does* happen? Anything?
> Nothing?
>
> Gordon
OK, now it is working FB. I just had a CW QSO on 40m. Looks like it
needs an alignment though. CW is heard on both sides of the carrier at
almost equal magnitudes, so I suppose that it is sorely out of
alignment. Also, only able to get 15W out on CW. The mic I tried
provided T/R switching, but no modulation. Might be the
wiring/element. I also have an astatic D-104. Would this be a good mic
for it? However, I do not know the color code for the wires, and it has
no connector.

Thanks,
Chris KQ6UP

20753. Re: TS-530s final choke

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-02 01:48:01 UTC
From: Bob Mansker
Topic: 20710 Message: 20753

Hi,
I have a nice one, includes the final cap connectors also...
You can email me at..... bmaintz@...
Thanks,
Bob
73s
****

--- In TS-520_820_530_830@yahoogroups.com, "k2pjw" <k2pjw@...> wrote:
>
> Hi,
> I am trying to revive an ailing ts-530s that I recently purchased. I'm having a hard time locating a repacement final choke, part no. L-33-0635-05. Does anyone have a source for these? Thanks in advance & Best 73, Phil
>

20754. Re: A new to me TS-520s does not power up

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-02 01:59:09 UTC
From: james27613
Topic: 20746 Message: 20754

Hi,

Chris is correct, US Molex is mirror
image of Japan connector.

in the files section of this group

TS-520_Molex.pdf

73 james ke4drn

20755. Re: FS: TS-520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-02 04:12:51 UTC
From: Aaron
Topic: 20748 Message: 20755

Thanks,
I was hoping someone from this group might pick it up first. This is one that should be kept in the family if possible.

Aaron
KD4GSL
--- In TS-520_820_530_830@yahoogroups.com, "chh192002" <chh192002@...> wrote:
>
> Hi Aaron, yes, it is a tough choice but I respect your need to sell it, the price is fair and the OEM packaging makes it even greater. Good luck with your sale< I hope you can sell it here. 73, Chris W2ALQ.
>
> --- In TS-520_820_530_830@yahoogroups.com, "Aaron" <wm.aaron.lamb@> wrote:
> >
> > Ok before I get jumped... its not my only Hybrid but it is my nicest one. It is near perfect and I need to sell it to purchase a new primary rig. I still will probably regret this and thought I would post it here before it goes to QTH then Ebay.
> >
> > Asking $400 + Shipping for the following items.
> > Mint!!! Almost a 10, TS-520S with the original manual and box.
> > Perfect condition MC-50 Microphone
> > Extra set of brand new tubes ((2)JAN/GE 6146W & (1)GE 12BY7A)
> > 2 Extra Meter Bulbs
> > 2 Extra Feet
> > PayPal OK
> >
> > PIC HERE: http://groups.yahoo.com/group/TS-520_820_530_830/photos/album/1267094731/pic/741451665/view?picmode=large&mode=tn&order=ordinal&start=1&dir=asc
> >
> > Aaron KD4GSL
> >
>

20756. 520SE Meter window

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-02 04:29:53 UTC
From: sv0xbq
Topic: 20756 Message: 20756

Hi Everyone,

Has anyone got a spare plastic window that fits over the meter and frequency dial on a TS-520SE ? Mines been damaged in transit.

Chris SV0XBQ

20757. Strange issue with the carrier controll

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-02 03:45:31 UTC
From: Christopher Maness
Topic: 20746 Message: 20757

When I am adjusting the carrier knob, it does not give me a carrier in the TUNE position unless I turn it all the way down. That ends up giving me about 50W on CW. When I had the carrier turned up, I was getting 15W on CW, and nothing on SSB (but that could be the mic because the radio is new to me). This seems backwards to what is supposed to happen.

Thanks,
Chris KQ6UP

20758. Re: cooling

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-02 09:33:09 UTC
From: Andrew
Topic: 20730 Message: 20758

--- In TS-520_820_530_830@yahoogroups.com, "wb4mnk@..." <wb4mnk@...> wrote:
>
> I am interested in any ideas about cooling the TS-830S more efficiently. Has anyone tried a different fan with good results ? I use the TS-830S on digital modes at a lower power up to 30 watts and it seems to run a little hotter than I like. Any ideas and suggestions will be appreciated.
>
> 73,
> Art

Whats "a little hotter than I would like?" - traditionally, "if its too hot to touch, its too hot." (this idea has been resurrected in PC's, which , according to computer types, can run at blistering temperatures with no problems, at least during the warranty period.)

But seriously - if its more than comfortably warm, then
1.Clean/lubricate the cooling fan - easy to remove, 4 screws and a connector.
2.Remove the finals cover, use compressed air and blow out all the dust - if you haven't done these for a while, you will be amazed how much crap is in there -
3.Check your PA idling bias, not sure if its different from other Kenwoods, but 60ma rings a bell.
4.Is it well ventilated? - ie, its not at the bottom of a stack of other gear, piles of magazines etc on it - are all the ventilation slots clear and clean. (This includes the logbook slid under it) ...
And give us some before/after feedback - most modern DMM's, even the cheap ones, come with a temperature probe..

73 de VK3BFA Andrew.

20759. Re: [TS-520_820_530_830] Re: cooling

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-02 14:05:08 UTC
From: Art
Topic: 20730 Message: 20759

Hi Andrew,

This 830 is super clean in side and out. Fan has been oiled. We take care of our equipment on a regular basis. Nothing obstructing ventilation. Just looking for ideas to improve the cooling efficiency of the final compartment during more demanding modes. As far as temperture I have no way to check but to the touch it will approach the area of hot but still can leave your hand on the fan cover. Thank you Andrew for the suggestions.

73,
Art

Andrew wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "wb4mnk@..."
> <wb4mnk@...> wrote:
> >
> > I am interested in any ideas about cooling the TS-830S more
> efficiently. Has anyone tried a different fan with good results ? I
> use the TS-830S on digital modes at a lower power up to 30 watts and
> it seems to run a little hotter than I like. Any ideas and suggestions
> will be appreciated.
> >
> > 73,
> > Art
>
> Whats "a little hotter than I would like?" - traditionally, "if its
> too hot to touch, its too hot." (this idea has been resurrected in
> PC's, which , according to computer types, can run at blistering
> temperatures with no problems, at least during the warranty period.)
>
> But seriously - if its more than comfortably warm, then
> 1.Clean/lubricate the cooling fan - easy to remove, 4 screws and a
> connector.
> 2.Remove the finals cover, use compressed air and blow out all the
> dust - if you haven't done these for a while, you will be amazed how
> much crap is in there -
> 3.Check your PA idling bias, not sure if its different from other
> Kenwoods, but 60ma rings a bell.
> 4.Is it well ventilated? - ie, its not at the bottom of a stack of
> other gear, piles of magazines etc on it - are all the ventilation
> slots clear and clean. (This includes the logbook slid under it) ...
> And give us some before/after feedback - most modern DMM's, even the
> cheap ones, come with a temperature probe..

>
> 73 de VK3BFA Andrew.
>
>

20760. Re: cooling

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-02 14:22:43 UTC
From: w5rkl
Topic: 20730 Message: 20760

Art,

"ideas to improve the cooling efficiency of the final compartment during more demanding modes."

PSK, RTTY, and SSTV (MSSTV or EASYPAL) are typical digital modes used on the ham bands today. Each of these modes operates at "100% duty cycle" which produces RF output 100% of the time the transmitter is sending data or digital tones which produces more heat.

Keeping the power output low, transmission times short, and receive times longer will help reduce excessive heating in the finals. The final amplifier will still become warm when operating these modes. Adding additional fans or a bigger fan will not stop the final from heating, it will simply move more air.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Art <wb4mnk@...> wrote:
>
> Hi Andrew,
>
> This 830 is super clean in side and out. Fan has been oiled. We take
> care of our equipment on a regular basis. Nothing obstructing
> ventilation. Just looking for ideas to improve the cooling efficiency of
> the final compartment during more demanding modes. As far as temperture
> I have no way to check but to the touch it will approach the area of hot
> but still can leave your hand on the fan cover. Thank you Andrew for the
> suggestions.
>
> 73,
> Art
>
> Andrew wrote:
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "wb4mnk@"
> > <wb4mnk@> wrote:
> > >
> > > I am interested in any ideas about cooling the TS-830S more
> > efficiently. Has anyone tried a different fan with good results ? I
> > use the TS-830S on digital modes at a lower power up to 30 watts and
> > it seems to run a little hotter than I like. Any ideas and suggestions
> > will be appreciated.
> > >
> > > 73,

> > > Art
> >
> > Whats "a little hotter than I would like?" - traditionally, "if its
> > too hot to touch, its too hot." (this idea has been resurrected in
> > PC's, which , according to computer types, can run at blistering
> > temperatures with no problems, at least during the warranty period.)
> >
> > But seriously - if its more than comfortably warm, then
> > 1.Clean/lubricate the cooling fan - easy to remove, 4 screws and a
> > connector.
> > 2.Remove the finals cover, use compressed air and blow out all the
> > dust - if you haven't done these for a while, you will be amazed how
> > much crap is in there -
> > 3.Check your PA idling bias, not sure if its different from other
> > Kenwoods, but 60ma rings a bell.
> > 4.Is it well ventilated? - ie, its not at the bottom of a stack of
> > other gear, piles of magazines etc on it - are all the ventilation
> > slots clear and clean. (This includes the logbook slid under it) ...
> > And give us some before/after feedback - most modern DMM's, even the
> > cheap ones, come with a temperature probe..
> >
> > 73 de VK3BFA Andrew.
> >
> >
>

20761. Re: 520SE Meter window

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-02 15:37:03 UTC
From: Bob Mansker
Topic: 20756 Message: 20761

I am sure I have a nice one that is not scratched...
You can email...
bmaintz@...
Thanks,
Bob
73s
****

--- In TS-520_820_530_830@yahoogroups.com, "sv0xbq" <alexandchrisp@...> wrote:
>
> Hi Everyone,
>
> Has anyone got a spare plastic window that fits over the meter and frequency dial on a TS-520SE ? Mines been damaged in transit.
>
> Chris SV0XBQ
>

20762. Re: [TS-520_820_530_830] Re: cooling

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-02 15:57:27 UTC
From: Art
Topic: 20730 Message: 20762

Hi Mike,

Thanks for the interesting input. I understand that extra air will not keep the final from heating but I would think more cool air would keep the components cooler. I never really though of it the way you explained it. Interesting.

73,
Art

w5rkl wrote:
>
> Art,
>
> "ideas to improve the cooling efficiency of the final compartment
> during more demanding modes."
>
> PSK, RTTY, and SSTV (MSSTV or EASYPAL) are typical digital modes used
> on the ham bands today. Each of these modes operates at "100% duty
> cycle" which produces RF output 100% of the time the transmitter is
> sending data or digital tones which produces more heat.
>
> Keeping the power output low, transmission times short, and receive
> times longer will help reduce excessive heating in the finals. The
> final amplifier will still become warm when operating these modes.
> Adding additional fans or a bigger fan will not stop the final from
> heating, it will simply move more air.
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, Art <wb4mnk@...> wrote:
> >
> > Hi Andrew,
> >
> > This 830 is super clean in side and out. Fan has been oiled. We take
> > care of our equipment on a regular basis. Nothing obstructing
> > ventilation. Just looking for ideas to improve the cooling
> efficiency of
> > the final compartment during more demanding modes. As far as temperture
> > I have no way to check but to the touch it will approach the area of
> hot
> > but still can leave your hand on the fan cover. Thank you Andrew for
> the

> > suggestions.
> >
> > 73,
> > Art
> >
> > Andrew wrote:
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > > <mailto:TS-520_820_530_830%40yahoogroups.com>, "wb4mnk@"
> > > <wb4mnk@> wrote:
> > > >
> > > > I am interested in any ideas about cooling the TS-830S more
> > > efficiently. Has anyone tried a different fan with good results ? I
> > > use the TS-830S on digital modes at a lower power up to 30 watts and
> > > it seems to run a little hotter than I like. Any ideas and
> suggestions
> > > will be appreciated.
> > > >
> > > > 73,
> > > > Art
> > >
> > > Whats "a little hotter than I would like?" - traditionally, "if its
> > > too hot to touch, its too hot." (this idea has been resurrected in
> > > PC's, which , according to computer types, can run at blistering
> > > temperatures with no problems, at least during the warranty period.)
> > >
> > > But seriously - if its more than comfortably warm, then
> > > 1.Clean/lubricate the cooling fan - easy to remove, 4 screws and a
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> > > 2.Remove the finals cover, use compressed air and blow out all the
> > > dust - if you haven't done these for a while, you will be amazed how
> > > much crap is in there -
> > > 3.Check your PA idling bias, not sure if its different from other
> > > Kenwoods, but 60ma rings a bell.
> > > 4.Is it well ventilated? - ie, its not at the bottom of a stack of
> > > other gear, piles of magazines etc on it - are all the ventilation
> > > slots clear and clean. (This includes the logbook slid under it) ...
> > > And give us some before/after feedback - most modern DMM's, even the
> > > cheap ones, come with a temperature probe..
> > >
> > > 73 de VK3BFA Andrew.
> > >
> > >
> >
>
>

20763. Re: Strange issue with the carrier controll

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-02 15:23:28 UTC
From: Christopher Maness
Topic: 20746 Message: 20763

--- In TS-520_820_530_830@yahoogroups.com, Christopher Maness <chris@...> wrote:
>
> When I am adjusting the carrier knob, it does not give me a carrier in
> the TUNE position unless I turn it all the way down. That ends up
> giving me about 50W on CW. When I had the carrier turned up, I was
> getting 15W on CW, and nothing on SSB (but that could be the mic because
> the radio is new to me). This seems backwards to what is supposed to
> happen.
>
> Thanks,
> Chris KQ6UP
>

Here is an update. I can get about 80W on 80m CW. I have made several contacts with the rig on CW. I don't have a mic yet to test SSB. Overall, it is a very "lovable" rig.

It is strange that I get the most power out of the rig with the carrier knob turned down to zero. If I turn it up the carrier, the power quickly rolls off at a setting of one. I am hopping some of you long time aficionados might have seen this before.

Thanks,
Chris KQ6UP

20764. TS-820S DG-1 Mixer Board "glitch"

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-02 17:15:50 UTC
From: jsloss
Topic: 20764 Message: 20764

My digital readout developed an interesting "glitch" yesterday. I've isolated problem to the Mixer board by installing a known good Counter module and then a known good Mixer board - both which corrected the problem. Screws have been tightened, connector contacts cleaned, solder inspected to no avail. Freeze Mist does not restore the board to correct operation.

When tuning from 7120.0 to 7139.9 the readout is correct. At 7120 it jumps to 7160 and tracks correctly but is 20 Kc high.

It does this on any band and throughout the band in use. On several frequencies the "tens "" digit goes blank as fols:

7179.9 reads corrrectly, At 7180 (per analog dial) digital goes to 71_0.0 and tracks correctly to 71_9.4

At 7200.0, readout now reads 7220.0 (it should read 7200.0,) and around we go again!

Would appreciate input from those comfortable with digital stuff

Joe k7mks

[Non-text portions of this message have been removed]

20765. Re: [TS-520_820_530_830] TS-820S DG-1 Mixer Board "glitch"

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-02 17:34:38 UTC
From: jsloss
Topic: 20764 Message: 20765

Per my previous: 2nd paragraph & 2nd sentence. Should read "At 7140....." instead of "At 7120......"

Joe k7mks

[Non-text portions of this message have been removed]

20766. Re: Strange issue with the carrier controll

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-02 17:50:02 UTC
From: chh192002
Topic: 20746 Message: 20766

No, no, no I have seen this on my TS-830. I had to re-read the manual and complete initial settings (such, as turning the mic gain to the "calibrate" position). For me this solved the same problem if this isn't your problem then I did not mean to bother you. Chris, W2ALQ

--- In TS-520_820_530_830@yahoogroups.com, Christopher Maness <chris@...> wrote:
>
> When I am adjusting the carrier knob, it does not give me a carrier in
> the TUNE position unless I turn it all the way down. That ends up
> giving me about 50W on CW. When I had the carrier turned up, I was
> getting 15W on CW, and nothing on SSB (but that could be the mic because
> the radio is new to me). This seems backwards to what is supposed to
> happen.
>
> Thanks,
> Chris KQ6UP
>

20767. Re: Strange issue with the carrier controll

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-02 17:55:42 UTC
From: w5rkl
Topic: 20746 Message: 20767

Place the meter switch in the RF position and the mode switch in either USB or LSB. Connect the radio to a dummy load. Turn the MIC gain completely counter clockwise, minimum MIC gain setting. If your dummy load has a watt meter then that will also work. The idea is to look for RF output WITHOUT modulating the radio in sideband mode.

Place the SEND switch "UP" and the 520 should key. Look at the RF meter. If the RF meter on the 520 or your dummy load watt meter indicates a reading then the carrier null adjustment needs to be done.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Christopher Maness" <chris@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, Christopher Maness <chris@> wrote:
> >
> > When I am adjusting the carrier knob, it does not give me a carrier in
> > the TUNE position unless I turn it all the way down. That ends up
> > giving me about 50W on CW. When I had the carrier turned up, I was
> > getting 15W on CW, and nothing on SSB (but that could be the mic because
> > the radio is new to me). This seems backwards to what is supposed to
> > happen.
> >
> > Thanks,
> > Chris KQ6UP
> >
>
> Here is an update. I can get about 80W on 80m CW. I have made several contacts with the rig on CW. I don't have a mic yet to test SSB. Overall, it is a very "lovable" rig.
>
> It is strange that I get the most power out of the rig with the carrier knob turned down to zero. If I turn it up the carrier, the power quickly rolls off at a setting of one. I am hopping some of you long time aficionados might have seen this before.
>
> Thanks,
> Chris KQ6UP
>

20768. Re: A new to me TS-520s does not power up

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-02 17:57:45 UTC
From: Wim Penders
Topic: 20746 Message: 20768

There are two kinds of Jones connectors and a alike.
Problem is that they have the numbers mirrored on the connector.
This has caused many a Yaesu owner much grief.
So if you finish a power cable, measure twice against the original schematic.

My 2 cents

73, Wim PA0PGA

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce MM3YEQ <gordon@...> wrote:
>
> On Wed, 2009-04-01 at 22:49 +0000, Christopher Maness wrote:
> > Hey guys. I have a TS-520s that is not firing up when the switch is
> > turned on. I wired a new jones connector for it, and did check that I
> > was getting power on the right leads (3 and 6, with 9 and 8, 7 and 10
> > jumpered per the manual). It also has the correct pin jumpered for
> > the external VFO. Any suggestions?
>
> When you plug in and switch on, what exactly *does* happen? Anything?
> Nothing?
>
> Gordon
>

20769. Re: [TS-520_820_530_830] Re: A new to me TS-520s does not power up

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-02 18:11:07 UTC
From: Christopher Maness
Topic: 20746 Message: 20769

Wim Penders wrote:
> There are two kinds of Jones connectors and a alike.
> Problem is that they have the numbers mirrored on the connector.
> This has caused many a Yaesu owner much grief.
> So if you finish a power cable, measure twice against the original schematic.
>
> My 2 cents
>
> 73, Wim PA0PGA

Yea, that was a pain. I was going by the numbers on the Jones plug.
When I took the bottom cover off I noticed that they were a mirror of
what they were supposed to be. The rig is working now. I am trying to
sort out a couple of other issues with the rig now.

Thanks,
Chris KQ6UP

20770. Re: [TS-520_820_530_830] Re: Strange issue with the carrier controll

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-02 18:14:38 UTC
From: Christopher Maness
Topic: 20746 Message: 20770

w5rkl wrote:
> Place the meter switch in the RF position and the mode switch in either USB or LSB. Connect the radio to a dummy load. Turn the MIC gain completely counter clockwise, minimum MIC gain setting. If your dummy load has a watt meter then that will also work. The idea is to look for RF output WITHOUT modulating the radio in sideband mode.
>
> Place the SEND switch "UP" and the 520 should key. Look at the RF meter. If the RF meter on the 520 or your dummy load watt meter indicates a reading then the carrier null adjustment needs to be done.
>
> 73
> Mike
> W5RKL

My Watt meter moves almost imperceptively. Does it need adjustment if it is a tiny, tiny amount? I am also hearing part of the lower passband when in CW mode (receive). I don't hear beats on both sides of the carrier when I am in USB or LSB (this is a good thing).

Chris KQ6UP

20771. Re: [TS-520_820_530_830] Re: Strange issue with the carrier controll

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-02 18:15:58 UTC
From: Christopher Maness
Topic: 20746 Message: 20771

w5rkl wrote:
> Place the meter switch in the RF position and the mode switch in either USB or LSB. Connect the radio to a dummy load. Turn the MIC gain completely counter clockwise, minimum MIC gain setting. If your dummy load has a watt meter then that will also work. The idea is to look for RF output WITHOUT modulating the radio in sideband mode.
>
> Place the SEND switch "UP" and the 520 should key. Look at the RF meter. If the RF meter on the 520 or your dummy load watt meter indicates a reading then the carrier null adjustment needs to be done.
>
> 73
> Mike
> W5RKL
>
>
p.s. Is this connected to the strange behavior of the carrier control
while in TUNE or CW mode?

Chris KQ6UP

20772. Re: Strange issue with the carrier controll

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-02 21:24:09 UTC
From: w5rkl
Topic: 20746 Message: 20772

Hello Chris,

The CAR control varies a positive DC voltage that is applied to the balance modulator (balance modulator is located on the GENERATOR UNIT X52-1090-00) in TUNE and CW mode. The source for the 9VDC originates on the FIX CH AVR Unit (X42-1100-00).

The CAR control is active ONLY in TUNE and CW mode. The CAR control is NOT active in either USB or LSB.

To check and adjust the 9VDC and 3.3VDC, perform the following simple steps:

1. Measure the voltage on the FIX CH AVR Unit's "9" terminal. If necessary, adjust VR1 on the FIX CH AVR Unit for 9VDC +/- .1VDC.

2. Measure the voltage on the RF-1 terminal also on the FIX CH AVR Unit. If necessary, adjust VR3 on the FIX CH AVR Unit for 3.3VDC +/- .1VDC.

Adjust the 9VDC "FIRST" then adjust the 3.3VDC. The above adjustments are found in the TS-520S service manual on page 45 "RECEIVER SECTION" at paragraph "2" titled "SETTING THE 9 VOLT POWER SUPPLY and FET BIAS SUPPLY VOLTAGE". The 9VDC powers not only the VFO, both internal and, if used, external, plus a number of other circuits. The 9VDC flows through the FUNCTION switch AND pins 8 and 9 on the rear 9 pin external VFO socket. Clean the FUNCTION switch with contact cleaner (DeoXit) and ensure the connection at the rear 9 pin VFO socket are clean and secure. Clean the plugs that plug into the rear of the VFO.

The procedures for adjusting the carrier null are contained in the TS-520S service manual on page 50 under the section titled "BALANCE MODULATOR AND CARRIER ADJUSTMENT".

Clean the CAR control with contact cleaner, remove excess contact cleaner with canned air and test for proper operation of the CAR control, correct RF output, and check for carrier in sideband mode.

If you do not have the TS-520S operator and service manuals, you can download them free at the following website:

http://www.n6wk.com/kenwood/

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Christopher Maness <chris@...> wrote:
>
> w5rkl wrote:
> > Place the meter switch in the RF position and the mode switch in either USB or LSB. Connect the radio to a dummy load. Turn the MIC gain completely counter clockwise, minimum MIC gain setting. If your dummy load has a watt meter then that will also work. The idea is to look for RF output WITHOUT modulating the radio in sideband mode.

> >
> > Place the SEND switch "UP" and the 520 should key. Look at the RF meter. If the RF meter on the 520 or your dummy load watt meter indicates a reading then the carrier null adjustment needs to be done.
> >
> > 73
> > Mike
> > W5RKL
> >
> >
> p.s. Is this connected to the strange behavior of the carrier control
> while in TUNE or CW mode?
>
> Chris KQ6UP
>

20773. Re: [TS-520_820_530_830] Re: Strange issue with the carrier controll

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-02 22:18:01 UTC
From: Christopher Maness
Topic: 20746 Message: 20773

w5rkl wrote:
> Hello Chris,
>
> The CAR control varies a positive DC voltage that is applied to the balance modulator (balance modulator is located on the GENERATOR UNIT X52-1090-00) in TUNE and CW mode. The source for the 9VDC originates on the FIX CH AVR Unit (X42-1100-00).
>
> The CAR control is active ONLY in TUNE and CW mode. The CAR control is NOT active in either USB or LSB.
>
> To check and adjust the 9VDC and 3.3VDC, perform the following simple steps:
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> 1. Measure the voltage on the FIX CH AVR Unit's "9" terminal. If necessary, adjust VR1 on the FIX CH AVR Unit for 9VDC +/- .1VDC.
>
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>
> The procedures for adjusting the carrier null are contained in the TS-520S service manual on page 50 under the section titled "BALANCE MODULATOR AND CARRIER ADJUSTMENT".
>
> Clean the CAR control with contact cleaner, remove excess contact cleaner with canned air and test for proper operation of the CAR control, correct RF output, and check for carrier in sideband mode.
>
>
> If you do not have the TS-520S operator and service manuals, you can download them free at the following website:
>
> http://www.n6wk.com/kenwood/
>
> 73
> Mike
> W5RKL
>
>
>

>
Thanks a lot this looks like what I need. Do you think the fact that I initially had the plug wired wrong per the other post that I have made might of had anything to do with this issue, or is it more likely just do to age?

Chris KQ6UP

20774. Re: Strange issue with the carrier controll

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-03 18:05:44 UTC
From: w5rkl
Topic: 20746 Message: 20774

Chris,

I actually can't say whether your wiring of the Jones plug causes the problems or not.

It does appear, however, based on your comments about hearing the CW beat note on both sides of the carrier at equal levels that the CARRIER UNIT may not be properly aligned. Other stages may also be contributing to your problem as well.

An improperly aligned CARRIER UNIT will affect both transmit and receive, including the drive level to the driver and ultimately the final amplifier's output signal level.

In transmit, for example, "IF" the CARRIER UNIT's frequencies are OFF FREQUENCY, the CARRIER UNIT's RF signal will NOT be placed at the proper crystal filter's passband "position" as I call it. If this occurs, the "normal" crystal filter output signal level will be affected (reduced). If the crystal filter's output signal level is reduced below it's normal level, the signal level fed to the driver tube and ultimately to the final amplifier will be "less", hence lower output from the final amplifier!

In receive, for example, "IF" the CARRIER UNIT's frequencies are OFF FREQUENCY, the problem you are experiencing, hearing both sides of the CW carrier beat note, can and will occur! Remember, the CARRIER UNIT provides the "BFO" siganal in receive and it must be on frequency for everything to work properly!

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Christopher Maness <chris@...> wrote:
>
> w5rkl wrote:
> > Hello Chris,
> >
> > The CAR control varies a positive DC voltage that is applied to the balance modulator (balance modulator is located on the GENERATOR UNIT X52-1090-00) in TUNE and CW mode. The source for the 9VDC originates on the FIX CH AVR Unit (X42-1100-00).
> >
> > The CAR control is active ONLY in TUNE and CW mode. The CAR control is NOT active in either USB or LSB.
> >
> > To check and adjust the 9VDC and 3.3VDC, perform the following simple steps:
> >
> > 1. Measure the voltage on the FIX CH AVR Unit's "9" terminal. If necessary, adjust VR1 on the FIX CH AVR Unit for 9VDC +/- .1VDC.
> >
> > 2. Measure the voltage on the RF-1 terminal also on the FIX CH AVR Unit. If necessary, adjust VR3 on the FIX CH AVR Unit for 3.3VDC +/- .1VDC.
> >

> > Adjust the 9VDC "FIRST" then adjust the 3.3VDC. The above adjustments are found in the TS-520S service manual on page 45 "RECEIVER SECTION" at paragraph "2" titled "SETTING THE 9 VOLT POWER SUPPLY and FET BIAS SUPPLY VOLTAGE". The 9VDC powers not only the VFO, both internal and, if used, external, plus a number of other circuits. The 9VDC flows through the FUNCTION switch AND pins 8 and 9 on the rear 9 pin external VFO socket. Clean the FUNCTION switch with contact cleaner (DeoXit) and ensure the connection at the rear 9 pin VFO socket are clean and secure. Clean the plugs that plug into the rear of the VFO.
> >
> > The procedures for adjusting the carrier null are contained in the TS-520S service manual on page 50 under the section titled "BALANCE MODULATOR AND CARRIER ADJUSTMENT".
> >
> > Clean the CAR control with contact cleaner, remove excess contact cleaner with canned air and test for proper operation of the CAR control, correct RF output, and check for carrier in sideband mode.
> >
> >
> > If you do not have the TS-520S operator and service manuals, you can download them free at the following website:
> >
> > http://www.n6wk.com/kenwood/
> >
> > 73
> > Mike
> > W5RKL
> >
> >
> >
> >
> Thanks a lot this looks like what I need. Do you think the fact that I
> initially had the plug wired wrong per the other post that I have made
> might of had anything to do with this issue, or is it more likely just
> do to age?
>
> Chris KQ6UP
>

20775. Filter SSB ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-03 18:08:19 UTC
From: blacklabpupp
Topic: 20775 Message: 20775

Does the SSB filter affect the transmit of the 820? In other words is the filter switched out on transmit and not used. If it is used to limit the bandwidth of the of the audio, is there a better filter than the YG 88s? I think this filter is 2.1k, and sounds funny to my ear. Was there a wider filter made such as a 2.8. Gene

20776. Re: [TS-520_820_530_830] Filter SSB ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-03 19:13:58 UTC
From: Dave Gmail
Topic: 20775 Message: 20776

what does the manual say for accessories????

----- Original Message -----
From: "blacklabpupp" <blacklabpupp@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, April 03, 2009 2:08 PM
Subject: [TS-520_820_530_830] Filter SSB ?

> Does the SSB filter affect the transmit of the 820? In other words is the
> filter switched out on transmit and not used. If it is used to limit the
> bandwidth of the of the audio, is there a better filter than the YG 88s? I
> think this filter is 2.1k, and sounds funny to my ear. Was there a wider
> filter made such as a 2.8. Gene
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

20777. Re: Filter SSB ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-03 19:27:55 UTC
From: w5rkl
Topic: 20775 Message: 20777

Geme.

The filter(s) in the 820 are not "switched out" in transmit.

I recommend checking the Carrier Unit and VCO alignment before spending money on a filter that most likely will not fix your problem.

I found my 820's CAR1 and CAR2 alignment as well as the VCO alignment was off quite a bit. Once I performed the alignment of the CAR ASSY plus the VCO, I noticed a significant improvement in the 820, both in receive and transmit.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "blacklabpupp" <blacklabpupp@...> wrote:
>
> Does the SSB filter affect the transmit of the 820? In other words is the filter switched out on transmit and not used. If it is used to limit the bandwidth of the of the audio, is there a better filter than the YG 88s? I think this filter is 2.1k, and sounds funny to my ear. Was there a wider filter made such as a 2.8. Gene
>

20778. Re: Filter SSB ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-03 19:29:02 UTC
From: w5rkl
Topic: 20775 Message: 20778

Sorry, Gene, I notice I spelled your name with an "M" instead of a "N". I apologize for that.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Geme.
>
> The filter(s) in the 820 are not "switched out" in transmit.
>
> I recommend checking the Carrier Unit and VCO alignment before spending money on a filter that most likely will not fix your problem.
>
> I found my 820's CAR1 and CAR2 alignment as well as the VCO alignment was off quite a bit. Once I performed the alignment of the CAR ASSY plus the VCO, I noticed a significant improvement in the 820, both in receive and transmit.
>
>
> 73
> Mike
> W5RKL
>
>
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "blacklabpupp" <blacklabpupp@> wrote:
> >
> > Does the SSB filter affect the transmit of the 820? In other words is the filter switched out on transmit and not used. If it is used to limit the bandwidth of the of the audio, is there a better filter than the YG 88s? I think this filter is 2.1k, and sounds funny to my ear. Was there a wider filter made such as a 2.8. Gene
> >
>

20779. Re: [TS-520_820_530_830] Re: Filter SSB ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-03 19:42:26 UTC
From: Adrian Ellison
Topic: 20775 Message: 20779

Spotted that too Nike :-)

On Friday 03 April 2009 21:29:02 w5rkl wrote:
> Sorry, Gene, I notice I spelled your name with an "M" instead of a "N". I
> apologize for that.

20780. Soapy circuit boards?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-03 20:44:57 UTC
From: k2pjw
Topic: 20780 Message: 20780

Hello,
Cleaning this ts-530s as best I can. I cannot remove the nicotine stains from the upper circuit boards. I've heard of people soaking circuit boards in soapy water to clean them. Is this true or a legend? If it is true could someone give me the details? I need to clean two boards that are quite sticky. Any other ideas appreciated too. Thanks & 73, Phil k2pjw

20781. Re: Soapy circuit boards?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-03 21:25:26 UTC
From: w5rkl
Topic: 20780 Message: 20781

Phil,

Yes, check the link below.

http://www.k4eaa.com/faq.htm

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "k2pjw" <k2pjw@...> wrote:
>
> Hello,
> Cleaning this ts-530s as best I can. I cannot remove the nicotine stains from the upper circuit boards. I've heard of people soaking circuit boards in soapy water to clean them. Is this true or a legend? If it is true could someone give me the details? I need to clean two boards that are quite sticky. Any other ideas appreciated too. Thanks & 73, Phil k2pjw
>

20782. Re: Soapy circuit boards?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-03 22:19:55 UTC
From: k2pjw
Topic: 20780 Message: 20782

Hi Mike,
Thanks for the link! That picture says it all....I'm still afraid but I'm gonna try it! Boy I love these old Kenwood radios. Best 73, Phil k2pjw

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Phil,
>
> Yes, check the link below.
>
> http://www.k4eaa.com/faq.htm
>
> 73
> Mike
> W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "k2pjw" <k2pjw@> wrote:
> >
> > Hello,
> > Cleaning this ts-530s as best I can. I cannot remove the nicotine stains from the upper circuit boards. I've heard of people soaking circuit boards in soapy water to clean them. Is this true or a legend? If it is true could someone give me the details? I need to clean two boards that are quite sticky. Any other ideas appreciated too. Thanks & 73, Phil k2pjw
> >
>

20783. RE: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's Back!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-03 22:34:15 UTC
From: Tate Antrim
Topic: 20584 Message: 20783

Ok

Got the repair kit from K4EAA and replaced the requisite resistors…that fixed my IP issues now with just a bit over 200mA I get 125W out on 20m. One of the cathode resistors was 27 ohms and the other was 39.

But the issue with delayed output response is still there after the rig warms up. Sometimes not having any output at all or having swings in the output and then after flipping it to send it takes a couple of seconds to respond (in tune or CW).

Ken, K4EAA, suggests that it is RLY1 and yes…tapping on the relay will affect output. So I removed the AF board to determine how difficult it would be to remove the relay and I think someone at some point in time has futzed with my AF board. There are a couple of components on the bottom of the board (an electrolytic and resistor tied together – perhaps that was a service bulletin?) Plus another disc cap and resistor that I don't see on the schematic and it also looks like someone at some point replaced the audio output amp and didn't do a good job of it on the soldering.

So I think I'll just order an AF board from Bob Mansker and pop that in instead of messing around with the current board.

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Tate Antrim
Sent: Wednesday, March 18, 2009 10:24 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: RE: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's Back!

Those will be ordered tomorrow…Mind you…I don't operate the rig continuously at 300mA that was a dead key down on the bench into a dummy load. Usually it is operating sideband.

From: TS-520_820_530_830@yahoogroups.com <mailto:TS-520_820_530_830%40yahoogroups.com> [mailto:TS-520_820_530_830@yahoogroups.com <mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of w5rkl
Sent: Wednesday, March 18, 2009 12:19 PM
To: TS-520_820_530_830@yahoogroups.com <mailto:TS-520_820_530_830%40yahoogroups.com>
Subject: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's Back!

Tate,

I agree with Gordon, replace all 4 of the final tube cathode resistors, R2 thru R5, with new 20 ohm 1/2 watt resistors.

300ma plate current in the final tubes is way too high! Continued operating the 830 at this high current level will not only cause early tube failure but it can easily result in power supply failures which could lead to failures in other components/circuits as well.

At this point and based on your comments about the cathode resistors, I disagree with your idea the problem is the HV supply. Replace all 4 of the cathode resistors then check for

final amplifier stability. Only then if the problem continues would I agree to check the power supply or other areas for the source of the problem.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com <mailto:TS-520_820_530_830%40yahoogroups.com> <mailto:TS-520_820_530_830%40yahoogroups.com> , Gordon JC Pearce MM3YEQ <gordon@...> wrote:
>
> On Wed, 2009-03-18 at 08:29 -0400, Tate Antrim wrote:
>
> <snip>
>
> > At k4EAAâ€™s suggestion Iâ€™m also looking at RL-1 and Iâ€™m going to replace the
> > cathode resistors as there is about 8 ohms to ground instead of 4.5 â€" 5
> > which could explain the amount of current Iâ€™m reading that seems a bit high
> > â€" in fact it would be almost double what is really there. I pulled the PCB
> > in the final cage and inspected each resistor, but 8 ohms would indicate
> > that theyâ€™ve all tended towards high ohms over time.
>
> <snip>
>
> Until you've done that, all bets are off. It's more likely that one of
> the resistors is entirely open, but they could *all* be on the way
> out...
>
> That reading is *definitely* wrong.
>
> Gordon
>

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[Non-text portions of this message have been removed]

20784. Re: TS830S - Strange Behavior - It's Back!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-04 00:03:06 UTC
From: w5rkl
Topic: 20584 Message: 20784

Tate,

The TS-830 service bulletins are available direct from Kenwood's website, free. Click on the following link, scroll down to the Amateur Radio Service Bulletins, click the drop down menu and scroll and click on TS-830S. The service bulletins will show up as links to download after you click on TS-830S.

http://www.kenwoodusa.com/Support/AMA_Radios/#_

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Tate Antrim" <kd8hja@...> wrote:
>
> Ok
>
>
>
> Got the repair kit from K4EAA and replaced the requisite resistorsâ☐¦that fixed my IP issues now with just a bit over 200mA I get 125W out on 20m. One of the cathode resistors was 27 ohms and the other was 39.
>
>
>
> But the issue with delayed output response is still there after the rig warms up. Sometimes not having any output at all or having swings in the output and then after flipping it to send it takes a couple of seconds to respond (in tune or CW).
>
>
>
> Ken, K4EAA, suggests that it is RLY1 and yesâ☐¦tapping on the relay will affect output. So I removed the AF board to determine how difficult it would be to remove the relay and I think someone at some point in time has futzed with my AF board. There are a couple of components on the bottom of the board (an electrolytic and resistor tied together â☐" perhaps that was a service bulletin?) Plus another disc cap and resistor that I donâ☐☐t see on the schematic and it also looks like someone at some point replaced the audio output amp and didnâ☐☐t do a good job of it on the soldering.
>
>
>
> So I think Iâ☐☐ll just order an AF board from Bob Mansker and pop that in instead of messing around with the current board.
>
>
>
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of

Tate Antrim
> Sent: Wednesday, March 18, 2009 10:24 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: RE: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's Back!
>
>
>
> Those will be ordered tomorrowâ□¦Mind youâ□¦I donâ□□t operate the rig continuously at 300mA that was a dead key down on the bench into a dummy load. Usually it is operating sideband.
>
> From: TS-520_820_530_830@yahoogroups.com <mailto:TS-520_820_530_830%40yahoogroups.com> [mailto:TS-520_820_530_830@yahoogroups.com <mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of w5rkl
> Sent: Wednesday, March 18, 2009 12:19 PM
> To: TS-520_820_530_830@yahoogroups.com <mailto:TS-520_820_530_830%40yahoogroups.com>
> Subject: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's Back!
>
> Tate,
>
> I agree with Gordon, replace all 4 of the final tube cathode resistors, R2 thru R5, with new 20 ohm 1/2 watt resistors.
>
> 300ma plate current in the final tubes is way too high! Continued operating the 830 at this high current level will not only cause early tube failure but it can easily result in power supply failures which could lead to failures in other components/circuits as well.
>
> At this point and based on your comments about the cathode resistors, I disagree with your idea the problem is the HV supply. Replace all 4 of the cathode resistors then check for final amplifier stability. Only then if the problem continues would I agree to check the power supply or other areas for the source of the problem.
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com <mailto:TS-520_820_530_830%40yahoogroups.com> <mailto:TS-520_820_530_830%40yahoogroups.com> , Gordon JC Pearce MM3YEQ <gordon@> wrote:
> >
> > On Wed, 2009-03-18 at 08:29 -0400, Tate Antrim wrote:
> >
> > <snip>
> >
> > > At k4EAAÃ¢â□¬â□¢s suggestion IÃ¢â□¬â□¢m also looking at RL-1 and IÃ¢â□¬â□¢m going to replace the
> > > cathode resistors as there is about 8 ohms to ground instead of 4.5 Ã¢â□¬" 5
> > > which could explain the amount of current IÃ¢â□¬â□¢m reading that seems a bit high
> > > Ã¢â□¬" in fact it would be almost double what is really there. I pulled the PCB
> > > in the final cage and inspected each resistor, but 8 ohms would indicate
> > > that theyÃ¢â□¬â□¢ve all tended towards high ohms over time.
> >
> > <snip>
> >
> > Until you've done that, all bets are off. It's more likely that one of

> > the resistors is entirely open, but they could *all* be on the way
> > out...
> >
> > That reading is *definitely* wrong.
> >
> > Gordon
> >
>
> [Non-text portions of this message have been removed]
>
>
>
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>
> [Non-text portions of this message have been removed]
>

20785. Heil HC-5 element

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-04 00:47:29 UTC
From: Michael
Topic: 20785 Message: 20785

I am just being curious on a different Microphone on the TS-520S. Has anybody tried using the Heil HC-5 element on this Radio and if so, Comments or A "No" that it wouldn't be a match at all.

Thanks
ki0gv
Mike

20786. Re: [TS-520_820_530_830] Heil HC-5 element

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-04 00:59:39 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20785 Message: 20786

On Sat, 2009-04-04 at 00:47 +0000, Michael wrote:
> I am just being curious on a different Microphone on the TS-520S. Has
> anybody tried using the Heil HC-5 element on this Radio and if so,
> Comments or A "No" that it wouldn't be a match at all.

The HC-5 is a 2k element, so low-ish impedance compared to the 50k that the TS-520S seems to expect. Still, I don't see any reason for it not to work. It's not low enough to have a serious effect on performance, although you may need to crank the mike gain a bit.

Some sort of preamp would be good, or a matching transformer.

Gordon

20787. Re: [TS-520_820_530_830] Re: Soapy circuit boards?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-04 03:39:09 UTC
From: James Fogg
Topic: 20780 Message: 20787

> Phil,
>
> Yes, check the link below.
>
> http://www.k4eaa.com/faq.htm

Washing boards is pretty common in the vintage computer world. Many vintage computer restorers use a dishwasher and a non-abrasive automatic dishwashing liquid. The choice of "soap" is important because most contain abrasives or large amounts of chlorine. Using a small amount of soap addresses the chlorine problem.

One thing I've always done when washing electronics is to flush the board with lots of isopropyl alcohol (rubbing alcohol, 90%). Isopropyl aggressively bonds with water and will draw it away from components and tight locations (under IC's for example). After you've chased the water away the isopropyl will easily evaporate with a little sunshine or warm air (hairdryer).

Sadly, labels and markings don't always survive such treatment. I wouldn't want to try it with any components made of wax or paper, like a radio from the 1950's. I've yet to see component markings suffer.

20788. Re: [TS-520_820_530_830] Heil HC-5 element

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-04 03:43:13 UTC
From: Michael
Topic: 20785 Message: 20788

Gordon,

Thanks for your response, I have the Heil Gold Line that I purchased along with my TS-2000 3 1/2 years ago. And at that time I also purchased an extra HC-5 element that I have never used. So I though maybe put the element in a mic case and try it. The HC-5 sounds great on the TS-2000.

Thanks
Mike

--- On Fri, 4/3/09, Gordon JC Pearce MM3YEQ <gordon@...> wrote:

From: Gordon JC Pearce MM3YEQ <gordon@...>
Subject: Re: [TS-520_820_530_830] Heil HC-5 element
To: TS-520_820_530_830@yahoogroups.com
Date: Friday, April 3, 2009, 7:59 PM

On Sat, 2009-04-04 at 00:47 +0000, Michael wrote:
> I am just being curious on a different Microphone on the TS-520S. Has
> anybody tried using the Heil HC-5 element on this Radio and if so,
> Comments or A "No" that it wouldn't be a match at all.

The HC-5 is a 2k element, so low-ish impedance compared to the 50k that the TS-520S seems to expect. Still, I don't see any reason for it not to work. It's not low enough to have a serious effect on performance, although you may need to crank the mike gain a bit.

Some sort of preamp would be good, or a matching transformer.

Gordon

[Non-text portions of this message have been removed]

20789. Re: [TS-520_820_530_830] Heil HC-5 element

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-04 09:40:15 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20785 Message: 20789

On Fri, 2009-04-03 at 20:43 -0700, Michael wrote:
> Gordon,
>
> Thanks for your response, I have the Heil Gold Line that I purchased
> along with my TS-2000 3 1/2 years ago. And at that time I also
> purchased an extra HC-5 element that I have never used. So I though
> maybe put the element in a mic case and try it. The HC-5 sounds great
> on the TS-2000.

You won't hurt anything by trying it. At worst, it won't sound very
good.

Gordon

20790. BPSK31 on a TS-520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-04 10:26:53 UTC
From: sv0xbq
Topic: 20790 Message: 20790

Is anyone using a Kenwood Hybrid for data?

I've just tried my TS-520se on BPSK31 and it's drifting enough to be a problem. When it switches back to RX after TX the frequency is slightly off on the waterfall. The sets been on for over an hour so it should be as stable as it's going to get by now. Does anyone else use their set on BPSK31 without any problems? Do I have to take the covers off again ? :-(

Chris

20791. Re: [TS-520_820_530_830] BPSK31 on a TS-520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-04 10:37:11 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20790 Message: 20791

On Sat, 2009-04-04 at 10:26 +0000, sv0xbq wrote:
> Is anyone using a Kenwood Hybrid for data?
>
> I've just tried my TS-520se on BPSK31 and it's drifting enough to be a
> problem. When it switches back to RX after TX the frequency is
> slightly off on the waterfall. The sets been on for over an hour so it
> should be as stable as it's going to get by now. Does anyone else use
> their set on BPSK31 without any problems? Do I have to take the covers
> off again ? :-(

Sounds like yours might be a bit drifty. Mine's pretty stable and works well for PSK31.

Make sure you keep the TX power down. For licence reasons I run at 10W measured at the antenna (the legal limit for MM3 or indeed any M3 licence - cue the braying from the peanut gallery "got your licence off the back of a cornflakes packet" - actually it was off the back of Shreddies packet, shows what you know) which helps keep the PA valves nice and cool. You don't need a lot of power for PSK to work well - with several contacts into the states on 20m running full power made no difference to the received signal (and probably just made it splatter).

There is a fix that has been discussed on this list before, which sorts out the regulation for the VFO power. I've never done it, because my TS-520 is pretty solid once it's been on for a couple of hours. Keep the room at a steady temperature and keep a gentle hand on the throttle, and it should be okay. It's probably also worth reviewing the past few posts about keeping the fan and PA cage clean.

Gordon

20792. Re: BPSK31 on a TS-520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-04 11:30:03 UTC
From: sv0xbq
Topic: 20790 Message: 20792

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce MM3YEQ <gordon@...> wrote:
>
> On Sat, 2009-04-04 at 10:26 +0000, sv0xbq wrote:
> > Is anyone using a Kenwood Hybrid for data?
> >
> > I've just tried my TS-520se on BPSK31 and it's drifting enough to be a
> > problem. When it switches back to RX after TX the frequency is
> > slightly off on the waterfall. The sets been on for over an hour so it
> > should be as stable as it's going to get by now. Does anyone else use
> > their set on BPSK31 without any problems? Do I have to take the covers
> > off again ? :-(
>
> Sounds like yours might be a bit drifty. Mine's pretty stable and works
> well for PSK31.
>
> Make sure you keep the TX power down. For licence reasons I run at 10W
> measured at the antenna (the legal limit for MM3 or indeed any M3
> licence - cue the braying from the peanut gallery "got your licence off
> the back of a cornflakes packet" - actually it was off the back of
> Shreddies packet, shows what you know) which helps keep the PA valves
> nice and cool. You don't need a lot of power for PSK to work well -
> with several contacts into the states on 20m running full power made no
> difference to the received signal (and probably just made it splatter).
>
> There is a fix that has been discussed on this list before, which sorts
> out the regulation for the VFO power. I've never done it, because my
> TS-520 is pretty solid once it's been on for a couple of hours. Keep
> the room at a steady temperature and keep a gentle hand on the throttle,
> and it should be okay. It's probably also worth reviewing the past few
> posts about keeping the fan and PA cage clean.
>
> Gordon

Hi Gordon,

I seem to have sorted this out. I'm using the line in, line out sockets into a laptop and I was turning the mic gain down to give around 50 watts RF out. I've just checked the Ip and found it way too high for 100% duty. I've now turned the gain down further to give Ip of just over 100mA and an RF out of around 30 watts. I'm now getting good reports and it's stable. A couple of thoughts though. Seems likely that the power supply is sagging after a heavy load so is there a power supply problem? an secondly the ALC needly isn't even on the scale so how is the VOX working ?

The sets nice and clean. I've only just got the covers back on after setting it all up.

I don't know if you use this http://psk.gladstonefamily.net/pskmap.html
It's good to see how your signals getting out. I'm just getting to the UK this afternoon so if you've got time look out for me on 20m.

..... and I wouldn't knock the M3's or even the MM3's ;-) . It's a good way to get people into the hobby.

73
Chris M3IEX 2E0AZi M0GHX SV0XBQ/9

>

20793. Re: [TS-520_820_530_830] Re: BPSK31 on a TS-520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-04 11:41:32 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20790 Message: 20793

On Sat, 2009-04-04 at 11:30 +0000, sv0xbq wrote:

> Hi Gordon,
>
> I seem to have sorted this out. I'm using the line in, line out
> sockets into a laptop and I was turning the mic gain down to give

That should work okay. I used a 6dB pad to knock the output of the TS-520 down a bit and plugged it into the mike in on my laptop.

> around 50 watts RF out. I've just checked the Ip and found it way too
> high for 100% duty. I've now turned the gain down further to give Ip
> of just over 100mA and an RF out of around 30 watts. I'm now getting

You could also look at the 9v biasing mod, where you apply a little negative bias to the ALC pin. This lets you turn up the mike gain and get the modulator driven properly, but turns down the power on the PA.

There's a mod you can do where you can switch in the resistor for the PA screen grids which is used in TUNE, and takes the PA down to half power.

> good reports and it's stable. A couple of thoughts though. Seems
> likely that the power supply is sagging after a heavy load so is there
> a power supply problem? an secondly the ALC needly isn't even on the
> scale so how is the VOX working ?

My understanding is that the VOX comes off the mike input. For there to be any ALC at all the set would need to be in transmit, so that wouldn't be useful for VOX...

> The sets nice and clean. I've only just got the covers back on after
> setting it all up.
>
> I don't know if you use this
> http://psk.gladstonefamily.net/pskmap.html
> It's good to see how your signals getting out. I'm just getting to the
> UK this afternoon so if you've got time look out for me on 20m.

I haven't seen that, but it looks pretty useful.

I'll have a play with that just now, and fire up the rig.

> ..... and I wouldn't knock the M3's or even the MM3's ;-) . It's a
> good way to get people into the hobby.

Some people seem to forget that they did a novice licence too. They're probably the same people who drive aggressively around learner drivers.

Gordon

20794. Re: BPSK31 on a TS-520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-04 13:08:23 UTC
From: w5rkl
Topic: 20790 Message: 20794

>the power supply is sagging after a heavy load so is there a power supply problem?

When current flows through a tube a voltage drop occurs in the plate circuit of the tube. This causes a reduction in the tube's plate voltage and is referred to as "voltage drop". As the current through the tube increases, so does the voltage drop in the tube's plate circuit. This is normal tube operation.

Age can take its toll on power supply filter capacitors. Age causes increase in the capacitors internal leakage current. As the capacitor's internal leakage current increases, internal capacitor heating also increases. An indication the capacitors need replacing is when a "dimple" or small "pimple" is seen on the positive side of axial lead capacitors or in the case of the HV filter caps in the hybrids, on the bottom. If the caps in your 520SE have this "dimple" or "pimple", some may even have a broken bottom seal, then it is time to replace the caps. Any "physical" leakage on the positive side or bottom, the capacitor should be replaced regardless of how good they may "appear" to be. Physical leakage is a sign the seal has been broken. The broken seal is caused by excessive pressure build up inside the capacitor due to excessive internal capacitor heating.

>an secondly the ALC needly isn't even on the scale so how is the VOX working ?

ALC has nothing to do with the VOX circuit nor does it control whether VOX works or not. VOX is an "audio" circuit.

ALC occurs ONLY in transmit, never in receive! ALC is a "transmitter" controlling voltage and has absolutely nothing to do with receiver's S meter or any receive function.

ALC is a "by product" of grid current in the final tubes. Grid current slows in the final tubes when the grids are driven "positive" and ONLY when the tubes are driven positive. When grid current flows in the final tubes, the ALC circuit "senses" the grid current. The ALC circuit "rectifies" the grid current into a DC voltage that varies at the same rate as the grid current. This "DC voltage" is now the "ALC" voltage that is fed back to an earlier stage to control the gain of the transmitter just as AGC does in a receiver.

ALC has not control over the speech amplifier nor will it reduce distortion in the speech amplifier's output!

One last thing. A better method of connecting a sound card interface to the 520SE is to use the rear panel's Phone Patch In and Phone Patch Out sockets. If you are using VOX to control the keying of your 520SE then VOX is still available when using the Phone Patch In socket. The MIC gain still controls the audio levels in the 520SE just as though the sound card interface was connected to the MIC socket. The front panel volume control controls the level of audio output level at the Phone Patch Out socket.

73
Mike
W5RKL

20795. Re: Soapy circuit boards?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-04 12:07:01 UTC
From: k2pjw
Topic: 20780 Message: 20795

Hi James,
Thanks for the information. Could you recommend a "soap" that you use? If possible could you recommend a "lube" to use for the movable parts? I have different kinds here, however, I have mostly mechanical lubes that wouldn't work well in an electronics environment, IMHO anyway. Thanks!

--- In TS-520_820_530_830@yahoogroups.com, "James Fogg" <james@...> wrote:
>
> > Phil,
> >
> > Yes, check the link below.
> >
> > http://www.k4eaa.com/faq.htm
>
>
> Washing boards is pretty common in the vintage computer world. Many
> vintage computer restorers use a dishwasher and a non-abrasive automatic
> dishwashing liquid. The choice of "soap" is important because most contain
> abrasives or large amounts of chlorine. Using a small amount of soap
> addresses the chlorine problem.
>
> One thing I've always done when washing electronics is to flush the board
> with lots of isopropyl alcohol (rubbing alcohol, 90%). Isopropyl
> aggressively bonds with water and will draw it away from components and
> tight locations (under IC's for example). After you've chased the water
> away the isopropyl will easily evaporate with a little sunshine or warm
> air (hairdryer).
>
> Sadly, labels and markings don't always survive such treatment. I wouldn't
> want to try it with any components made of wax or paper, like a radio from
> the 1950's. I've yet to see component markings suffer.
>

20796. Re: BPSK31 on a TS-520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-04 23:26:10 UTC
From: w5rkl
Topic: 20790 Message: 20796

Drift in the TS-520SE is primarily due to drift in the 9VDC source. The 9VDC is produced in the FIX CH AVR UNIT from the 14VDC supply.

The VFO is powered by the 9VDC supply and if the 9VDC supply drifts, it usually drifts upwards, the VFO will drift which leads to drift in the 520SE.

If the drift is excessive then the current regulator transistor Q4 (2SA606L) on the FIX CH AVR UNIT and zener diode D3 (WZ-061) also on the FIX CH AVR UNIT should be replaced.

To adjust the 9VDC and 3.3VDC, follow the steps listed below. These steps were obtained from the TS-520SE service manual.

Remove the top cover of the 520SE. The FIX CH AVR UNIT board is directly behind the VFO.

Locate the pin labeled "9". Connect the volt meter's positive lead to this pin and the negative lead to chassis ground. Adjust VR1 on the FIX CH AVR UNIT board so the meter indicates 9VDC +/- .1VDC.

Move the positive meter lead to terminal "RF1". Adjust VR3 so the meter reads 3.3VDC +/- .1VDC.

That's it.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce MM3YEQ <gordon@...> wrote:
>
> On Sat, 2009-04-04 at 10:26 +0000, sv0xbq wrote:
> > Is anyone using a Kenwood Hybrid for data?
> >
> > I've just tried my TS-520se on BPSK31 and it's drifting enough to be a
> > problem. When it switches back to RX after TX the frequency is
> > slightly off on the waterfall. The sets been on for over an hour so it
> > should be as stable as it's going to get by now. Does anyone else use
> > their set on BPSK31 without any problems? Do I have to take the covers
> > off again ? :-(
>
> Sounds like yours might be a bit drifty. Mine's pretty stable and works
> well for PSK31.
>
> Make sure you keep the TX power down. For licence reasons I run at 10W
> measured at the antenna (the legal limit for MM3 or indeed any M3
> licence - cue the braying from the peanut gallery "got your licence off
> the back of a cornflakes packet" - actually it was off the back of
> Shreddies packet, shows what you know) which helps keep the PA valves

> nice and cool. You don't need a lot of power for PSK to work well -
> with several contacts into the states on 20m running full power made no
> difference to the received signal (and probably just made it splatter).
>
> There is a fix that has been discussed on this list before, which sorts
> out the regulation for the VFO power. I've never done it, because my
> TS-520 is pretty solid once it's been on for a couple of hours. Keep
> the room at a steady temperature and keep a gentle hand on the throttle,
> and it should be okay. It's probably also worth reviewing the past few
> posts about keeping the fan and PA cage clean.
>
> Gordon
>

20797. Wafer alignment

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-05 02:00:56 UTC
From: k2pjw
Topic: 20797 Message: 20797

Hi,
I made a rookie mistake. When I removed the RF board from my ts-530s I left the bandswitch in the 10Mhz position. That's all fine except the wafers on the RF board are all outta whack from my cleaning, checking, etc. Is there a trick to knowing how to get them all in their proper orientation again? Thanks.

20798. 520 Alignment again

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-04 22:35:07 UTC
From: Jim Fish
Topic: 20798 Message: 20798

OK, I've run out of ideas now. I still cannot get this 520 to align on 20, 15, or 10 meters.
While the first two 10 meter crystals have been changed out to work on CB, I still want
to at least get it working on 15 and 20 before springing for new crystals.

So yesterday I really got into it. I removed the Antenna coil unit as well as the Mixer
coil unit. I re-glued loose coils back in place and made sure they had all of their
winding right, wound the same way, and cleaned off some old rubber like glue that has been used previoulsy in a poor attempt to repair loose coils. I made sure
that none of the capacitors had been changed. I made sure that the switch contacts were clean and working. I even put my L/C meter across the 40 thru 10 meter coils which are in series and watched the value change as I rotated the
switch thru its band positions. I made sure I could see changes in values when
I turned the slugs in and out. On 10 meters only one coil caused a change. On 15
meters, two coils could cause a change. On 20 meters, three coils could cause a
change and on 40, all four could cause a change. Just what I expected to see.
The same happened on both boards. I put it all back together and I have the same problem. Nothing peaks on 20, 15, or 10.

The hetrodyne crystals are all working great. I can hear them on my station receiver and I can see them on the scope. They are all adjusted to 1 turn after they start to oscillate per the manual. I see no changes under the RF board and near as I can tell, the only mods were the crystal changes.

So what am I over looking? It must be something simple but I've run out of things to look for and tests to make.

73's from a stumped Jim, K7NCG....

20799. Re: [TS-520_820_530_830] Wafer alignment

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-05 03:03:19 UTC
From: Lou Blasco
Topic: 20797 Message: 20799

Hi Phillip,

There's some info on switch repair here - http://www.k4eaa.com/bandswitch.html

The most important paragraph is included below

Now the switch wafers have to be removed, so you can measure and
repair them. This is best done one wafer at a time, so you don't get
them out of order. Use a good solder sucker to remove the solder at
each pin, and they will simply fall out. NOTE AT THIS TIME WHAT
GENERAL DIRECTION THE SWITCH CONTACT IS POINTING! You want to
restore it to this approximate position when you are re-assembling,
so all wafers will be "in sync" when completed. There is a notch in
the plastic on the rotary portion of the switch, if you observe this
and re-assemble them all the same with regards to the notch, it will
serve the same purpose.

It talks about a notch on the rotary portion of the switch. I suggest
you buzz the board out with an ohm meter once you have the switch
re-assembled to make sure everything is in order.

Good luck

Lou
VK3ALB

At 12:00 05/04/2009, you wrote:
>Hi,
> I made a rookie mistake. When I removed the RF board from my
> ts-530s I left the bandswitch in the 10Mhz position. That's all
> fine except the wafers on the RF board are all outta whack from my
> cleaning, checking, etc. Is there a trick to knowing how to get
> them all in their proper orientation again? Thanks.
>
>
>
>------------------------------------
>
>Yahoo! Groups Links
>
>
>

[Non-text portions of this message have been removed]

20800. Re: Soapy circuit boards?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-05 03:33:06 UTC
From: catboat15@aol.com
Topic: 20780 Message: 20800

Not a Kenwood, but years ago I built a Heath Kit single side band receiver from a kit. That radio had stacks of wafer switches to change bands (Kind of like a Kenwood) The switches would get noisy after some time and I would spray them with contact cleaner from Radio Shack. The stuff stank and was a mess to use.

One day I took the chassis out and sprayed all the switches and set it out on our patio to dry and air out.
Apparently our dog also found the odor pretty bad, so he pulled the chassis off the patio and buried it in the back yard.

I called Benton Harbor and asked if I could save the radio and I could hear the laughter all the way to California. The tech was telling everyone "I have some guy here and his dog buried his radio". More laughs and finally he gave me the same advice. "Dig it up, hose it off and rinse well with distilled water and let dry for several days and it should be OK." Worked well so washing a radio is good practice when needed. But be sure to allow ample drying out time before applying power.

John
k6suf

**********Feeling the pinch at the grocery store? Make dinner for $10 or less. (http://food.aol.com/frugal-feasts?ncid=emlcntusfood00000001)

[Non-text portions of this message have been removed]

20801. Re: [TS-520_820_530_830] Re: BPSK31 on a TS-520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-05 04:55:48 UTC
From: Chris and Alex
Topic: 20790 Message: 20801

Thanks Mike and Gordon. That was good.
Chris SV0XBQ

2009/4/5 w5rkl <w5rkl@...>

> Drift in the TS-520SE is primarily due to drift in the 9VDC source. The
> 9VDC is produced in the FIX CH AVR UNIT from the 14VDC supply.
>
> The VFO is powered by the 9VDC supply and if the 9VDC supply drifts, it
> usually drifts upwards, the VFO will drift which leads to drift in the
> 520SE.
>
> If the drift is excessive then the current regulator transistor Q4
> (2SA606L) on the FIX CH AVR UNIT and zener diode D3 (WZ-061) also on the FIX
> CH AVR UNIT should be replaced.
>
> To adjust the 9VDC and 3.3VDC, follow the steps listed below. These steps
> were obtained from the TS-520SE service manual.
>
> Remove the top cover of the 520SE. The FIX CH AVR UNIT board is directly
> behind the VFO.
>
> Locate the pin labeled "9". Connect the volt meter's positive lead to this
> pin and the negative lead to chassis ground. Adjust VR1 on the FIX CH AVR
> UNIT board so the meter indicates 9VDC +/- .1VDC.
>
> Move the positive meter lead to terminal "RF1". Adjust VR3 so the meter
> reads 3.3VDC +/- .1VDC.
>
> That's it.
>
> 73
> Mike
> W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> Gordon JC Pearce MM3YEQ <gordon@...> wrote:
> >
> > On Sat, 2009-04-04 at 10:26 +0000, sv0xbq wrote:
> > > Is anyone using a Kenwood Hybrid for data?
> > >
> > > I've just tried my TS-520se on BPSK31 and it's drifting enough to be a
> > > problem. When it switches back to RX after TX the frequency is
> > > slightly off on the waterfall. The sets been on for over an hour so it

> > > should be as stable as it's going to get by now. Does anyone else use
> > > their set on BPSK31 without any problems? Do I have to take the covers
> > > off again ? :-(
> >
> > Sounds like yours might be a bit drifty. Mine's pretty stable and works
> > well for PSK31.
> >
> > Make sure you keep the TX power down. For licence reasons I run at 10W
> > measured at the antenna (the legal limit for MM3 or indeed any M3
> > licence - cue the braying from the peanut gallery "got your licence off
> > the back of a cornflakes packet" - actually it was off the back of
> > Shreddies packet, shows what you know) which helps keep the PA valves
> > nice and cool. You don't need a lot of power for PSK to work well -
> > with several contacts into the states on 20m running full power made no
> > difference to the received signal (and probably just made it splatter).
> >
> > There is a fix that has been discussed on this list before, which sorts
> > out the regulation for the VFO power. I've never done it, because my
> > TS-520 is pretty solid once it's been on for a couple of hours. Keep
> > the room at a steady temperature and keep a gentle hand on the throttle,
> > and it should be okay. It's probably also worth reviewing the past few
> > posts about keeping the fan and PA cage clean.
> >
> > Gordon
> >
>
>
>

[Non-text portions of this message have been removed]

20802. Re: Soapy circuit boards?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-05 05:31:48 UTC
From: DA
Topic: 20780 Message: 20802

--- In TS-520_820_530_830@yahoogroups.com, catboat15@... wrote:
>
> Not a Kenwood, but years ago I built a Heath Kit single side band receiver
> from a kit. That radio had stacks of wafer switches to change bands (Kind of
> like a Kenwood) The switches would get noisy after some time and I would
> spray them with contact cleaner from Radio Shack. The stuff stank and was a mess
> to use.
>
> One day I took the chassis out and sprayed all the switches and set it out
> on our patio to dry and air out.
> Apparently our dog also found the odor pretty bad, so he pulled the chassis
> off the patio and buried it in the back yard.
>
> I called Benton Harbor and asked if I could save the radio and I could hear
> the laughter all the way to California. The tech was telling everyone "I have
> some guy here and his dog buried his radio". More laughs and finally he gave
> me the same advice. "Dig it up, hose it off and rinse well with distilled
> water and let dry for several days and it should be OK." Worked well so washing
> a radio is good practice when needed. But be sure to allow ample drying out
> time before applying power.
>
> John
> k6suf
>
> **********Feeling the pinch at the grocery store? Make dinner for $10 or
> less. (http://food.aol.com/frugal-feasts?ncid=emlcntusfood00000001)
>
>
> [Non-text portions of this message have been removed]
>

What a great side story, John! I will remember this one, and how it relates to cleaning a radio.

73,
Donn

20803. Re: [TS-520_820_530_830] Re: Soapy circuit boards?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-05 11:20:20 UTC
From: James Fogg
Topic: 20780 Message: 20803

> Hi James,
> Thanks for the information. Could you recommend a "soap" that you use?
> If possible could you recommend a "lube" to use for the movable parts?
> I have different kinds here, however, I have mostly mechanical lubes
> that wouldn't work well in an electronics environment, IMHO anyway.
> Thanks!

There's a lot of choices in automatic dishwashing soaps. Avoid the ones that list anything that sounds like sand (silica-blah). Then take a drop and spread it out on your wet hands, wait a 1/2 minute and then sniff. If you smell chlorine (bleach) then skip that brand.

Generally, the one that does the trick is a "natural" or "save the planet" type brand.

If you don't have luck, don't use soap in the machine. Hot water and pressure do more work than you might think. Don't use hand dishwashing soap as it suds and the machine can't handle suds. I did have luck using tiny bit of an "HE" type low sudsing laundry detergent, but use the scent-less type or you'll have a flowery smelling dish load for a few loads after.

When I use soap, I always run the electronics through a full cycle without soap to assure good rinsing.

20804. Re: [TS-520_820_530_830] Re: Soapy circuit boards?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-05 16:49:03 UTC
From: achappman
Topic: 20780 Message: 20804

I tried this some time ago but forgot to turn off the "heated dry". some of the coils had the wax melted out of them

--- On Sun, 4/5/09, James Fogg <james@...> wrote:

From: James Fogg <james@...>
Subject: Re: [TS-520_820_530_830] Re: Soapy circuit boards?
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, April 5, 2009, 4:20 AM

> Hi James,

> Thanks for the information. Could you recommend a "soap" that you use?

> If possible could you recommend a "lube" to use for the movable parts?

> I have different kinds here, however, I have mostly mechanical lubes

> that wouldn't work well in an electronics environment, IMHO anyway.

> Thanks!

There's a lot of choices in automatic dishwashing soaps. Avoid the ones

that list anything that sounds like sand (silica-blah) . Then take a drop

and spread it out on your wet hands, wait a 1/2 minute and then sniff. If

you smell chlorine (bleach) then skip that brand.

Generally, the one that does the trick is a "natural" or "save the planet"

type brand.

If you don't have luck, don't use soap in the machine. Hot water and

pressure do more work than you might think. Don't use hand dishwashing

soap as it suds and the machine can't handle suds. I did have luck using

tiny bit of an "HE" type low sudsing laundry detergent, but use the

scent-less type or you'll have a flowery smelling dish load for a few

loads after.

When I use soap, I always run the electronics through a full cycle without

soap to assure good rinsing.

[Non-text portions of this message have been removed]

20805. RE: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's Back!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-05 19:50:07 UTC
From: Tate Antrim
Topic: 20584 Message: 20805

Ok…took a better look at my schematic and those components are there. Just shown on the back side of the board. So now I'm back to deciding whether to replace the entire AF board or try to just replace the relay. I think the problem is coming from the AF board

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
Sent: Friday, April 03, 2009 8:03 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's Back!

Tate,

The TS-830 service bulletins are available direct from Kenwood's website, free. Click on the following link, scroll down to the Amateur Radio Service Bulletins, click the drop down menu and scroll and click on TS-830S. The service bulletins will show up as links to download after you click on TS-830S.

http://www.kenwoodusa.com/Support/AMA_Radios/#_

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com <mailto:TS-520_820_530_830%40yahoogroups.com> , "Tate Antrim" <kd8hja@...> wrote:
>
> Ok
>
>
>
> Got the repair kit from K4EAA and replaced the requisite resistorsâ€¦that fixed my IP issues now with just a bit over 200mA I get 125W out on 20m. One of the cathode resistors was 27 ohms and the other was 39.
>
>
>
> But the issue with delayed output response is still there after the rig warms up. Sometimes not having any output at all or having swings in the output and then after flipping it to send it takes a couple of seconds to respond (in tune or CW).
>
>
>
> Ken, K4EAA, suggests that it is RLY1 and yesâ€¦tapping on the relay will affect output. So I removed the AF board to determine how difficult it would be to remove the relay and I think someone at some point in time has futzed with my AF board. There are a couple of components on the bottom of the board (an electrolytic and resistor tied together â€"

perhaps that was a service bulletin?) Plus another disc cap and resistor that I donâ€™t see on the schematic and it also looks like someone at some point replaced the audio output amp and didnâ€™t do a good job of it on the soldering.
>
>
>
> So I think Iâ€™ll just order an AF board from Bob Mansker and pop that in instead of messing around with the current board.
>
>
>
> From: TS-520_820_530_830@yahoogroups.com <mailto:TS-520_820_530_830%40yahoogroups.com> [mailto:TS-520_820_530_830@yahoogroups.com <mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of Tate Antrim
> Sent: Wednesday, March 18, 2009 10:24 PM
> To: TS-520_820_530_830@yahoogroups.com <mailto:TS-520_820_530_830%40yahoogroups.com>
> Subject: RE: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's Back!
>
>
>
> Those will be ordered tomorrowâ€¦Mind youâ€¦I donâ€™t operate the rig continuously at 300mA that was a dead key down on the bench into a dummy load. Usually it is operating sideband.
>
> From: TS-520_820_530_830@yahoogroups.com <mailto:TS-520_820_530_830%40yahoogroups.com> <mailto:TS-520_820_530_830%40yahoogroups.com> [mailto:TS-520_820_530_830@yahoogroups.com <mailto:TS-520_820_530_830%40yahoogroups.com> <mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of w5rkl
> Sent: Wednesday, March 18, 2009 12:19 PM
> To: TS-520_820_530_830@yahoogroups.com <mailto:TS-520_820_530_830%40yahoogroups.com> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Subject: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's Back!
>
> Tate,
>
> I agree with Gordon, replace all 4 of the final tube cathode resistors, R2 thru R5, with new 20 ohm 1/2 watt resistors.
>
> 300ma plate current in the final tubes is way too high! Continued operating the 830 at this high current level will not only cause early tube failure but it can easily result in power supply failures which could lead to failures in other components/circuits as well.
>
> At this point and based on your comments about the cathode resistors, I disagree with your idea the problem is the HV supply. Replace all 4 of the cathode resistors then check for final amplifier stability. Only then if the problem continues would I agree to check the power supply or other areas for the source of the problem.
>
> 73
> Mike
> W5RKL
>

> --- In TS-520_820_530_830@yahoogroups.com <mailto:TS-520_820_530_830%40yahoogroups.com>
<mailto:TS-520_820_530_830%40yahoogroups.com>
<mailto:TS-520_820_530_830%40yahoogroups.com> , Gordon JC Pearce MM3YEQ <gordon@> wrote:
> >
> > On Wed, 2009-03-18 at 08:29 -0400, Tate Antrim wrote:
> >
> > <snip>
> >
> > > At k4EAAÃ¢â‚¬â„¢s suggestion IÃ¢â‚¬â„¢m also looking at RL-1 and IÃ¢â‚¬â„¢m going to
replace the
> > > cathode resistors as there is about 8 ohms to ground instead of 4.5 Ã¢â‚¬" 5
> > > which could explain the amount of current IÃ¢â‚¬â„¢m reading that seems a bit high
> > > Ã¢â‚¬" in fact it would be almost double what is really there. I pulled the PCB
> > > in the final cage and inspected each resistor, but 8 ohms would indicate
> > > that theyÃ¢â‚¬â„¢ve all tended towards high ohms over time.
> >
> > <snip>
> >
> > Until you've done that, all bets are off. It's more likely that one of
> > the resistors is entirely open, but they could *all* be on the way
> > out...
> >
> > That reading is *definitely* wrong.
> >
> > Gordon
> >
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

20806. [TS-520_820_530_830] BPSK31 on a TS-520S works fine....

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-05 20:14:03 UTC
From: Old Diesel Boat Radioman
Topic: 20806 Message: 20806

TS-520S - NUE-PSK group:

I have an old TS-520S and have been using it with my NUE-PSK modem for months with absolutely NO problems. I do have a DG-5 to track frequency accurately. Audio in / Audio out simple patch cables -- works fine lasts long time..

I reported this to the NUE-PSK group and George N2APB months ago.

73 de Howard K3HW

[Non-text portions of this message have been removed]

20807. Re: TS830S - Strange Behavior - It's Back!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-05 20:53:57 UTC
From: w5rkl
Topic: 20584 Message: 20807

Tate,

Check the voltage on the final amplifier's "SG" pin connection. If the "SG" voltage is unstable check resistors R15 and R16, both 56K, on the Rectifier Unit. You also might check RL1 on the Rectifier Unit. It is possible the contacts are dirty.

73
Mike
W5RKL

20808. ESD with the Hybrids

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-05 21:53:30 UTC
From: k2pjw
Topic: 20808 Message: 20808

Hi,
Before I start replacing questionable parts I thought I would ask if ESD is a big deal with these old rigs. When working on laptops, cpu's, etc.,I wear a wrist strap and use a rubber mat, etc. so I hopefully won't short anything with static discharge. Digging into my ts-530s it appears I need to be careful but maybe not quite so extreme as wearing the wrist strap,etc. What do you all recommend? Is this an issue with the hybrids? Thank You.

20809. Re: ESD with the Hybrids

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-05 23:02:30 UTC
From: w5rkl
Topic: 20808 Message: 20809

Although ESD may not be as much of an issue with the hybrids as it is with computer boards, ESD is an issue with sensitive boards. I've never had a problem with ESD but then again, I try to place myself and the board at the same potential. If you have the ESD equipment then use it.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "k2pjw" <k2pjw@...> wrote:
>
> Hi,
> Before I start replacing questionable parts I thought I would ask if ESD is a big deal with these old rigs. When working on laptops, cpu's, etc.,I wear a wrist strap and use a rubber mat, etc. so I hopefully won't short anything with static discharge. Digging into my ts-530s it appears I need to be careful but maybe not quite so extreme as wearing the wrist strap,etc. What do you all recommend? Is this an issue with the hybrids? Thank You.
>

20810. Re: [TS-520_820_530_830] BPSK31 on a TS-520S works fine....

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-05 23:19:40 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20806 Message: 20810

On Sun, 2009-04-05 at 13:14 -0700, Old Diesel Boat Radioman wrote:
> TS-520S - NUE-PSK group:
>
> I have an old TS-520S and have been using it with my NUE-PSK modem for
> months with absolutely NO problems. I do have a DG-5 to track
> frequency accurately. Audio in / Audio out simple patch cables --
> works fine lasts long time..

One of the great things about PSK is that because you're tracking two closely-spaced frequencies *somewhere* in the audio spectrum, you don't need to care too much about the actual VFO frequency just as long as you can find out your TX frequency.

That said, I check my TS-520 with the frequency counter once a week when I'm doing the rest of the provocative maintenance, just to make sure the calibrator is still singing the right song. It always is ;-)

Gordon MM3YEQ

20811. QUIT!!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-06 02:13:47 UTC
From: Paul Andreasen
Topic: 20746 Message: 20811

There is a lot of great info on this group, but who is the Moderator? I have changed my account a dozen times trying to get the flood of messages to STOP! I would rather look them up, as 99% do not pertain to anything I have, or am interested in. Can someone figure out why I change my settings, but still keep getting ALL the messages?
Paul Andreasen, K1JAN

20812. Re: [TS-520_820_530_830] QUIT!!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-06 03:04:09 UTC
From: WA6RKN
Topic: 20746 Message: 20812

Paul....

In YahooGroups, you can get messages 3 ways, and ONLY 3 ways,.

1. via email,
2. By Digest,
3, read on-line at TS-520_820_530_830@yahoogroups.com.

Messages cannot be filtered according to topic.

Joe Wolfe
WA6RKN

----- Original Message -----
From: "Paul Andreasen" <pandreasen@...>
Subject: [TS-520_820_530_830] QUIT!!

> There is a lot of great info on this group, but who is the Moderator? I
> have changed my account a dozen times trying to get the flood of messages
> to STOP! I would rather look them up, as 99% do not pertain to anything I
> have, or am interested in. Can someone figure out why I change my
> settings, but still keep getting ALL the messages?
> Paul Andreasen, K1JAN

20813. Re: [TS-520_820_530_830] QUIT!!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-06 03:12:08 UTC
From: martin
Topic: 20746 Message: 20813

Hi Paul. I would suggest NOT getting the group messages sent to your
ISP issued email address. Read them through Yahoo mail, or better
yet, just read them online.

TTYL

Paul Andreasen wrote:
> There is a lot of great info on this group, but who is the Moderator? I have changed my account a dozen times trying to get the flood of messages to STOP! I would rather look them up, as 99% do not pertain to anything I have, or am interested in. Can someone figure out why I change my settings, but still keep getting ALL the messages?
> Paul Andreasen, K1JAN
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

20814. Shure 444D and TS-520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-06 02:53:05 UTC
From: Christopher Maness
Topic: 20814 Message: 20814

I just recently purchased an ol' 520s and had a 444d in the junk box. I believe it is the stock wire. The Red and GND is the mic??

I see that the black and white is the PTT.

When I hook it up as such, I get very tiny deflection of my power meeter with the mic gain all the way up and the processor on. I am currently able to get close to 100W out on CW, so I don't necessarily think that it is tube issue.

Did I wire the mic correctly? I have learned through my experience as a sound tec that I still get a tiny amount of sound with one mic lead connected due to stray capacitance (in a balanced mic).

Chris KQ6UP

20815. RE: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's Back!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-06 04:06:30 UTC
From: Tate Antrim
Topic: 20584 Message: 20815

Ah hah!!!!

SG voltage is perfect at all times (including TUNE).

Very tricky. Turns out it seems to be the big audio IC on the AF board. Letting the rig run for a couple of hours it will start to exhibit the problem of delayed response on output finally dropping down to nothing. My gut told me that something on that board is causing a problem. I ruled out the PLL and such because it was displaying the correct frequency and problem is on all bands and the display is rock solid. But what I noticed is that plate current drops to 60mA in CW when you hit send.bingo.acts just like USB/LSB when you hit Send and there's no audio to excite it.

I put my finger on the aluminum around the AF board and it seemed inordinately "warm" for just sitting there running. Flipping the switch to send would seem to increase the overall temperature. So I got out a can of canned air and blasted components around the area where it seemed a bit warm and all of a sudden output jumped up to 100w instantly. Letting off the cold air and output drops back to 0W.cold air on 100w out. Cold air off.0W. Wax on, wax off. So I narrowed it down to the big IC.

I noticed the other day when I have the AF board out that it looked like either someone at some point replaced the chip or tried to resolder it - either way it didn't look right. But it just didn't make the connection in my head.

So I think for now I'll try to get another AF board and I should be back in biz with the old girl.

Thanks for everyone's help.

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
Sent: Sunday, April 05, 2009 4:54 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's Back!

Tate,

Check the voltage on the final amplifier's "SG" pin connection. If the "SG" voltage is unstable check resistors R15 and R16, both 56K, on the Rectifier Unit. You also might check RL1 on the Rectifier Unit. It is possible the contacts are dirty.

73
Mike
W5RKL

[Non-text portions of this message have been removed]

20816. Re: [TS-520_820_530_830] QUIT!!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-06 05:17:20 UTC
From: WA6RKN
Topic: 20746 Message: 20816

Why? Not trying to be disrespectful, but...that's the silliest thing I have ever heard. (Not reading via your ISP's email)

I am really interested in hearing why you have come to that conclusion...so..as it IS off topic here, respond to me via WA6RKN@.... Thanks!

Joe Wolfe
WA6RKN

----- Original Message -----
From: "martin" <kb0hae@...>
Subject: Re: [TS-520_820_530_830] QUIT!!

> Hi Paul. I would suggest NOT getting the group messages sent to your
> ISP issued email address. Read them through Yahoo mail, or better
> yet, just read them online.

20817. Re: [TS-520_820_530_830] QUIT!!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-06 06:28:18 UTC
From: Lou Blasco
Topic: 20746 Message: 20817

Hi Joe,

I also wondered why Martin would recommend against getting posts sent
to an ISP email address. However, consider if I changed my ISP quite
often. I subscribe to a number of different groups, some through
Yahoo some not. It would be a real pain to change all those
subscriptions to my new ISP email address. Now if I subscribed to all
the groups using a gmail/yahoo/msn/hotmail/whatever account it
wouldn't matter how many times I changed ISP my subscription email
would always go to the right place - no hassles.

Perhaps that's what Martin was trying to say?

In any event that probably wouldn't help Paul. Seems he's having
problems with his user profile setup and as you suggested he needs to
select the "web only" option in the "Edit Membership" link. I've had
problems with this in the past because I have more than one user
profile. Sometimes they interact and don't behave the way you hope they would.

Regards

Lou
VK3ALB

At 15:17 06/04/2009, you wrote:
>Why? Not trying to be disrespectful, but...that's the silliest thing I have
>ever heard. (Not reading via your ISP's email)
>
>I am really interested in hearing why you have come to that
>conclusion...so..as it IS off topic here, respond to me via
>WA6RKN@.... Thanks!
>
>Joe Wolfe
>WA6RKN
>
>----- Original Message -----
>From: "martin" <kb0hae@...>
>Subject: Re: [TS-520_820_530_830] QUIT!!
>
>
> > Hi Paul. I would suggest NOT getting the group messages sent to your
> > ISP issued email address. Read them through Yahoo mail, or better
> > yet, just read them online.
>
>
>

>------------------------------------
>
>Yahoo! Groups Links
>
>
>

20818. Re: [TS-520_820_530_830] QUIT!!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-06 07:28:18 UTC
From: Walter A. Breining
Topic: 20746 Message: 20818

Your account has been changed to no email.

Vy 73, Walt N9WB

----- Original Message -----
From: Paul Andreasen
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, April 05, 2009 9:13 PM
Subject: [TS-520_820_530_830] QUIT!!

There is a lot of great info on this group, but who is the Moderator? I have changed my account a dozen times trying to get the flood of messages to STOP! I would rather look them up, as 99% do not pertain to anything I have, or am interested in. Can someone figure out why I change my settings, but still keep getting ALL the messages?
Paul Andreasen, K1JAN

[Non-text portions of this message have been removed]

20819. Re: [TS-520_820_530_830] Shure 444D and TS-520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-06 07:45:52 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20814 Message: 20819

On Mon, 2009-04-06 at 02:53 +0000, Christopher Maness wrote:
> I just recently purchased an ol' 520s and had a 444d in the junk box.
> I believe it is the stock wire. The Red and GND is the mic??
>
> I see that the black and white is the PTT.
>
> When I hook it up as such, I get very tiny deflection of my power
> meeter with the mic gain all the way up and the processor on. I am
> currently able to get close to 100W out on CW, so I don't necessarily
> think that it is tube issue.

I was on the Internet and I found this... </clarkson>

http://www.qsl.net/yv5grb/shure444dmanual.htm

This seems to suggest that there's an impedance switch on the bottom,
which should be set to "high". It's always possible that the mike is
set to high impedance and the transformer is knackered, in which case
you'll want a preamp.

Gordon MM3YEQ

20820. Re: [TS-520_820_530_830] Heil HC-5 element

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-06 07:51:40 UTC
From: Walter A. Breining
Topic: 20785 Message: 20820

One of the reasons Heil designed this element was for use on Kenwood 520 and 820 radios. It was often used in place of the element in the MC-50. It should work just fine with the 520.

Vy 73, Walt N9WB

----- Original Message -----
From: Michael
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, April 03, 2009 7:47 PM
Subject: [TS-520_820_530_830] Heil HC-5 element

I am just being curious on a different Microphone on the TS-520S. Has anybody tried using the Heil HC-5 element on this Radio and if so, Comments or A "No" that it wouldn't be a match at all.

Thanks
ki0gv
Mike

[Non-text portions of this message have been removed]

20821. Re: [TS-520_820_530_830] QUIT!!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-06 08:42:12 UTC
From: martin
Topic: 20746 Message: 20821

Hi Joe. My reason for suggesting that Paul not have the group mail
sent to his ISP email account is that he seems to not want to get/read
all the messages, only those on topics that interest him. The only
way to do that is to juat read the archives online. I suppose he
could just read the messages that he is interested in, and delete the
rest.

I have the group mail sent to my ISP email account, and have a folder
set up, and a filter so that this groups messages go to that folder.
Same with the other email groups I subscribe to. I do think that
using web mail as one's primary email account is silly, but to each
his/her own!

TTYL

WA6RKN wrote:
> Why? Not trying to be disrespectful, but...that's the silliest thing I have
> ever heard. (Not reading via your ISP's email)
>
> I am really interested in hearing why you have come to that
> conclusion...so..as it IS off topic here, respond to me via
> WA6RKN@.... Thanks!
>
> Joe Wolfe
> WA6RKN
>
> ----- Original Message -----
> From: "martin" <kb0hae@...>
> Subject: Re: [TS-520_820_530_830] QUIT!!
>
>
>> Hi Paul. I would suggest NOT getting the group messages sent to your
>> ISP issued email address. Read them through Yahoo mail, or better
>> yet, just read them online.
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

20822. Re: [TS-520_820_530_830] TS830M HV and Ip

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-06 10:47:29 UTC
From: Daniel TOESCA
Topic: 20429 Message: 20822

Check your line voltage first !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

The set can be wired for either 220 or 240 volts AC.

If you apply 240 volts to a set wired for 220, you have about 10 % more
voltage than requested.

It could be why your HV reads 970 volts in lieu of 900.

If you make any change, check the 9 volt regulated supply adjustment.

Just an idea...

Good luck & 73's - Daniel, ON5PY

2009/3/3, kenquad <kenquad@...>:
>
> I have a TS830M which I purchased from ebay about a year ago. When I
> received the rig I sent it off to Castle Electronice (a very well
> known electronic repair shop in UK) for a complete check over, and I
> requested their views on the overall condition of the radio.
> The radio was realigned and a few resistors replaced. They described
> the radio as a "Keeper" and said that the WARC bands had never
> been activated, the diodes were still intact.
> I have been using the radio this past year and have always wondered
> about the HV and Ip readings on the meter. The HV is reading 970 volts,
> dropping to just under 900 volts on transmit. The Ip reads 300mV, this
> is in the CW position when tuning up. Are these meter readings too high.
> I would have thought the Ip reading certainly is ?.
> The radio is working Very well on both TX and RX, and tuning up the
> radio is very smoothe, no erratic or sudden changes in meter readings.
> Could it be possible the meter is not giving accurate readings ?.
>
>
>
>

[Non-text portions of this message have been removed]

20823. Re: [TS-520_820_530_830] TS830M HV and Ip

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-06 11:27:28 UTC
From: richard.bown@blueyonder.co.uk
Topic: 20429 Message: 20823

Daniel TOESCA wrote:
>
>
> Check your line voltage first !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
>
> The set can be wired for either 220 or 240 volts AC.
>
> If you apply 240 volts to a set wired for 220, you have about 10 % more
> voltage than requested.
>
> It could be why your HV reads 970 volts in lieu of 900.
>
> If you make any change, check the 9 volt regulated supply adjustment.
>
> Just an idea...
>
> Good luck & 73's - Daniel, ON5PY

BTW the UK line voltage is 230 V not 240.
The line level was dropped a few years ago

>
> 2009/3/3, kenquad <kenquad@... <mailto:kenquad%40yahoo.co.uk>>:
> >
> > I have a TS830M which I purchased from ebay about a year ago. When I
> > received the rig I sent it off to Castle Electronice (a very well
> > known electronic repair shop in UK) for a complete check over, and I
> > requested their views on the overall condition of the radio.
> > The radio was realigned and a few resistors replaced. They described
> > the radio as a "Keeper" and said that the WARC bands had never
> > been activated, the diodes were still intact.
> > I have been using the radio this past year and have always wondered
> > about the HV and Ip readings on the meter. The HV is reading 970 volts,
> > dropping to just under 900 volts on transmit. The Ip reads 300mV, this
> > is in the CW position when tuning up. Are these meter readings too high.
> > I would have thought the Ip reading certainly is ?.
> > The radio is working Very well on both TX and RX, and tuning up the
> > radio is very smoothe, no erratic or sudden changes in meter readings.
> > Could it be possible the meter is not giving accurate readings ?.
> >
> >
>

--
Best wishes

Richard Bown

##
Registered Linux User 36561
OS: Ubuntu 8.10, Intrepid, on AMD Dual Athlon 64 +4400: 8 GB RAM DDR2
Ham Call: G8JVM , QRA IO82SP, Interests Microwave
##

20824. Re: [TS-520_820_530_830] TS830M HV and Ip

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-06 11:40:23 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20429 Message: 20824

On Mon, 2009-04-06 at 12:27 +0100, richard.bown@... wrote:

> BTW the UK line voltage is 230 V not 240.
> The line level was dropped a few years ago

That's a nominal 230 volts, though. They changed the tolerance at the same time. Previously it was 240V +/- 6%, but now it's 230V -6%, +10%. Do you see what they did there? Kept the upper tolerance voltage almost the same (253V instead of 254.4V), thus allowing power companies to keep supplying 240V.

A quick check of the various systems tells me that my mains voltage has been bob on 240V for the past 24 hours here in Glasgow, and wobbling slightly between 238V and 242V at my site on Skye.

Gordon MM3YEQ

20825. Re: [TS-520_820_530_830] TS830M HV and lp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-06 11:54:46 UTC
From: richard.bown@blueyonder.co.uk
Topic: 20429 Message: 20825

Gordon JC Pearce MM3YEQ wrote:
>
>
> On Mon, 2009-04-06 at 12:27 +0100, richard.bown@...
> <mailto:richard.bown%40blueyonder.co.uk> wrote:
>
> > BTW the UK line voltage is 230 V not 240.
> > The line level was dropped a few years ago
>
> That's a nominal 230 volts, though. They changed the tolerance at the
> same time. Previously it was 240V +/- 6%, but now it's 230V -6%, +10%.
> Do you see what they did there? Kept the upper tolerance voltage almost
> the same (253V instead of 254.4V), thus allowing power companies to keep
> supplying 240V.
>
> A quick check of the various systems tells me that my mains voltage has
> been bob on 240V for the past 24 hours here in Glasgow, and wobbling
> slightly between 238V and 242V at my site on Skye.
>
> Gordon MM3YEQ
>
>
It also means you use more power, sneaky way to put up electricity bills

--
Best wishes

Richard Bown

##
Registered Linux User 36561
OS: Ubuntu 8.10, Intrepid, on AMD Dual Athlon 64 +4400: 8 GB RAM DDR2
Ham Call: G8JVM , QRA IO82SP, Interests Microwave
##

20826. Re: [TS-520_820_530_830] TS830M HV and Ip

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-06 12:04:47 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20429 Message: 20826

On Mon, 2009-04-06 at 12:54 +0100, richard.bown@... wrote:

> It also means you use more power, sneaky way to put up electricity bills
>

Well now, far be it from me to suggest such a thing... ;-)

No doubt it's written up as one of these "for your convenience..."
things.

Gordon

20827. Re: [TS-520_820_530_830] QUIT!!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-06 12:16:14 UTC
From: William S. White
Topic: 20746 Message: 20827

FWIW
Messages can be grouped by topic in Outlook Express.
On the menu bar click,
View > Current View > Group Messages by Conversation

Bill
KC2PCF

> Messages cannot be filtered according to topic.
>
> Joe Wolfe
> WA6RKN

20828. Re: TS830S - Strange Behavior - It's Back!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-06 15:14:04 UTC
From: w5rkl
Topic: 20584 Message: 20828

Hello Tate,

With the additional information you provided especially giving Q4 on the AF UNIT a shot of cold air, it appears you have found the culprit that is causing your problem. The question I had was how does Q4 affect the transmitter output signal? This information may have been presented earlier but I may have just missed it.

Here is what I think is happening to cause the RF output to drop to zero.

When Q4 on the AF UNIT goes bananas it drags down the 12VDC supply. When this happens, Q29 on the IF UNIT is affected, basically shutting down Q29. Q29 on the IF UNIT is the "TIF" (Transmit IF) amplifier. The TIF signal is fed from the IF UNIT to the RF UNIT where it is mixed in Q6 and Q7 with the VCO signal to produce the "operating" frequency. If the TIF signal is missing in the RF UNIT then there will be no operating frequency to feed to the driver and final tubes, hence, zero RF output! By giving Q4 on the AF UNIT a shot of cold air, Q4 starts operating properly which brings the 12VDC source back to its normal level and Q29 operates normally and amplifies the TIF signal, the TIF and VCO signals mix in Q6 and Q7 producing the operating frequency and output is seen at the final amplifier.

I suspect if you placed a scope on the RF UNIT's "TIF" connection and when Q4 on the AF UNIT goes bananas, the level of TIF signal would drop considerably which would cause the RF output to also drop. Giving Q4 a shot of cold air will cause the TIF signal to return and will show up on the scope and output will return from the final amplifier. A VTVM connected to the IF UNIT "12" pin will also show a reduction in the 12VDC supply when Q4 goes bananas but will return to its normal level when Q4 s given a shot of cold air. Just a few thoughts I had.

Good job Tate!!

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Tate Antrim" <kd8hja@...> wrote:
>
> Ah hah!!!!
>
>
>
> SG voltage is perfect at all times (including TUNE).
>
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>
> Very tricky. Turns out it seems to be the big audio IC on the AF board.
> Letting the rig run for a couple of hours it will start to exhibit the
> problem of delayed response on output finally dropping down to nothing. My
> gut told me that something on that board is causing a problem. I ruled out

> the PLL and such because it was displaying the correct frequency and problem
> is on all bands and the display is rock solid. But what I noticed is that
> plate current drops to 60mA in CW when you hit send.bingo.acts just like
> USB/LSB when you hit Send and there's no audio to excite it.
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> inordinately "warm" for just sitting there running. Flipping the switch to
> send would seem to increase the overall temperature. So I got out a can of
> canned air and blasted components around the area where it seemed a bit warm
> and all of a sudden output jumped up to 100w instantly. Letting off the
> cold air and output drops back to 0W.cold air on 100w out. Cold air off.0W.
> Wax on, wax off. So I narrowed it down to the big IC.
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> I noticed the other day when I have the AF board out that it looked like
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> my head.
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> So I think for now I'll try to get another AF board and I should be back in
> biz with the old girl.
>
>
>
> Thanks for everyone's help.
>
>
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
> Sent: Sunday, April 05, 2009 4:54 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's Back!
>
>
>
> Tate,
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> Check the voltage on the final amplifier's "SG" pin connection. If the "SG"
> voltage is unstable check resistors R15 and R16, both 56K, on the Rectifier
> Unit. You also might check RL1 on the Rectifier Unit. It is possible the
> contacts are dirty.
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> 73
> Mike

> W5RKL
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>
> [Non-text portions of this message have been removed]
>

20829. Re: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's Back!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-06 15:52:56 UTC
From: Daniel TOESCA
Topic: 20584 Message: 20829

Hello,

Sorry, I didn't follow the whole case, but wouldn't it be possible to glue a larger aluminium radiator on Q4 ?? I remember a problem with a TV processor chip that drifted when heating. I removed it cutting its pins - 40 or 42... - to replace using a socket, but almost shot the new one because of a broken ground connection. Epoxying a radiator would have been much easier. Just my two eurocents....

73's Daniel, ON5PY

2009/4/6, w5rkl <w5rkl@...>:
> Hello Tate,
>
> With the additional information you provided especially giving Q4 on the AF
> UNIT a shot of cold air, it appears you have found the culprit that is
> causing your problem. The question I had was how does Q4 affect the
> transmitter output signal? This information may have been presented earlier
> but I may have just missed it.
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> Here is what I think is happening to cause the RF output to drop to zero.
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> When Q4 on the AF UNIT goes bananas it drags down the 12VDC supply. When
> this happens, Q29 on the IF UNIT is affected, basically shutting down Q29.
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> VCO signal to produce the "operating" frequency. If the TIF signal is
> missing in the RF UNIT then there will be no operating frequency to feed to
> the driver and final tubes, hence, zero RF output! By giving Q4 on the AF
> UNIT a shot of cold air, Q4 starts operating properly which brings the 12VDC
> source back to its normal level and Q29 operates normally and amplifies the
> TIF signal, the TIF and VCO signals mix in Q6 and Q7 producing the operating
> frequency and output is seen at the final amplifier.
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> I suspect if you placed a scope on the RF UNIT's "TIF" connection and when
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> W5RKL
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> > Very tricky. Turns out it seems to be the big audio IC on the AF board.
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> > Thanks for everyone's help.
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> > [mailto:TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>]
> On Behalf Of w5rkl
> > Sent: Sunday, April 05, 2009 4:54 PM
> > To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> > Subject: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's Back!
> >
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> > Tate,
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> > Check the voltage on the final amplifier's "SG" pin connection. If the
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> >
> > [Non-text portions of this message have been removed]
> >
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>

[Non-text portions of this message have been removed]

20830. Re: [TS-520_820_530_830] Shure 444D and TS-520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-06 12:38:27 UTC
From: Christopher Maness
Topic: 20814 Message: 20830

Gordon JC Pearce MM3YEQ wrote:
> On Mon, 2009-04-06 at 02:53 +0000, Christopher Maness wrote:
>
>> I just recently purchased an ol' 520s and had a 444d in the junk box.
>> I believe it is the stock wire. The Red and GND is the mic??
>>
>> I see that the black and white is the PTT.
>>
>> When I hook it up as such, I get very tiny deflection of my power
>> meeter with the mic gain all the way up and the processor on. I am
>> currently able to get close to 100W out on CW, so I don't necessarily
>> think that it is tube issue.
>>
>
> I was on the Internet and I found this... </clarkson>
>
> http://www.qsl.net/yv5grb/shure444dmanual.htm
>
> This seems to suggest that there's an impedance switch on the bottom,
> which should be set to "high". It's always possible that the mike is
> set to high impedance and the transformer is knackered, in which case
> you'll want a preamp.
>
> Gordon MM3YEQ
It is definitely in the Hi Z position. I got an almost imperceptible deflection in the Low Z setting. I am not sure if I wired the mic correctly. I just met a new ham around he corner, and he said that he had an 830, so maybe I will see if I can test my mic on his rig.

Chris KQ6UP

20831. Re: [TS-520_820_530_830] Shure 444D and TS-520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-06 17:26:25 UTC
From: Ken Winterling
Topic: 20814 Message: 20831

Chris,

I am at work now and don't have access to my " laptop library". When I get home tonight I will send you a detailed wiring diagram for that mic and rig. I'll also include additional information regarding a simple wiring mod to the mic for VOX use that eliminates the need to lock the PTT bar and flip the switch on the bottom of the mic. The mod also gives you PTT over ride when in VOX mode, something the original wiring did not allow.

Ken, WA2LBI

On Mon, Apr 6, 2009 at 08:38, Christopher Maness <chris@...>wrote:

> Gordon JC Pearce MM3YEQ wrote:
> > On Mon, 2009-04-06 at 02:53 +0000, Christopher Maness wrote:
> >
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>
>
>

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> ------------------------------------
>
> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

20832. Re: TS830S - Strange Behavior - It's Back!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-06 18:52:58 UTC
From: w5rkl
Topic: 20584 Message: 20832

Hello Daniel,

That would be a possible solution if the chip did not have a heat sink already.

Based on Tate's comments, it appears a previous owner tried to replace the chip and did a bad job of it. Whether it's possible to "clean" up the mess the previous owner made, at least for my point of view, is not known. I would suspect Tate has thought of that and possibly tried cleaning up the mess. However, if Tate has tried that and no change was seen, then it does appear the audio IC chip is dragging down the 12VDC supply which is affecting not only the IF UNIT's Q29 but also other circuits in transmit plus I also suspect receive circuits as well. Of course Tate can answer whether he attempted cleaning up the mess from a previous owner.

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Mike
W5RKL

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> > > [Non-text portions of this message have been removed]
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>

20833. RE: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's Back!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-06 23:32:01 UTC
From: Tate Antrim
Topic: 20584 Message: 20833

Hey everyone.

I'm going to get a replacement AF board and pop that in for now. I agree with the comment that this is pulling the signal lines downstream way down. It acts like switching it to usb and no drive signal.that's what got me to thinking that there was something in the signal path that was sensitive to heat but really wasn't a relay issue. Once the cathode resistors were replaced and I had concrete proof that the IP was now "correct" and the suggestion to look at SG voltage yielded a very solid level between RX and TX (not to mention a couple of local hams offering suggestions on 160m last night). I fired it up and said to myself that I'm not going to let this girl go wither on a shelf but figure out what this problem is.

When I was an avionics bench tech (many years ago) we had freezie stuff in a can and I remembered how helpful that was in determining where things were having issues that canned air came to mind.giving a blast of that can frost the circuitry. One blast and it popped right up but instantly went down.

So now I've got a new board on the way and I'll get that component and replace it on my old board then store that one away as a spare. In the meantime I just want to get my favorite girl back on the air!!!!

But really, thanks to everyone for their suggestions. Now to get a sweep signal generator and a spectrum analyzer and maybe I can start a new career.well.anyways.

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
Sent: Monday, April 06, 2009 2:53 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's Back!

Hello Daniel,

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<mailto:TS-520_820_530_830%40yahoogroups.com>
<TS-520_820_530_830%40yahoogroups.com>,
> > "Tate Antrim" <kd8hja@> wrote:
> > >
> > > Ah hah!!!!
> > >
> > >
> > >
> > > SG voltage is perfect at all times (including TUNE).
> > >
> > >
> > >
> > > Very tricky. Turns out it seems to be the big audio IC on the AF
board.
> > > Letting the rig run for a couple of hours it will start to exhibit the
> > > problem of delayed response on output finally dropping down to
nothing.
> > My
> > > gut told me that something on that board is causing a problem. I ruled
> > out
> > > the PLL and such because it was displaying the correct frequency and
> > problem
> > > is on all bands and the display is rock solid. But what I noticed is

that
> > > plate current drops to 60mA in CW when you hit send.bingo.acts just
like
> > > USB/LSB when you hit Send and there's no audio to excite it.
> > >
> > >
> > >
> > > I put my finger on the aluminum around the AF board and it seemed
> > > inordinately "warm" for just sitting there running. Flipping the
switch
> > to
> > > send would seem to increase the overall temperature. So I got out a
can
> > of
> > > canned air and blasted components around the area where it seemed a
bit
> > warm
> > > and all of a sudden output jumped up to 100w instantly. Letting off
the
> > > cold air and output drops back to 0W.cold air on 100w out. Cold air
> > off.0W.
> > > Wax on, wax off. So I narrowed it down to the big IC.
> > >
> > >
> > >
> > > I noticed the other day when I have the AF board out that it looked
like
> > > either someone at some point replaced the chip or tried to resolder it
-
> > > either way it didn't look right. But it just didn't make the
connection
> > in
> > > my head.
> > >
> > >
> > >
> > > So I think for now I'll try to get another AF board and I should be
back
> > in
> > > biz with the old girl.
> > >
> > >
> > >
> > > Thanks for everyone's help.
> > >
> > >
> > >
> > > From: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
<TS-520_820_530_830%40yahoogroups.com>

> > > [mailto:TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
<TS-520_820_530_830%40yahoogroups.com>]
> > On Behalf Of w5rkl
> > > Sent: Sunday, April 05, 2009 4:54 PM
> > > To: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
<TS-520_820_530_830%40yahoogroups.com>
> > > Subject: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's
Back!
> > >
> > >
> > >
> > > Tate,
> > >
> > > Check the voltage on the final amplifier's "SG" pin connection. If the
> > "SG"
> > > voltage is unstable check resistors R15 and R16, both 56K, on the
> > Rectifier
> > > Unit. You also might check RL1 on the Rectifier Unit. It is possible
the
> > > contacts are dirty.
> > >
> > > 73
> > > Mike
> > > W5RKL
> > >
> > >
> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
> >
> >
> >
> >
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

20834. Re: [TS-520_820_530_830] Re: Strange issue with the carrier controll

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-07 00:41:28 UTC
From: Christopher Maness
Topic: 20746 Message: 20834

w5rkl wrote:
> The procedures for adjusting the carrier null are contained in the TS-520S service manual on page 50 under the section titled "BALANCE MODULATOR AND CARRIER ADJUSTMENT".
Thanks for your replies. I noticed there is a similar (but simpler) procedure in the owner's manual (Pg. 39 6.8). The only test equipment I own is a DVM, and Oscilloscope. There are probably fellows in my ham club that have more test equipment if the procedure detailed in the service manual is more desirable.

How should I proceed?

Thanks,
Chris KQ6UP

20835. New Twins Photos

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-07 01:57:12 UTC
From: Dale Parfitt
Topic: 20835 Message: 20835

I have just uploaded a photo of my 599D twins and also some photos of
a fan mod for the T-599D. The stock fan moves precious little air over the 6146's. The top of the cabinet gets very warm even when not making RF.
I machined a 1/8" thick aluminum manifold that covers the existing fan opening and allows for an 80mm 110VAC computer style fan to be attached to the manifold. The new manifold is attached to the 599D rear apron with stainless metric flat head screws- using the existing tapped holes (4) from the old fan enclosure. The new 80mm fan then attaches to the manifold with (4) stainless 4-40 X 5/16" socket head cap screws and flatwashers into the tapped holes of the manifold. The original Kenwood plug is removed from the old fan and soldered to the new fan. Now, the top cover stays at ambient room temp - absolutely no detectable heat build up. The new fan is oriented to exhaust air from the P.A. compartment. All the original parts are boxed and saved. No new holes or permanent changes are required to the T-599D

73,

Dale W4OP

20836. Re: [TS-520_820_530_830] New Twins Photos

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-07 02:29:16 UTC
From: Lou Blasco
Topic: 20835 Message: 20836

Dale,

Has there been an increase in fan noise? Those little fans create a
lot of noise compared to the Kenwood fans I've heard.

Lou
VK3ALB

At 11:57 07/04/2009, you wrote:
>I have just uploaded a photo of my 599D twins and also some photos of
>a fan mod for the T-599D. The stock fan moves precious little air
>over the 6146's. The top of the cabinet gets very warm even when
>not making RF.
>I machined a 1/8" thick aluminum manifold that covers the existing
>fan opening and allows for an 80mm 110VAC computer style fan to be
>attached to the manifold. The new manifold is attached to the 599D
>rear apron with stainless metric flat head screws- using the
>existing tapped holes (4) from the old fan enclosure. The new 80mm
>fan then attaches to the manifold with (4) stainless 4-40 X 5/16"
>socket head cap screws and flatwashers into the tapped holes of the
>manifold. The original Kenwood plug is removed from the old fan and
>soldered to the new fan. Now, the top cover stays at ambient room
>temp - absolutely no detectable heat build up. The new fan is
>oriented to exhaust air from the P.A. compartment. All the original
>parts are boxed and saved. No new holes or permanent changes are
>required to the T-599D
>
>73,
>
>Dale W4OP

20837. New Twins Photos

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-07 02:47:24 UTC
From: Dale Parfitt
Topic: 20835 Message: 20837

I have just uploaded a photo of my 599D twins and also some photos of
a fan mod for the T-599D. The stock fan moves precious little air over the 6146's. The top of the cabinet gets very warm even when not making RF.
I machined a 1/8" thick aluminum manifold that covers the existing fan opening and allows for an 80mm 110VAC computer style fan to be attached to the manifold. The new manifold is attached to the 599D rear apron with stainless metric flat head screws- using the existing tapped holes (4) from the old fan enclosure. The new 80mm fan then attaches to the manifold with (4) stainless 4-40 X 5/16" socket head cap screws and flatwashers into the tapped holes of the manifold. The original Kenwood plug is removed from the old fan and soldered to the new fan. Now, the top cover stays at ambient room temp - absolutely no detectable heat build up. The new fan is oriented to exhaust air from the P.A. compartment. All the original parts are boxed and saved. No new holes or permanent changes are required to the T-599D

73,

Dale W4OP

20838. Re: New Twins Photos

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-07 02:50:35 UTC
From: Dale Parfitt
Topic: 20835 Message: 20838

--- In TS-520_820_530_830@yahoogroups.com, Lou Blasco <radio@...> wrote:
>
> Dale,
>
> Has there been an increase in fan noise? Those little fans create a
> lot of noise compared to the Kenwood fans I've heard.
>
> Lou
> VK3ALB
>
Hi Lou,
I used a ball bearing fan and I can hear the fan noise if the RX volume is off or Standby- but with any RX audio at all, it masks the fan noise entirely. Just a bit louder than the stock fan.

Dale W4OP

20839. Re: [TS-520_820_530_830] Re: Strange issue with the carrier controll

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-07 11:17:02 UTC
From: W5RKL
Topic: 20746 Message: 20839

Hello Chris,

The carrier null procedure in either manual accomplishes the same thing. The service manual states to use a VTVM with an RF Probe connected to the 520's antenna connector (center pin of the rear SO-239) where the operator's manual uses the 520's RF meter position. Either method will work. However, a more accurate method is to use a separate receiver tuned to the same frequency and sideband(s) the 520 is.

When using a separate receiver, DO NOT connect the separate receiver to the 520!! Doing so can damage the separate receiver.

First, tune the 520 into a dummy load for maximum output as outlined in the manual's operating section. Then tune the separate receiver to the same frequency and mode as the 520. Place the 520 in USB, or LSB, as stated in the manual, set the MIC gain completely counter clockwise (minimum MIC gain setting), key the 520 into a dummy load with the SEND switch and adjust TC1 and VR2 on the 520's GENERATOR UNIT for the lowest S meter reading on the separate receiver. Switch sidebands and perform the adjustments again. As stated in the manuals, you will have to alternate between sidebands and adjust TC1 and VR2 a number of times to obtain the best carrier null.

I use the separate receiver method on all sideband transmitter carrier null adjustments I make. Whether you use the manuals methods or a separate receiver method is up to you. The key is to adjust VR2 and TC1 on the GENERATOR UNIT in the 520 for the lowest carrier output in USB and LSB.

73
Mike
W5RKL

--- On Mon, 4/6/09, Christopher Maness <chris@chrismaness.com> wrote:
From: Christopher Maness <chris@...>
Subject: Re: [TS-520_820_530_830] Re: Strange issue with the carrier controll
To: w5rkl@...
Cc: TS-520_820_530_830@yahoogroups.com
Date: Monday, April 6, 2009, 7:41 PM

w5rkl wrote:
> The procedures for adjusting the carrier null are contained in the TS-520S service manual on page 50 under the section titled "BALANCE MODULATOR AND CARRIER ADJUSTMENT".
Thanks for your replies. I noticed there is a similar (but simpler) procedure in the owner's manual (Pg. 39 6.8). The only test equipment I own is a DVM, and Oscilloscope. There are probably fellows in my ham club that have more test equipment if the procedure detailed in the service manual is more desirable.

How should I proceed?

Thanks,
Chris KQ6UP

[Non-text portions of this message have been removed]

20840. TS-520 Casualty

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-07 11:17:09 UTC
From: Jojo Vicencio DV1VHY
Topic: 20840 Message: 20840

While tuning the TS-520, the following conditions were observed:

a) At the IP position and the mode switch is in LSB the meter reading is approx at 60 ma.

b) At the ALC position and the mode Switch is in the tune position the meter would peak when the send switch is energized but would immediately go to zero. No response on the meter when Drive knob is turned.

c) At the RF position and mode is at CW, when the Send switch is energized the meter would slowly decrease in value after peaking on both the Load and Plate knobs.

I have shut down the rig.

Pls advise what these conditions are telling me.

73,

jojo

[Non-text portions of this message have been removed]

20841. Re: TS-520 Casualty

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-07 13:11:51 UTC
From: w5rkl
Topic: 20840 Message: 20841

Hello Jojo,

From your description it appears the driver tube may be failing.

The 60ma IP meter reading is the transmitter's no RF drive signal idling current in the final tubes. This is the correct idling current required for the 520's Class AB1 final amplifier setting. If the 60ma idling current holds steady then it's quite possible the final tubes are OK. Therefore, I recommend replacing the driver tube (12BY7) first.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Jojo Vicencio DV1VHY <jojo@...> wrote:
>
> While tuning the TS-520, the following conditions were observed:
>
> a) At the IP position and the mode switch is in LSB the meter reading is approx at 60 ma.
>
> b) At the ALC position and the mode Switch is in the tune position the meter would peak when the send switch is energized but would immediately go to zero. No response on the meter when Drive knob is turned.
>
> c) At the RF position and mode is at CW, when the Send switch is energized the meter would slowly decrease in value after peaking on both the Load and Plate knobs.
>
> I have shut down the rig.
>
> Pls advise what these conditions are telling me.
>
> 73,
>
> jojo
>
>
> [Non-text portions of this message have been removed]
>

20842. Re: [TS-520_820_530_830] Re: TS-520 Casualty

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-07 13:21:18 UTC
From: Jojo Vicencio DV1VHY
Topic: 20840 Message: 20842

Thank you very much Mike. Appreciate it. Will break out the spare driver tubes. I had to learn tuning the rig so that might have taken a toll on them.

73,

jojo

--- On Tue, 4/7/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: TS-520 Casualty
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, April 7, 2009, 9:11 PM

Hello Jojo,

From your description it appears the driver tube may be failing.

The 60ma IP meter reading is the transmitter' s no RF drive signal idling current in the final tubes. This is the correct idling current required for the 520's Class AB1 final amplifier setting. If the 60ma idling current holds steady then it's quite possible the final tubes are OK. Therefore, I recommend replacing the driver tube (12BY7) first.

73

Mike

W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, Jojo Vicencio DV1VHY <jojo@...> wrote:

>

> While tuning the TS-520, the following conditions were observed:

>

> a) At the IP position and the mode switch is in LSB the meter reading is approx at 60 ma.

>

> b) At the ALC position and the mode Switch is in the tune position the meter would peak when the send switch is energized but would immediately go to zero. No response on the meter when Drive knob is turned.

>

> c) At the RF position and mode is at CW, when the Send switch is energized the meter would slowly decrease in value after peaking on both the Load and Plate knobs.

>

> I have shut down the rig.

>

> Pls advise what these conditions are telling me.

>

> 73,

>

> jojo

>

>

> [Non-text portions of this message have been removed]

>

[Non-text portions of this message have been removed]

20843. Re: TS-520 Casualty

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-07 13:38:00 UTC
From: w5rkl
Topic: 20840 Message: 20843

You are welcome Jojo. While it's possible that excessive key down time spent tuning the radio may have affected the tubes to some degree, age also plays a roll in vacuum tube life span.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Jojo Vicencio DV1VHY <jojo@...> wrote:
>
> Thank you very much Mike. Appreciate it. Will break out the spare driver tubes. I had to learn tuning the rig so that might have taken a toll on them.
>
> 73,
>
> jojo
>
> --- On Tue, 4/7/09, w5rkl <w5rkl@...> wrote:
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: TS-520 Casualty
> To: TS-520_820_530_830@yahoogroups.com
> Date: Tuesday, April 7, 2009, 9:11 PM
>
>
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>
> Hello Jojo,
>
>
>
> From your description it appears the driver tube may be failing.
>
>
>
> The 60ma IP meter reading is the transmitter' s no RF drive signal idling current in the final tubes. This is the correct idling current required for the 520's Class AB1 final

amplifier setting. If the 60ma idling current holds steady then it's quite possible the final tubes are OK. Therefore, I recommend replacing the driver tube (12BY7) first.
>
>
>
> 73
>
> Mike
>
> W5RKL
>
>
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Jojo Vicencio DV1VHY <jojo@> wrote:
>
> >
>
> > While tuning the TS-520, the following conditions were observed:
>
> >
>
> > a) At the IP position and the mode switch is in LSB the meter reading is approx at 60 ma.
>
> >
>
> > b) At the ALC position and the mode Switch is in the tune position the meter would peak when the send switch is energized but would immediately go to zero. No response on the meter when Drive knob is turned.
>
> >
>
> > c) At the RF position and mode is at CW, when the Send switch is energized the meter would slowly decrease in value after peaking on both the Load and Plate knobs.
>
> >
>
> > I have shut down the rig.
>
> >
>
> > Pls advise what these conditions are telling me.
>
> >
>
> > 73,
>
> >
>
> > jojo
>

> >
>
> >
>
> > [Non-text portions of this message have been removed]
>
> >
>
>
>

20844. ts-520 low 60 millage amps

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-07 04:25:07 UTC
From: n9xvt
Topic: 20844 Message: 20844

hello again,,
a friend of mine just acquired a new to him ts-520s
during check out/tune up he discovered that the ip wont get 60 mills
in an effort to give him help,,where should we start looking?
recieve seems ok but when trying to tune up,,he gets stopped at step one by the not being able to get 60 mills,,any help??
did try adjusting the bias and no dice,,

20845. Re: [TS-520_820_530_830] Shure 444D and TS-520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-07 15:40:38 UTC
From: achappman
Topic: 20814 Message: 20845

One sure way to tell which wires are the PTT put your ohm meter on two wires and press the PTT button. Ground (shield) is one of them depending on how the mic was wired. Your meter will show continuity when the button is pressed and open when its not. That leaves you with the other two wires that have tobe the mic itself.
Arnie
KD6CZ

--- On Mon, 4/6/09, Gordon JC Pearce MM3YEQ <gordon@...> wrote:

From: Gordon JC Pearce MM3YEQ <gordon@gjcp.net>
Subject: Re: [TS-520_820_530_830] Shure 444D and TS-520S
To: TS-520_820_530_830@yahoogroups.com
Date: Monday, April 6, 2009, 12:45 AM

On Mon, 2009-04-06 at 02:53 +0000, Christopher Maness wrote:

> I just recently purchased an ol' 520s and had a 444d in the junk box.

> I believe it is the stock wire. The Red and GND is the mic??

>

> I see that the black and white is the PTT.

>

> When I hook it up as such, I get very tiny deflection of my power

> meeter with the mic gain all the way up and the processor on. I am

> currently able to get close to 100W out on CW, so I don't necessarily

> think that it is tube issue.

I was on the Internet and I found this... </clarkson>

http://www.qsl. net/yv5grb/ shure444dmanual. htm

This seems to suggest that there's an impedance switch on the bottom,

which should be set to "high". It's always possible that the mike is

set to high impedance and the transformer is knackered, in which case

you'll want a preamp.

Gordon MM3YEQ

[Non-text portions of this message have been removed]

20846. Re: [TS-520_820_530_830] TS-520 Casualty

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-07 12:41:24 UTC
From: J HARRISON
Topic: 20840 Message: 20846

Try a new 12by7a driver valve. I

--- On Tue, 7/4/09, Jojo Vicencio DV1VHY <jojo@...> wrote:

From: Jojo Vicencio DV1VHY <jojo@...>
Subject: [TS-520_820_530_830] TS-520 Casualty
To: "Max Santos" <ac5py@yahoo.com>, "TS520 Group" <TS-520_820_530_830@yahoogroups.com>
Date: Tuesday, 7 April, 2009, 12:17 PM

While tuning the TS-520, the following conditions were observed:

a) At the IP position and the mode switch is in LSB the meter reading is approx at 60 ma.

b) At the ALC position and the mode Switch is in the tune position the meter would peak when the send switch is energized but would immediately go to zero. No response on the meter when Drive knob is turned.

c) At the RF position and mode is at CW, when the Send switch is energized the meter would slowly decrease in value after peaking on both the Load and Plate knobs.

I have shut down the rig.

Pls advise what these conditions are telling me.

73,

jojo

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

20847. Re: [TS-520_820_530_830] Shure 444D and TS-520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-07 16:56:41 UTC
From: Chris Maness
Topic: 20814 Message: 20847

On Tue, Apr 7, 2009 at 8:40 AM, achappman <achappman@...> wrote:
> One sure way to tell which wires are the PTT put your ohm meter on two wires and press the PTT button. Ground (shield) is one of them depending on how the mic was wired. Your meter will show continuity when the button is pressed and open when its not. That leaves you with the other two wires that have tobe the mic itself.
> Arnie
> KD6CZ

Yep, I did that one. It seems to be OK in that regard.

Chris KQ6UP

20848. Re: ts-520 low 60 millage amps

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-07 18:02:09 UTC
From: w5rkl
Topic: 20844 Message: 20848

What is the 520's HV meter showing?

The 520 must be keyed to display the HV.

Set the meter switch to HV, set the MODE switch to USB or LSB, flip the SEND switch up and read the HV on the red x100 scale.

Once read, flip the SEND switch down to unkey the 520.

Typical HV meter readings are 850VDC with the transmitter keyed but no output, just final idling current (60ma).

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "n9xvt" <n9xvt@...> wrote:
>
> hello again,,
> a friend of mine just acquired a new to him ts-520s
> during check out/tune up he discovered that the ip wont get 60 mills
> in an effort to give him help,,where should we start looking?
> recieve seems ok but when trying to tune up,,he gets stopped at step one by the not being able to get 60 mills,,any help??
> did try adjusting the bias and no dice,,
>

20849. Re: [TS-520_820_530_830] Re: ts-520 low 60 millage amps

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-07 20:29:02 UTC
From: Dave Gmail
Topic: 20844 Message: 20849

hey mike, dont think he knows where the adjust knob is, at least I think
that is what he was asking

----- Original Message -----
From: "w5rkl" <w5rkl@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, April 07, 2009 2:02 PM
Subject: [TS-520_820_530_830] Re: ts-520 low 60 millage amps

> What is the 520's HV meter showing?
>
> The 520 must be keyed to display the HV.
>
> Set the meter switch to HV, set the MODE switch to USB or LSB, flip the
> SEND switch up and read the HV on the red x100 scale.
>
> Once read, flip the SEND switch down to unkey the 520.
>
> Typical HV meter readings are 850VDC with the transmitter keyed but no
> output, just final idling current (60ma).
>
>
>
>
> 73
> Mike
> W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "n9xvt" <n9xvt@...> wrote:
>>
>> hello again,,
>> a friend of mine just acquired a new to him ts-520s
>> during check out/tune up he discovered that the ip wont get 60 mills
>> in an effort to give him help,,where should we start looking?
>> recieve seems ok but when trying to tune up,,he gets stopped at step one
>> by the not being able to get 60 mills,,any help??
>> did try adjusting the bias and no dice,,
>>
>
>
>
>
> ------------------------------------
>

> Yahoo! Groups Links
>
>
>

20850. Re: ts-520 low 60 millage amps

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-07 20:01:19 UTC
From: n9xvt
Topic: 20844 Message: 20850

high volt is right @900,,on key down
--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> What is the 520's HV meter showing?
>
> The 520 must be keyed to display the HV.
>
> Set the meter switch to HV, set the MODE switch to USB or LSB, flip the SEND switch up and read the HV on the red x100 scale.
>
> Once read, flip the SEND switch down to unkey the 520.
>
> Typical HV meter readings are 850VDC with the transmitter keyed but no output, just final idling current (60ma).
>
>
>
>
> 73
> Mike
> W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "n9xvt" <n9xvt@> wrote:
> >
> > hello again,,
> > a friend of mine just acquired a new to him ts-520s
> > during check out/tune up he discovered that the ip wont get 60 mills
> > in an effort to give him help,,where should we start looking?
> > recieve seems ok but when trying to tune up,,he gets stopped at step one by the not being able to get 60 mills,,any help??
> > did try adjusting the bias and no dice,,
> >
>

20851. Re: ts-520 low 60 millage amps

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-07 21:28:28 UTC
From: w5rkl
Topic: 20844 Message: 20851

Hello Larry,

Have you perform the final amplifier's bias setting as discussed on page 21 of the 520's operator's manual first? If not then I recommend performing that step "first" before attempting to tune up the 520.

I assumed you had performer that step since you were at the tune up stage but I may have thought wrong.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "n9xvt" <n9xvt@...> wrote:
>
> high volt is right @900,,on key down
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > What is the 520's HV meter showing?
> >
> > The 520 must be keyed to display the HV.
> >
> > Set the meter switch to HV, set the MODE switch to USB or LSB, flip the SEND switch up and read the HV on the red x100 scale.
> >
> > Once read, flip the SEND switch down to unkey the 520.
> >
> > Typical HV meter readings are 850VDC with the transmitter keyed but no output, just final idling current (60ma).
> >
> >
> >
> >
> > 73
> > Mike
> > W5RKL
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "n9xvt" <n9xvt@> wrote:
> > >
> > > hello again,,
> > > a friend of mine just acquired a new to him ts-520s
> > > during check out/tune up he discovered that the ip wont get 60 mills
> > > in an effort to give him help,,where should we start looking?
> > > recieve seems ok but when trying to tune up,,he gets stopped at step one by the not being able to get 60 mills,,any help??

> > > did try adjusting the bias and no dice,,
> > >
> >
>

20852. Re: [TS-520_820_530_830] TS-520 Casualty

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-07 21:29:29 UTC
From: Jojo Vicencio DV1VHY
Topic: 20840 Message: 20852

Thank you Jim. Is there a difference bettween the 12by7 and the 12by7a?

73,

jojo

--- On Tue, 4/7/09, J HARRISON <jameshharrison@...> wrote:

From: J HARRISON <jameshharrison@...>
Subject: Re: [TS-520_820_530_830] TS-520 Casualty
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, April 7, 2009, 8:41 PM

Try a new 12by7a driver valve. I

--- On Tue, 7/4/09, Jojo Vicencio DV1VHY <jojo@vicencio. net> wrote:

From: Jojo Vicencio DV1VHY <jojo@vicencio. net>

Subject: [TS-520_820_ 530_830] TS-520 Casualty

To: "Max Santos" <ac5py@yahoo. com>, "TS520 Group" <TS-520_820_530_ 830@yahoogroups. com>

Date: Tuesday, 7 April, 2009, 12:17 PM

While tuning the TS-520, the following conditions were observed:

a) At the IP position and the mode switch is in LSB the meter reading is approx at 60 ma.

b) At the ALC position and the mode Switch is in the tune position the meter would peak when the send switch is energized but would immediately go to zero. No response on the meter when Drive knob is turned.

c) At the RF position and mode is at CW, when the Send switch is energized the meter would slowly decrease in value after peaking on both the Load and Plate knobs.

I have shut down the rig.

Pls advise what these conditions are telling me.

73,

jojo

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[Non-text portions of this message have been removed]

20853. Re: ts-520 low 60 millage amps

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-07 21:31:19 UTC
From: w5rkl
Topic: 20844 Message: 20853

Hi Dave,

That could be the problem but we'll see what Larry's response is, I just asked if he performed that step. I thought he performed that step since he was at the tune up stage but I could have been wrong.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Dave Gmail" <ve3wej@...> wrote:
>
> hey mike, dont think he knows where the adjust knob is, at least I think
> that is what he was asking
>
> ----- Original Message -----
> From: "w5rkl" <w5rkl@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Tuesday, April 07, 2009 2:02 PM
> Subject: [TS-520_820_530_830] Re: ts-520 low 60 millage amps
>
>
> > What is the 520's HV meter showing?
> >
> > The 520 must be keyed to display the HV.
> >
> > Set the meter switch to HV, set the MODE switch to USB or LSB, flip the
> > SEND switch up and read the HV on the red x100 scale.
> >
> > Once read, flip the SEND switch down to unkey the 520.
> >
> > Typical HV meter readings are 850VDC with the transmitter keyed but no
> > output, just final idling current (60ma).
> >
> >
> >
> >
> >
> > 73
> > Mike
> > W5RKL
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "n9xvt" <n9xvt@> wrote:
> >>
> >> hello again,,
> >> a friend of mine just acquired a new to him ts-520s

> >> during check out/tune up he discovered that the ip wont get 60 mills
> >> in an effort to give him help,,where should we start looking?
> >> recieve seems ok but when trying to tune up,,he gets stopped at step one
> >> by the not being able to get 60 mills,,any help??
> >> did try adjusting the bias and no dice,,
> >>
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> > Yahoo! Groups Links
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20854. Re: TS-520 Casualty

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-07 21:32:12 UTC
From: w5rkl
Topic: 20840 Message: 20854

Hello Jojo,

Nothing that will be of concern. A 12BY7A will work fine in place of a 12BY7.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Jojo Vicencio DV1VHY <jojo@...> wrote:
>
> Thank you Jim. Is there a difference bettween the 12by7 and the 12by7a?
>
> 73,
>
> jojo
>
> --- On Tue, 4/7/09, J HARRISON <jameshharrison@...> wrote:
>
> From: J HARRISON <jameshharrison@...>
> Subject: Re: [TS-520_820_530_830] TS-520 Casualty
> To: TS-520_820_530_830@yahoogroups.com
> Date: Tuesday, April 7, 2009, 8:41 PM
>
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>
> Try a new 12by7a driver valve. I
>
>
>
> --- On Tue, 7/4/09, Jojo Vicencio DV1VHY <jojo@vicencio. net> wrote:
>
>
>
> From: Jojo Vicencio DV1VHY <jojo@vicencio. net>
>
> Subject: [TS-520_820_ 530_830] TS-520 Casualty
>

> To: "Max Santos" <ac5py@yahoo. com>, "TS520 Group" <TS-520_820_530_ 830@yahoogroups.
com>
>
> Date: Tuesday, 7 April, 2009, 12:17 PM
>
>
>
> While tuning the TS-520, the following conditions were observed:
>
>
>
> a) At the IP position and the mode switch is in LSB the meter reading is approx at 60 ma.
>
>
>
> b) At the ALC position and the mode Switch is in the tune position the meter would peak
when the send switch is energized but would immediately go to zero. No response on the
meter when Drive knob is turned.
>
>
>
> c) At the RF position and mode is at CW, when the Send switch is energized the meter
would slowly decrease in value after peaking on both the Load and Plate knobs.
>
>
>
> I have shut down the rig.
>
>
>
> Pls advise what these conditions are telling me.
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> 73,
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> jojo
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20855. Re: ts-520 low 60 millage amps

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-07 22:11:12 UTC
From: n9xvt
Topic: 20844 Message: 20855

have removed the side cover and the bias control has little effect and cant get it to 60
--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello Larry,
>
> Have you perform the final amplifier's bias setting as discussed on page 21 of the 520's operator's manual first? If not then I recommend performing that step "first" before attempting to tune up the 520.
>
> I assumed you had performer that step since you were at the tune up stage but I may have thought wrong.
>
> 73
> Mike
> W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "n9xvt" <n9xvt@> wrote:
> >
> > high volt is right @900,,on key down
> > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > >
> > > What is the 520's HV meter showing?
> > >
> > > The 520 must be keyed to display the HV.
> > >
> > > Set the meter switch to HV, set the MODE switch to USB or LSB, flip the SEND switch up and read the HV on the red x100 scale.
> > >
> > > Once read, flip the SEND switch down to unkey the 520.
> > >
> > > Typical HV meter readings are 850VDC with the transmitter keyed but no output, just final idling current (60ma).
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> > >
> > >
> > >
> > > 73
> > > Mike
> > > W5RKL
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "n9xvt" <n9xvt@> wrote:
> > > >
> > > > hello again,,

> > > > a friend of mine just acquired a new to him ts-520s
> > > > during check out/tune up he discovered that the ip wont get 60 mills
> > > > in an effort to give him help,,where should we start looking?
> > > > recieve seems ok but when trying to tune up,,he gets stopped at step one by the not being able to get 60 mills,,any help??
> > > > did try adjusting the bias and no dice,,
> > > >
> > >
> >
>

20856. R-599D AGC Overshoot

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-07 22:34:29 UTC
From: Dale Parfitt
Topic: 20856 Message: 20856

Has anyone here had experience with this? I have noticed that a strong CW or SSB station will almost mute the RX when they first start talking (or at the beginning of a character). Although I have yet to put my scope on the AGC line- it certainly appears that it is overshooting on attack.
Any comments before I dig in?

Tnx,

Dale W4OP

20857. TS-830s transmit switch left on.... ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-08 00:07:15 UTC
From: mwusmm
Topic: 20857 Message: 20857

Hello....Have TS-830s set up to receive only, with long wire plugged into antenna connector (still setting up my shack).
While setting up to listen to the 3.925 net...noticed the transmit switch was set to transmit, instead of receive.
Switch was in transmit position for approximately 5 minutes....

Heater switch was off / Mic & Car were turned fully down.
Did I damage anything?

thanks....!

20858. Re: [TS-520_820_530_830] TS-830s transmit switch left on.... ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-08 01:18:14 UTC
From: Dave Gmail
Topic: 20857 Message: 20858

with no heater on, i dont beleive so. have you tried transmitting, if it
works then you did NOT damage anything

----- Original Message -----
From: "mwusmm" <mwusmm@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, April 07, 2009 8:07 PM
Subject: [TS-520_820_530_830] TS-830s transmit switch left on.... ?

> Hello....Have TS-830s set up to receive only, with long wire plugged into
> antenna connector (still setting up my shack).
> While setting up to listen to the 3.925 net...noticed the transmit switch
> was set to transmit, instead of receive.
> Switch was in transmit position for approximately 5 minutes....
>
> Heater switch was off / Mic & Car were turned fully down.
> Did I damage anything?
>
> thanks....!
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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20859. R-599D AGC Overshoot

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-08 01:24:16 UTC
From: Dale Parfitt
Topic: 20856 Message: 20859

Has anyone here had experience with this? I have noticed that a strong CW or SSB station will almost mute the RX when they first start talking (or at the beginning of a character). Although I have yet to put my scope on the AGC line- it certainly appears that it is overshooting on attack.
Any comments before I dig in?

Tnx,

Dale W4OP

20860. Re: [TS-520_820_530_830] TS-830s transmit switch left on.... ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-08 01:26:24 UTC
From: Marucs Rodgers Sr.
Topic: 20857 Message: 20860

There should not have been any tx with the heater switch off, so no harm to the rig that i can think of.

--- On Tue, 4/7/09, mwusmm <mwusmm@yahoo.com> wrote:

From: mwusmm <mwusmm@...>
Subject: [TS-520_820_530_830] TS-830s transmit switch left on.... ?
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, April 7, 2009, 8:07 PM

Hello....Have TS-830s set up to receive only, with long wire plugged into antenna connector (still setting up my shack).
While setting up to listen to the 3.925 net...noticed the transmit switch was set to transmit, instead of receive.
Switch was in transmit position for approximately 5 minutes....

Heater switch was off / Mic & Car were turned fully down.
Did I damage anything?

thanks....!

Yahoo! Groups Links

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20861. Re: [TS-520_820_530_830] R-599D AGC Overshoot

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-08 12:00:19 UTC
From: dennis hatch
Topic: 20856 Message: 20861

I have had a similar experience and found that it was a dirty AGC time constant potentiometer. After cleaning the poteniometers in the AGC circuit and setting things "by ear"....it worked OK. The Kenwood service manual did not address the AGC set up, or alignment. Does anyone have that info???

73's

Dennis, WA0WAB

--- On Tue, 4/7/09, Dale Parfitt <parinc1@verizon.net> wrote:

From: Dale Parfitt <parinc1@...>
Subject: [TS-520_820_530_830] R-599D AGC Overshoot
To: TS-520_820_530_830@...m
Date: Tuesday, April 7, 2009, 5:34 PM

Has anyone here had experience with this? I have noticed that a strong CW or SSB station will almost mute the RX when they first start talking (or at the beginning of a character). Although I have yet to put my scope on the AGC line- it certainly appears that it is overshooting on attack.
Any comments before I dig in?

Tnx,

Dale W4OP

Yahoo! Groups Links

[Non-text portions of this message have been removed]

20862. Re: [TS-520_820_530_830] TS-830s transmit switch left on.... ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-08 12:53:54 UTC
From: J HARRISON
Topic: 20857 Message: 20862

Without the heater switch in the "on" position the output valves cant draw current so you wont have caused any damage.
Regards
Jim
--- On Wed, 8/4/09, Marucs Rodgers Sr. <kc8pxs618@...> wrote:

From: Marucs Rodgers Sr. <kc8pxs618@...>
Subject: Re: [TS-520_820_530_830] TS-830s transmit switch left on.... ?
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, 8 April, 2009, 2:26 AM

There should not have been any tx with the heater switch off, so no harm to the rig that i can think of.

--- On Tue, 4/7/09, mwusmm <mwusmm@yahoo. com> wrote:

From: mwusmm <mwusmm@yahoo. com>
Subject: [TS-520_820_ 530_830] TS-830s transmit switch left on.... ?
To: TS-520_820_530_ 830@yahoogroups. com
Date: Tuesday, April 7, 2009, 8:07 PM

Hello....Have TS-830s set up to receive only, with long wire plugged into antenna connector (still setting up my shack).
While setting up to listen to the 3.925 net...noticed the transmit switch was set to transmit, instead of receive.
Switch was in transmit position for approximately 5 minutes....

Heater switch was off / Mic & Car were turned fully down.
Did I damage anything?

thanks....!

------------ --------- --------- ------

Yahoo! Groups Links

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[Non-text portions of this message have been removed]

20863. Re: [TS-520_820_530_830] TS-520 Casualty

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-08 12:46:47 UTC
From: J HARRISON
Topic: 20840 Message: 20863

Hello again Jojo,
Hardly any difference in characteristics between 12by7 and 12by7a. But I think the driver in the TS520 is a 12by7a. I have a TS530 but I believe the output stages are a similar design and the fault you describe is indicative of poor emission from the 12by7a. You can get these quite cheap on Ebay.
Regards Jim
G4AGW-- On Tue, 7/4/09, Jojo Vicencio DV1VHY <jojo@...> wrote:

From: Jojo Vicencio DV1VHY <jojo@...>
Subject: Re: [TS-520_820_530_830] TS-520 Casualty
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, 7 April, 2009, 10:29 PM

Thank you Jim. Is there a difference bettween the 12by7 and the 12by7a?

73,

jojo

--- On Tue, 4/7/09, J HARRISON <jameshharrison@ btinternet. com> wrote:

From: J HARRISON <jameshharrison@ btinternet. com>
Subject: Re: [TS-520_820_ 530_830] TS-520 Casualty
To: TS-520_820_530_ 830@yahoogroups. com
Date: Tuesday, April 7, 2009, 8:41 PM

Try a new 12by7a driver valve. I

--- On Tue, 7/4/09, Jojo Vicencio DV1VHY <jojo@vicencio. net> wrote:

From: Jojo Vicencio DV1VHY <jojo@vicencio. net>

Subject: [TS-520_820_ 530_830] TS-520 Casualty

To: "Max Santos" <ac5py@yahoo. com>, "TS520 Group" <TS-520_820_ 530_ 830@yahoogroups. com>

Date: Tuesday, 7 April, 2009, 12:17 PM

While tuning the TS-520, the following conditions were observed:

a) At the IP position and the mode switch is in LSB the meter reading is approx at 60 ma.

b) At the ALC position and the mode Switch is in the tune position the meter would peak when the send switch is energized but would immediately go to zero. No response on the meter when Drive knob is turned.

c) At the RF position and mode is at CW, when the Send switch is energized the meter would slowly decrease in value after peaking on both the Load and Plate knobs.

I have shut down the rig.

Pls advise what these conditions are telling me.

73,

jojo

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[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

20864. Re: TS-830s transmit switch left on.... ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-08 17:14:45 UTC
From: mwusmm
Topic: 20857 Message: 20864

thanks gents..... the heater switch was off, so hopefully the rig is okay. I am still setting up my shack....antenna, ground, etc.
Right now I am just monitoring with the 830....

I also have the SP-230, VFO-230, AT-230, and MC-60.
And I just picked up my General ticket....thanks again, 73.

20865. Re: ts-520 low 60 millage amps

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-08 20:40:55 UTC
From: w5rkl
Topic: 20844 Message: 20865

Afternoon Larry,

Since the bias control does nothing to improve the idling current then I recommend checking the following voltages at the final amplifier tube sockets

1. Screen pin 3 - 258VDC in receive - 231VDC in transmit

2. Grid pin 5 - minus 93VDC receive - minus 52VDC transmit

3. Plate cap - 958VDC receive - 858VDC transmit

It is possible the final tubes are very weak. If you have a spare set, use them. If the final tubes are Japanese S2001s then 6146Bs can be used as replacements.

I also recommend checking each resistor on the HV Unit. The HV Unit is the small PC board on the bottom and just forward of the power transformer.

The voltages in the above steps originate on the Rectifier Unit, the PC board on the bottom and to the left of the power transformer.

Replace any/all components that show signs of overheating/burnt/crack or otherwise physical damage.

Place the 520 upside down with the front panel facing you.

Always use caution when measuring high voltage! NEVER ASSUME the voltage has bleed to zero!! CHECK IT with a volt meter!! Take your time.

Since you didn't specify your repair/technical skills, I'll assume your skills are limited.

If necessary, turn power off to the 520, unplug power cable from wall outlet, discharge filter capacitor to ground using an insulated (NO WOODEN HANDLED!!) handled screw driver or shorting bar, connect volt meter, check for shorts from volt meter positive lead to ground, plug the 520 into the wall outlet then apply power to the 520. Do the reverse when disconnecting the meter leads.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "n9xvt" <n9xvt@...> wrote:
>
> have removed the side cover and the bias control has little effect and cant get it to 60
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
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> > Hello Larry,
> >
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520's operator's manual first? If not then I recommend performing that step "first" before attempting to tune up the 520.
> >
> > I assumed you had performer that step since you were at the tune up stage but I may have thought wrong.
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> > 73
> > Mike
> > W5RKL
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "n9xvt" <n9xvt@> wrote:
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> > > high volt is right @900,,on key down
> > > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > > >
> > > > What is the 520's HV meter showing?
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> > > > The 520 must be keyed to display the HV.
> > > >
> > > > Set the meter switch to HV, set the MODE switch to USB or LSB, flip the SEND switch up and read the HV on the red x100 scale.
> > > >
> > > > Once read, flip the SEND switch down to unkey the 520.
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> > > > Typical HV meter readings are 850VDC with the transmitter keyed but no output, just final idling current (60ma).
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> > > > --- In TS-520_820_530_830@yahoogroups.com, "n9xvt" <n9xvt@> wrote:
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> > > > > hello again,,
> > > > > a friend of mine just acquired a new to him ts-520s
> > > > > during check out/tune up he discovered that the ip wont get 60 mills
> > > > > in an effort to give him help,,where should we start looking?
> > > > > recieve seems ok but when trying to tune up,,he gets stopped at step one by the not being able to get 60 mills,,any help??
> > > > > did try adjusting the bias and no dice,,
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>

20866. Driver in the 520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-09 05:55:43 UTC
From: Michael
Topic: 20866 Message: 20866

Mike,

I have a question about replacing the Driver Tube (12by7a) in the 520S, The shield that covers this tube in this radio has a ground strap connected to it from the base that's on the RF board. Do I have to take the "Load" shaft out and lay the shield and tube assembly down to replace it or is there an easier way.

Thanks
ki0gv
Mike

20867. TS-520S Field Day?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-09 04:02:50 UTC
From: Christopher Maness
Topic: 20867 Message: 20867

Does this rig have good enough dynamic range for contest operation (esp. FD)? I am thinking about using mine for our club's FD.

Chris KQ6UP

20868. Re: 520 Alignment again

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-09 04:30:21 UTC
From: Guy
Topic: 20798 Message: 20868

Hi people, this a great group for Kenwood guru's. I am the owner of this rig & K7NCG has been kind enough to offer his technical support to revive this older Kenwood. I am not sure if this post got passed up, but could someone read it and offer their input if possible? Thanks in advance, K7AAR

--- In TS-520_820_530_830@yahoogroups.com, Jim Fish <k7ncg@...> wrote:

> OK, I've run out of ideas now. I still cannot get this 520 to align on
> 20, 15, or 10 meters.
> While the first two 10 meter crystals have been changed out to work on
> CB, I still want
> to at least get it working on 15 and 20 before springing for new crystals.
>
> So yesterday I really got into it. I removed the Antenna coil unit as
> well as the Mixer
> coil unit. I re-glued loose coils back in place and made sure they had
> all of their
> winding right, wound the same way, and cleaned off some old rubber like glue
> that has been used previoulsy in a poor attempt to repair loose coils.
> I made sure
> that none of the capacitors had been changed. I made sure that the switch
> contacts were clean and working. I even put my L/C meter across the 40 thru
> 10 meter coils which are in series and watched the value change as I
> rotated the
> switch thru its band positions. I made sure I could see changes in
> values when
> I turned the slugs in and out. On 10 meters only one coil caused a
> change. On 15
> meters, two coils could cause a change. On 20 meters, three coils could
> cause a
> change and on 40, all four could cause a change. Just what I expected
> to see.
> The same happened on both boards. I put it all back together and I have the
> same problem. Nothing peaks on 20, 15, or 10.
>
> The hetrodyne crystals are all working great. I can hear them on my station
> receiver and I can see them on the scope. They are all adjusted to 1 turn
> after they start to oscillate per the manual. I see no changes under the RF
> board and near as I can tell, the only mods were the crystal changes.
>
> So what am I over looking? It must be something simple but I've run
> out of things to look for and tests to make.
>
> 73's from a stumped Jim, K7NCG....
>

20869. Re: [TS-520_820_530_830] Driver in the 520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-09 09:43:42 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20866 Message: 20869

On Thu, 2009-04-09 at 05:55 +0000, Michael wrote:
> Mike,
>
> I have a question about replacing the Driver Tube (12by7a) in the
> 520S, The shield that covers this tube in this radio has a ground
> strap connected to it from the base that's on the RF board. Do I have
> to take the "Load" shaft out and lay the shield and tube assembly down
> to replace it or is there an easier way.

On mine, the earth strap is just kind of "sprung" against the shield.
The valve comes out with its shield around it, which you can then slide
off and push the new valve in.

Maybe it's supposed to be more firmly attached, and someone's "had a go"
at mine in the past?

Gordon

20870. Re: [TS-520_820_530_830] Driver in the 520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-09 10:29:36 UTC
From: MARC McINTYRE
Topic: 20866 Message: 20870

Hi Michael and Gordon,

On my TS830M there is a thin metal strip which is attached to the valve base.
This metal strip is roughly 2" long and is placed between the valve and the shield.
The valve is installed with the metal strip running up the side of the valve glass,
the metal shield is the slipped over the valve, keeping the metal strip in between the
valve and the metal shield.This is how the metal strip makes contact with the shield.

Marc.

From: Gordon JC Pearce MM3YEQ <gordon@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, 9 April, 2009 10:43:42
Subject: Re: [TS-520_820_530_830] Driver in the 520S

On Thu, 2009-04-09 at 05:55 +0000, Michael wrote:
> Mike,
>
> I have a question about replacing the Driver Tube (12by7a) in the
> 520S, The shield that covers this tube in this radio has a ground
> strap connected to it from the base that's on the RF board. Do I have
> to take the "Load" shaft out and lay the shield and tube assembly down
> to replace it or is there an easier way.

On mine, the earth strap is just kind of "sprung" against the shield.
The valve comes out with its shield around it, which you can then slide
off and push the new valve in.

Maybe it's supposed to be more firmly attached, and someone's "had a go"
at mine in the past?

Gordon

[Non-text portions of this message have been removed]

20871. Re: [TS-520_820_530_830] Driver in the 520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-09 10:36:00 UTC
From: MARC McINTYRE
Topic: 20866 Message: 20871

Typing Error,
The seventh line of my message should read " the metal shield is then slipped over the valve".

Marc.

From: MARC McINTYRE <kenquad@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, 9 April, 2009 11:29:36
Subject: Re: [TS-520_820_530_830] Driver in the 520S

Hi Michael and Gordon,

On my TS830M there is a thin metal strip which is attached to the valve base.
This metal strip is roughly 2" long and is placed between the valve and the shield.
The valve is installed with the metal strip running up the side of the valve glass,
the metal shield is the slipped over the valve, keeping the metal strip in between the valve and the metal shield.This is how the metal strip makes contact with the shield.

Marc.

From: Gordon JC Pearce MM3YEQ <gordon@gjcp. net>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Thursday, 9 April, 2009 10:43:42
Subject: Re: [TS-520_820_ 530_830] Driver in the 520S

On Thu, 2009-04-09 at 05:55 +0000, Michael wrote:
> Mike,
>
> I have a question about replacing the Driver Tube (12by7a) in the
> 520S, The shield that covers this tube in this radio has a ground
> strap connected to it from the base that's on the RF board. Do I have
> to take the "Load" shaft out and lay the shield and tube assembly down
> to replace it or is there an easier way.

On mine, the earth strap is just kind of "sprung" against the shield.
The valve comes out with its shield around it, which you can then slide
off and push the new valve in.

Maybe it's supposed to be more firmly attached, and someone's "had a go"
at mine in the past?

Gordon

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

20872. Re: [TS-520_820_530_830] Driver in the 520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-09 11:49:32 UTC
From: Gordon JC Pearce
Topic: 20866 Message: 20872

MARC McINTYRE wrote:
> Hi Michael and Gordon,
>
> On my TS830M there is a thin metal strip which is attached to the valve base.
> This metal strip is roughly 2" long and is placed between the valve and the shield.
> The valve is installed with the metal strip running up the side of the valve glass,
> the metal shield is the slipped over the valve, keeping the metal strip in between the
> valve and the metal shield.This is how the metal strip makes contact with the shield.
>
> Marc.
>

Okay, so I should pop the shield off and put it on *over* the strip then.

Gordon

20873. Re: [TS-520_820_530_830] Driver in the 520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-09 13:16:57 UTC
From: MARC McINTYRE
Topic: 20866 Message: 20873

Gordon,

Yes, slide the shield down over the valve and the strip.

Marc.

From: Gordon JC Pearce <gordon@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, 9 April, 2009 12:49:32
Subject: Re: [TS-520_820_530_830] Driver in the 520S

MARC McINTYRE wrote:
> Hi Michael and Gordon,
>
> On my TS830M there is a thin metal strip which is attached to the valve base.
> This metal strip is roughly 2" long and is placed between the valve and the shield.
> The valve is installed with the metal strip running up the side of the valve glass,
> the metal shield is the slipped over the valve, keeping the metal strip in between the
> valve and the metal shield.This is how the metal strip makes contact with the shield.
>
> Marc.
>

Okay, so I should pop the shield off and put it on *over* the strip then.

Gordon

[Non-text portions of this message have been removed]

20874. Re: [TS-520_820_530_830] Driver in the 520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-09 15:59:54 UTC
From: Dave and Loraine
Topic: 20866 Message: 20874

Bill K0ZL used to recommend leaving the sleeve off.
Mine's been off for years with no problems.
73 Dave f4eyk

20875. Re: Driver in the 520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-09 20:59:30 UTC
From: w5rkl
Topic: 20866 Message: 20875

There is nothing magical or secretive about the "rod" connected to the center of the driver tube socket.

The "rod" provides a ground for the tube shield when the shield is slide over the tube and the rod.

If the rod is missing/broken, sliding the shield over the driver tube has a significantly less shielding effect than if the rod were present.

Shielding tubes has 2 affects:

1. Prevents radiation of signals from the tube itself to surrounding circuits.

2. Prevents tubes from "picking up" signals from surrounding circuits.

I have not experienced any adverse affects during operation, both transmit and receive, with or without the shield over the driver tube. You can make your own decision whether to use the shield if the rod's broken or not.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Dave and Loraine" <dave.crooks@...> wrote:
>
> Bill K0ZL used to recommend leaving the sleeve off.
> Mine's been off for years with no problems.
> 73 Dave f4eyk
>

20876. 6146A VS 6293

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-10 01:36:45 UTC
From: Dale Parfitt
Topic: 20876 Message: 20876

Is anyone running the 6293 pulse tube in place of 6146A's in their Kenwoods? If so, any issues like difficulty neutralizing?
These tubes appear to be readily available at a competitive price to the 6146 but are said to be much more tolerant of high short term Ip.

Finally, what Po are you guys seeing on the T-599/TS-520 etc from a pair of 6146?

Tnx,

Dale W4OP

20877. The time has came!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-10 03:35:44 UTC
From: Kyle
Topic: 20877 Message: 20877

I`ve been licensed since 1988 and have been sitting on my new TS-520 since 1989. I never been in a position to set up my radio, untill now.
I just got me a house with a backyard, although it`s very a very small lot. I hold an Extra Class ticket but I virtually have no experience.
Since I couldn`t get on the air, all I did was study (self taught). Right now I feel like I know nothing. I`m not very tech savy either. I`m a bit overwhelmed in trying to get things set up.
Since my backyard is really small and I`m mostly interested in 80 & 40 meters, I determined that I will set up a verticle antenna.
I don`t know what I`m going to do when it comes to grounding? How does someone with a tiny car get a eight foot ground rod home? Lightning protection, transmission line, etc etc. I guess I have allot of stuff to order and get straitened out before I set up my antenna (which ever that one will end up being). I got moles in the backyard also so I guess I`ll have to run the coax inside of a buried pvc tube. Grrr. To my understanding, moles will chew on the coax cable? I sure could use an elmer right now. The local radio club seems to be a bit unfriendly. About three years ago I went to their Field Day and I was invisible.
Anyhow, I soon will be on the air with the rig. Hopefully it still works? LoL. 73`s Kyle N0MKH

20878. Re: The time has came!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-10 04:31:43 UTC
From: Aaron
Topic: 20877 Message: 20878

Welcome Kyle!!

Well grounding isn't as tough as you think and in a pinch you can get up and running with out a ground. Be warned you can run into RFI issues with no ground but you can get up and running.

A grounding rod closest to the transmitter is always best, sometime not practical. I typically make an access plate with SO-239's mounted in it where the coax comes into the house. Then I use a brass bolt to run from the mounting plate to another ground rod. This gives a grounding point on all my transmission line right before it comes into the house. Now if you are dealing with a single coax run. Look for a Andrews 1/2" grounding strap. You can just use a threaded SO-239 and make a tab to attach a grounding lead.

I think the "Lightning Arrestors" are over priced junk.

Just because you are on a small lot does not mean you are limited to a ground mounted pole vertical. Inverted L work well and cheap to build, full wave loops are great. I run a 160M loop for about every band with a SGC-239 tuner and it blows my hyGain AV-620 out of the water on every band. Might think about one of those tuners and a $35 500" spool of 14AWG wire at lowes and start playing around. Put up as much wire as you can get up and forget about it.

Make sure you have a fairly accurate SWR meter, calculator, dummy load, and antenna tuner. Start experimenting... its fun :) Those SGC tuners are handy because you can about tune up a coat hanger on any band in a split second.

Anyways got any questions just ask... probably the nicest group of hams on the internet reside right here.

Regards,
Aaron
KD4GSL

--- In TS-520_820_530_830@yahoogroups.com, "Kyle" <kyle171@...> wrote:
>
> I`ve been licensed since 1988 and have been sitting on my new TS-520 since 1989. I never been in a position to set up my radio, untill now.
> I just got me a house with a backyard, although it`s very a very small lot. I hold an Extra Class ticket but I virtually have no experience.
> Since I couldn`t get on the air, all I did was study (self taught). Right now I feel like I know nothing. I`m not very tech savy either. I`m a bit overwhelmed in trying to get things set up.
> Since my backyard is really small and I`m mostly interested in 80 & 40 meters, I determined that I will set up a verticle antenna.
> I don`t know what I`m going to do when it comes to grounding? How does someone with a tiny car get a eight foot ground rod home? Lightning protection, transmission line, etc etc. I guess I have allot of stuff to order and get straitened out before I set up my

antenna (which ever that one will end up being). I got moles in the backyard also so I guess I`ll have to run the coax inside of a buried pvc tube. Grrr. To my understanding, moles will chew on the coax cable? I sure could use an elmer right now. The local radio club seems to be a bit unfriendly. About three years ago I went to their Field Day and I was invisible.
> Anyhow, I soon will be on the air with the rig. Hopefully it still works? LoL. 73`s Kyle N0MKH
>

20879. Re: [TS-520_820_530_830] The time has came!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-10 08:18:32 UTC
From: richard
Topic: 20877 Message: 20879

On Fri, 10 Apr 2009 03:35:44 -0000
"Kyle" <kyle171@...> wrote:

<snip>
ever that one will end up being). I got moles in the backyard also so
> I guess I`ll have to run the coax inside of a buried pvc tube. Grrr.
> To my understanding, moles will chew on the coax cable? I sure could
> use an elmer right now. The local radio club seems to be a bit
> unfriendly. About three years ago I went to their Field Day and I was
> invisible. Anyhow, I soon will be on the air with the rig. Hopefully
> it still works? LoL. 73`s Kyle N0MKH
>
>
Hi Kyle
If you want to run some coax underground try using a length of 1/2"
hardline, something like Andrew LDF4-50, that has a solid corrugated
copper outer. There's always plenty of it around on the surplus market.
HTH

--
Best wishes

Richard Bown

###
Registered Linux User 36561
OS: Ubuntu 9.04, Jaunty -dev, on AMD Dual Athlon 64 +4400: 8 GB RAM DDR2
Ham Call: G8JVM , QRA IO82SP, Interests Microwave
###

20880. Re: [TS-520_820_530_830] The time has came!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-10 08:49:00 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20877 Message: 20880

On Fri, 2009-04-10 at 09:18 +0100, richard wrote:
> On Fri, 10 Apr 2009 03:35:44 -0000
> "Kyle" <kyle171@...> wrote:
>
> <snip>
> ever that one will end up being). I got moles in the backyard also so
> > I guess I`ll have to run the coax inside of a buried pvc tube. Grrr.
> > To my understanding, moles will chew on the coax cable? I sure could
> > use an elmer right now. The local radio club seems to be a bit
> > unfriendly. About three years ago I went to their Field Day and I was
> > invisible. Anyhow, I soon will be on the air with the rig. Hopefully
> > it still works? LoL. 73`s Kyle N0MKH
> >
> >
> Hi Kyle
> If you want to run some coax underground try using a length of 1/2"
> hardline, something like Andrew LDF4-50, that has a solid corrugated
> copper outer. There's always plenty of it around on the surplus market.
> HTH
>

The other thing you can do is lay some plastic pipe and feed the cable
up that. When you want to run more cable out you feed it through by
tying it to to the draw cable you left in there, joining another length
of draw cable on in a loop. You *did* remember to leave the draw cable
in, right?

Gordon

20881. Re: 6146A VS 6293

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-10 13:08:58 UTC
From: m j synowiec
Topic: 20876 Message: 20881

--- In TS-520_820_530_830@yahoogroups.com, "Dale Parfitt" <parinc1@...> wrote:
Hello Dale & Group

I have the 6293's in my 830S. I've had it for two years & it had the 6293's in it when I got it. No issues... no problems. Typical P/O is 125W- 110W on 160 thru 20 tapering off to 100W-90W on 15 thru 10. (This is key-down CW.)

Vy 73,
mjsyn
K8SYN

>
> Is anyone running the 6293 pulse tube in place of 6146A's in their Kenwoods? If so, any issues like difficulty neutralizing?
> These tubes appear to be readily available at a competitive price to the 6146 but are said to be much more tolerant of high short term Ip.
>
> Finally, what Po are you guys seeing on the T-599/TS-520 etc from a pair of 6146?
>
> Tnx,
>
> Dale W4OP
>

20882. Re: [TS-520_820_530_830] The time has came!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-10 14:05:33 UTC
From: Charles Coffee
Topic: 20877 Message: 20882

On 4/9/09, Kyle <kyle171@...> wrote:
>
> I`ve been licensed since 1988 and have been sitting on my new TS-520 since
> 1989. I never been in a position to set up my radio, untill now.
> I just got me a house with a backyard, although it`s very a very small lot.
> I hold an Extra Class ticket but I virtually have no experience.
> Since I couldn`t get on the air, all I did was study (self taught). Right
> now I feel like I know nothing. I`m not very tech savy either. I`m a bit
> overwhelmed in trying to get things set up.

Kyle Welcome, hope you enjoy the group here and the hobby, and purchase of
the home.
Ground rods will fit even a small auto, just roll down the back window,
place the ground rod inside something or wrap it and extend it
through either over the front seat or if you have two seats/console, let it
go through to the front floor board. You just need something
around the ground rod where it comes in contact with the back window.

Since you are on a small lot, you could also use a dipole. One that I have
used in the past and I was introduced to by a good
friend (WD8PNL) is to use Radio Shack Speaker Wire. Get the type that has
the clear insulation, and split the wire down the
middle to the approriate length for the band(s) that you wish to cover.
Then you place electrical tape or a mechanical
device to stop the duples wire from splitting any futher, and you use the
remainder of the speaker cable as twin lead
feeder between the shack and the antenna. *You will need to use a balanced
tuner* with this and then coax
from the tuner to the rig. You should be able to pick up a tuner for a
small sum on ebay, but make sure it will handle
balanced line.

Also, I would suggest you have only a Single Point Ground. Do NOT run
multiple ground rods unless they are all connected
with at least #6AWG wire - you do not need different ground potential
problems either. There is a pretty good chance that you
already have the ground rod installed outside of the house from where your
main Breaker panel is now located. Do not
know how far from the shack that is located however.

Hope some of this helps, if you like you can contact me off list.
You will be really nervous when you make your first contact, but DO IT,
after that they all get easier..

Good Luck, 73
Chuck, KJ4GU

>
> Yahoo! Groups Links
>
>
>
>

[Non-text portions of this message have been removed]

20883. Re: [TS-520_820_530_830] The time has came!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-10 14:18:18 UTC
From: Chris Maness
Topic: 20877 Message: 20883

<snip>

The local radio club seems to be a bit unfriendly. About three years ago I went to their Field Day and I was invisible.

<snip>

This is a shame. My club focuses on the neophytes to the point we run of the competitive heels out of our club. Field day is a great place to mentor and inspire newer hams. Try to find a more n00b friendly club close to your area. Generally, ham clubs are not too far apart, so that you can be a bit choosy.

Chris KQ6UP

Good Luck

20884. Re: The time has came!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-10 14:31:21 UTC
From: w5rkl
Topic: 20877 Message: 20884

I agree with Chris, find another club that is more receptive to all hams and the club members are willing to help anyone who ask for help.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Chris Maness <chris@...> wrote:
>
> <snip>
>
> The local radio club seems to be a bit unfriendly. About three years
> ago I went to their Field Day and I was invisible.
>
> <snip>
>
> This is a shame. My club focuses on the neophytes to the point we run
> of the competitive heels out of our club. Field day is a great place
> to mentor and inspire newer hams. Try to find a more n00b friendly
> club close to your area. Generally, ham clubs are not too far apart,
> so that you can be a bit choosy.
>
> Chris KQ6UP
>
> Good Luck
>

20885. Spectronics Digital Frequency Display

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-10 14:47:26 UTC
From: Joe Hayes
Topic: 20885 Message: 20885

In case anyone is interested, I have a very nice display listed on Ebay.

Item number: 250402231873

[Non-text portions of this message have been removed]

20886. 60 meter bands on 520?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-10 06:39:23 UTC
From: gr8raoul
Topic: 20886 Message: 20886

Has anyone tried to tune up on 60 meters yet?

Since 60 in the USA is a channelized band, putting some crystals in the mainly unused 'fixed' crystal slots might work if the adjustable circuits would resonate enough for 60. 60 meter crystals would probably have to be custom ordered but it would put my 520 on another band.

On a similar note, has anyone ever used 'fixed' crystals on any band and, if so, were the crystals available off the shelf?

Jeff KB7AIL

20887. Re: 60 meter bands on 520?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-10 21:41:30 UTC
From: w5rkl
Topic: 20886 Message: 20887

Jeff,

Unfortunately this will not work. Remember, the FIX CH function "replaces the VFO" and provides one of the following:

1. Crystal control transmit, VFO receive

2. VFO receive, crystal control transmit

3. Crystal control transmit and receive

nothing more.

Therefore, simply plugging a 60 meter crystal into one of the FIX CH sockets will not place the hybrid on 60 meters. It will take more than a crystal, a lot more, to put a hybrid on 60 meters. For example, the VFO frequency range would have to be changed which would affect the entire mixing process. The hybrid VFO's operate between 5.000mhz and 5.500mhz (FIX CH crystal, when used, replace the VFO as I stated above) which is above and below the 60 meter band. Simply changing one of the heterodyne oscillator crystals will not do it either. Conflicts with the VFO will occur.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "gr8raoul" <gr8raoul@...> wrote:
>
> Has anyone tried to tune up on 60 meters yet?
>
> Since 60 in the USA is a channelized band, putting some crystals in the mainly unused 'fixed' crystal slots might work if the adjustable circuits would resonate enough for 60. 60 meter crystals would probably have to be custom ordered but it would put my 520 on another band.
>
> On a similar note, has anyone ever used 'fixed' crystals on any band and, if so, were the crystals available off the shelf?
>
> Jeff KB7AIL
>

20888. RE: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's Back!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-10 21:48:05 UTC
From: Tate Antrim
Topic: 20584 Message: 20888

Good news.I got a replacement AF board hooked it up and have a fully functioning 830S. The component that went bad is the HA1368R audio amp. Cooling it with compressed air would bring the rig up to full power instantly. Letting it warm back up and the power would drop off instantly.

As it is now, I'm trying to find a new one (well a NOS one) and redo my board so that I have a spare.

Incidentally, the replacement board had some work done on it as well to replace the relay in corner and comparing it to mine noticed that it was not in a "clean" an environment. But at least I have my 830S working again.

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Tate Antrim
Sent: Monday, April 06, 2009 7:32 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: RE: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's Back!

Hey everyone.

I'm going to get a replacement AF board and pop that in for now. I agree with the comment that this is pulling the signal lines downstream way down. It acts like switching it to usb and no drive signal.that's what got me to thinking that there was something in the signal path that was sensitive to heat but really wasn't a relay issue. Once the cathode resistors were replaced and I had concrete proof that the IP was now "correct" and the suggestion to look at SG voltage yielded a very solid level between RX and TX (not to mention a couple of local hams offering suggestions on 160m last night). I fired it up and said to myself that I'm not going to let this girl go wither on a shelf but figure out what this problem is.

When I was an avionics bench tech (many years ago) we had freezie stuff in a can and I remembered how helpful that was in determining where things were having issues that canned air came to mind.giving a blast of that can frost the circuitry. One blast and it popped right up but instantly went down.

So now I've got a new board on the way and I'll get that component and replace it on my old board then store that one away as a spare. In the meantime I just want to get my favorite girl back on the air!!!!

But really, thanks to everyone for their suggestions. Now to get a sweep signal generator and a spectrum analyzer and maybe I can start a new career.well.anyways.

From: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
[mailto:TS-520_820_530_830@yahoogroups.com

<mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of w5rkl
Sent: Monday, April 06, 2009 2:53 PM
To: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
Subject: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's Back!

Hello Daniel,

That would be a possible solution if the chip did not have a heat sink
already.

Based on Tate's comments, it appears a previous owner tried to replace the
chip and did a bad job of it. Whether it's possible to "clean" up the mess
the previous owner made, at least for my point of view, is not known. I
would suspect Tate has thought of that and possibly tried cleaning up the
mess. However, if Tate has tried that and no change was seen, then it does
appear the audio IC chip is dragging down the 12VDC supply which is
affecting not only the IF UNIT's Q29 but also other circuits in transmit
plus I also suspect receive circuits as well. Of course Tate can answer
whether he attempted cleaning up the mess from a previous owner.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
<mailto:TS-520_820_530_830%40yahoogroups.com> , Daniel TOESCA
<ON5PY1967@...> wrote:
>
> Hello,
>
> Sorry, I didn't follow the whole case, but wouldn't it be possible to glue
a
> larger aluminium radiator on Q4 ?? I remember a problem with a TV
> processor chip that drifted when heating. I removed it cutting its pins -
> 40 or 42... - to replace using a socket, but almost shot the new one
because
> of a broken ground connection. Epoxying a radiator would have been much
> easier. Just my two eurocents....
>
> 73's Daniel, ON5PY
>
>
> 2009/4/6, w5rkl <w5rkl@...>:
> >
> > Hello Tate,
> >
> > With the additional information you provided especially giving Q4 on the
AF
> > UNIT a shot of cold air, it appears you have found the culprit that is

> > causing your problem. The question I had was how does Q4 affect the
> > transmitter output signal? This information may have been presented
earlier
> > but I may have just missed it.
> >
> > Here is what I think is happening to cause the RF output to drop to
zero.
> >
> > When Q4 on the AF UNIT goes bananas it drags down the 12VDC supply. When
> > this happens, Q29 on the IF UNIT is affected, basically shutting down
Q29.
> > Q29 on the IF UNIT is the "TIF" (Transmit IF) amplifier. The TIF signal
is
> > fed from the IF UNIT to the RF UNIT where it is mixed in Q6 and Q7 with
the
> > VCO signal to produce the "operating" frequency. If the TIF signal is
> > missing in the RF UNIT then there will be no operating frequency to feed
to
> > the driver and final tubes, hence, zero RF output! By giving Q4 on the
AF
> > UNIT a shot of cold air, Q4 starts operating properly which brings the
12VDC
> > source back to its normal level and Q29 operates normally and amplifies
the
> > TIF signal, the TIF and VCO signals mix in Q6 and Q7 producing the
operating
> > frequency and output is seen at the final amplifier.
> >
> > I suspect if you placed a scope on the RF UNIT's "TIF" connection and
when
> > Q4 on the AF UNIT goes bananas, the level of TIF signal would drop
> > considerably which would cause the RF output to also drop. Giving Q4 a
shot
> > of cold air will cause the TIF signal to return and will show up on the
> > scope and output will return from the final amplifier. A VTVM connected
to
> > the IF UNIT "12" pin will also show a reduction in the 12VDC supply when
Q4
> > goes bananas but will return to its normal level when Q4 s given a shot
of
> > cold air. Just a few thoughts I had.
> >
> > Good job Tate!!
> >
> > 73
> > Mike
> > W5RKL
> >
> > --- In TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>

<mailto:TS-520_820_530_830%40yahoogroups.com>
<TS-520_820_530_830%40yahoogroups.com>,
> > "Tate Antrim" <kd8hja@> wrote:
> > >
> > > Ah hah!!!!
> > >
> > >
> > >
> > > SG voltage is perfect at all times (including TUNE).
> > >
> > >
> > >
> > > Very tricky. Turns out it seems to be the big audio IC on the AF
board.
> > > Letting the rig run for a couple of hours it will start to exhibit the
> > > problem of delayed response on output finally dropping down to
nothing.
> > My
> > > gut told me that something on that board is causing a problem. I ruled
> > out
> > > the PLL and such because it was displaying the correct frequency and
> > problem
> > > is on all bands and the display is rock solid. But what I noticed is
that
> > > plate current drops to 60mA in CW when you hit send.bingo.acts just
like
> > > USB/LSB when you hit Send and there's no audio to excite it.
> > >
> > >
> > >
> > > I put my finger on the aluminum around the AF board and it seemed
> > > inordinately "warm" for just sitting there running. Flipping the
switch
> > to
> > > send would seem to increase the overall temperature. So I got out a
can
> > of
> > > canned air and blasted components around the area where it seemed a
bit
> > warm
> > > and all of a sudden output jumped up to 100w instantly. Letting off
the
> > > cold air and output drops back to 0W.cold air on 100w out. Cold air
> > off.0W.
> > > Wax on, wax off. So I narrowed it down to the big IC.
> > >
> > >
> > >
> > > I noticed the other day when I have the AF board out that it looked
like

> > > either someone at some point replaced the chip or tried to resolder it
-
> > > either way it didn't look right. But it just didn't make the
connection
> > in
> > > my head.
> > >
> > >
> > >
> > > So I think for now I'll try to get another AF board and I should be
back
> > in
> > > biz with the old girl.
> > >
> > >
> > >
> > > Thanks for everyone's help.
> > >
> > >
> > >
> > > From: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
<mailto:TS-520_820_530_830%40yahoogroups.com>
<TS-520_820_530_830%40yahoogroups.com>
> > > [mailto:TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
<mailto:TS-520_820_530_830%40yahoogroups.com>
<TS-520_820_530_830%40yahoogroups.com>]
> > On Behalf Of w5rkl
> > > Sent: Sunday, April 05, 2009 4:54 PM
> > > To: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
<mailto:TS-520_820_530_830%40yahoogroups.com>
<TS-520_820_530_830%40yahoogroups.com>
> > > Subject: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's
Back!
> > >
> > >
> > >
> > > Tate,
> > >
> > > Check the voltage on the final amplifier's "SG" pin connection. If the
> > "SG"
> > > voltage is unstable check resistors R15 and R16, both 56K, on the
> > Rectifier
> > > Unit. You also might check RL1 on the Rectifier Unit. It is possible
the
> > > contacts are dirty.
> > >
> > > 73

> > > Mike
> > > W5RKL
> > >
> > >
> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
> >
> >
>
>
> [Non-text portions of this message have been removed]
>

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[Non-text portions of this message have been removed]

20889. Re: [TS-520_820_530_830] The time has came!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-10 22:35:17 UTC
From: richard
Topic: 20877 Message: 20889

On Fri, 10 Apr 2009 09:49:00 +0100
Gordon JC Pearce MM3YEQ <gordon@...> wrote:

> On Fri, 2009-04-10 at 09:18 +0100, richard wrote:
> > On Fri, 10 Apr 2009 03:35:44 -0000
> > "Kyle" <kyle171@...> wrote:
> >
> > <snip>
> > ever that one will end up being). I got moles in the backyard also
> > so
> > > I guess I`ll have to run the coax inside of a buried pvc tube.
> > > Grrr. To my understanding, moles will chew on the coax cable? I
> > > sure could use an elmer right now. The local radio club seems to
> > > be a bit unfriendly. About three years ago I went to their Field
> > > Day and I was invisible. Anyhow, I soon will be on the air with
> > > the rig. Hopefully it still works? LoL. 73`s Kyle N0MKH
> > >
> > >
> > Hi Kyle
> > If you want to run some coax underground try using a length of 1/2"
> > hardline, something like Andrew LDF4-50, that has a solid
> > corrugated copper outer. There's always plenty of it around on the
> > surplus market. HTH
> >
>
> The other thing you can do is lay some plastic pipe and feed the cable
> up that. When you want to run more cable out you feed it through by
> tying it to to the draw cable you left in there, joining another
> length of draw cable on in a loop. You *did* remember to leave the
> draw cable in, right?
>
> Gordon
>
Not a good idea to use a pipe to protect coax run in it.
you make a nice rodent highway and anything in its way gets attacked.
You are more likely to get coax chewed laying it in a pipe than burying
it without protection.

--
Best wishes

Richard Bown

##
Registered Linux User 36561
OS: Ubuntu 9.04, Jaunty -dev, on AMD Dual Athlon 64 +4400: 8 GB RAM DDR2

Ham Call: G8JVM , QRA IO82SP, Interests Microwave
##

20890. TS-180s transmit intermittent

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-11 00:29:22 UTC
From: jmpjip
Topic: 20890 Message: 20890

I know this is a hybrid Kenwood group, but my TS-180s is about the right vintage, and thought some of you might have experience with this rig.
Sometimes when I key the TX, all the power is there. Sometimes, there's none. Sometimes, there's a little power that builds to full output in 3 to 5 seconds.

The troubleshooting guide in my service manual points to two different RL1's. One is in the LPF unit, the other is in the IF unit.

Before I dig in too deep, I have two questions:
1. Am I looking in the right direction?
2. Are these relays sealed, or can they be opened up so that I can clean the contacts?
3. Since a relay is an on or off device, what can explain the gradual "ramping up" effect?
     (Oxidation burning through maybe?)

And an unrelated question. Does anyone know of a good mod for monitoring transmit audio?

Thanks for any help you may offer. I've had this radio since 1982, and it has been bulletproof until now. I really like it.

Jim Patterson, K9DXL

[Non-text portions of this message have been removed]

20891. Re: [TS-520_820_530_830] The time has came!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-10 18:08:01 UTC
From: J HARRISON
Topic: 20877 Message: 20891

Hello Kyke,
The best way to earth your station is to bury as many (and as long as possible) lengths of copper wire just a couple of inches below the earth. Grounding rods are ok for lightning conductors but even a small earth mat makes a more efficient earth than a long earthing rod and its a lot less expensive.-- On Fri, 10/4/09, Kyle <kyle171@...> wrote:
Regards
Jim G4AGW
From: Kyle <kyle171@...>
Subject: [TS-520_820_530_830] The time has came!
To: TS-520_820_530_830@yahoogroups.com
Date: Friday, 10 April, 2009, 4:35 AM

I`ve been licensed since 1988 and have been sitting on my new TS-520 since 1989. I never been in a position to set up my radio, untill now.
I just got me a house with a backyard, although it`s very a very small lot. I hold an Extra Class ticket but I virtually have no experience.
Since I couldn`t get on the air, all I did was study (self taught). Right now I feel like I know nothing. I`m not very tech savy either. I`m a bit overwhelmed in trying to get things set up.
Since my backyard is really small and I`m mostly interested in 80 & 40 meters, I determined that I will set up a verticle antenna.
I don`t know what I`m going to do when it comes to grounding? How does someone with a tiny car get a eight foot ground rod home? Lightning protection, transmission line, etc etc. I guess I have allot of stuff to order and get straitened out before I set up my antenna (which ever that one will end up being). I got moles in the backyard also so I guess I`ll have to run the coax inside of a buried pvc tube. Grrr. To my understanding, moles will chew on the coax cable? I sure could use an elmer right now. The local radio club seems to be a bit unfriendly. About three years ago I went to their Field Day and I was invisible.
Anyhow, I soon will be on the air with the rig. Hopefully it still works? LoL. 73`s Kyle N0MKH

[Non-text portions of this message have been removed]

20892. Re: The time has came!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-11 03:04:25 UTC
From: Kyle
Topic: 20877 Message: 20892

Thanks for all responses. I just finished moving into my new house last weekend so I haven`t had time to do much yet. Grandma left me the house when she SK`d. I hope she doesn`t mind that I have plans to turn her beloved garden into an antenna farm,LoL. I come from an tiny apt that had metal siding. Horrible reception, couldn`t get through. I made a 20 meter dipole that I had strung up along the ceiling. The dipole worked on 10, 15, & 20 meters with my tuner. 1:1 swr on 20. I only made about 5 contacts in five years on it. The dipole will fit fine in the backyard. However I think a 40 & 80 meter dipole would be a challenge to fit in the yard. Yes, a loop should be able to fit. But maybe a challenge to build for me? I do have ALL the books from ARRL. I`ve been studying up as much as I can. Reading & doing is a bit different for me though. Hey, I`m trying though. I also have ALL the Kenwood TS-520 line of accesories. I am anxious to fire up the rig! I also have a FT-857 & an ATAS-120 screwdriver antenna.
Tomarrow I`m going to try an expeirment. I have a huge metal shed in the back yard. I`m going to attach the ATAS to the shed and see what happens. (after sanding the paint down for good grounding). Long story but I never went mobile with the FT-857. I know the ATAS is more of a dummy load than an antenna but I want to just give it a try.
I did have an elmer at one time. He really pushed me into keep studying to upgrade my licensing since I couldn`t get on the air. He SK`d the day I got my Extra. I hope I wasn`t that bad? LoL
Thanks again group. 73`s Kyle N0MKH

20893. Re: TS-520S Field Day?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-11 03:36:14 UTC
From: Brian Hall
Topic: 20867 Message: 20893

I think it's a great FD rig...rugged and forgiving. Just keep the "appliance operators" away from it if your using it at a club station (I lost a set of finals that way a few years ago).

Dynamic range??? What do you think we used for contests before DSP?

73,
Brian AC7NA

--- In TS-520_820_530_830@yahoogroups.com, "Christopher Maness" <chris@...> wrote:
>
> Does this rig have good enough dynamic range for contest operation (esp. FD)? I am thinking about using mine for our club's FD.
>
> Chris KQ6UP
>

20894. Re: [TS-520_820_530_830] Re: TS-520S Field Day?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-11 03:56:27 UTC
From: george dumond
Topic: 20867 Message: 20894

Chris your radio will outperform all the oyhers if you keep the apliance op away from it.
George k0gwd

--- On Fri, 4/10/09, Brian Hall <bnhall_2000@yahoo.com> wrote:

From: Brian Hall <bnhall_2000@...>
Subject: [TS-520_820_530_830] Re: TS-520S Field Day?
To: TS-520_820_530_830@yahoogroups.com
Date: Friday, April 10, 2009, 10:36 PM

I think it's a great FD rig...rugged and forgiving. Just keep the "appliance operators" away from it if your using it at a club station (I lost a set of finals that way a few years ago).

Dynamic range??? What do you think we used for contests before DSP?

73,
Brian AC7NA

--- In TS-520_820_530_ 830@yahoogroups. com, "Christopher Maness" <chris@...> wrote:
>
> Does this rig have good enough dynamic range for contest operation (esp. FD)? I am thinking about using mine for our club's FD.
>
> Chris KQ6UP
>

[Non-text portions of this message have been removed]

20895. Re: [TS-520_820_530_830] Re: The time has came!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-11 08:01:48 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20877 Message: 20895

On Sat, 2009-04-11 at 03:04 +0000, Kyle wrote:

> house when she SK`d. I hope she doesn`t mind that I have plans to turn
> her beloved garden into an antenna farm,LoL. I come from an tiny apt

Climbing plants love lattice masts, and you'd be amazed how well the addition of some sweet peas can keep the domestic harmony in good fettle.

Just sayin'...

Gordon

20896. Re: [TS-520_820_530_830] Re: TS-520S Field Day?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-11 08:03:28 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20867 Message: 20896

On Fri, 2009-04-10 at 20:56 -0700, george dumond wrote:
> Chris your radio will outperform all the oyhers if you keep the apliance op away from it.
> George k0gwd

And if you've got an appliance op, teach them how to tune up properly.
They won't be quite so much of an appliance op any more, you get to keep
your finals. Everyone wins.

Gordon

20897. Re: The time has came!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-11 16:40:52 UTC
From: Brian Hall
Topic: 20877 Message: 20897

In regard to coax burial, try burying some PVC or black PVC (used for drainage systems) in a trench. For a really durable installation, line the bottom of the trench with some pea gravel and drill holes in the underside of the PVC for drainage (I've seen a couple PVC runs filled with water causing coax failure)and run your coax inside the PVC. If you oversize the PVC, you can add more cables later on. If you have the means, run at least one additional cable than you need, to use as a spare.

Have fun and feel free to ask questions. If your local club isn't helpful, that's unfortunate, but thanks to the internet, there is lots of help available (sometimes too much...LOL!)

73,
Brian AC7NA

20898. Re: [TS-520_820_530_830] Re: Strange issue with the carrier controll

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-11 18:35:42 UTC
From: Christopher Maness
Topic: 20746 Message: 20898

W5RKL wrote:
> Hello Chris,
>
> The carrier null procedure in either manual accomplishes the same
> thing. The service manual states to use a VTVM with an RF Probe
> connected to the 520's antenna connector (center pin of the rear
> SO-239) where the operator's manual uses the 520's RF meter position.
> Either method will work. However, a more accurate method is to use a
> separate receiver tuned to the same frequency and sideband(s) the 520 is.
>
> When using a separate receiver, DO NOT connect the separate receiver
> to the 520!! Doing so can damage the separate receiver.
>
<snip>

Wow, did someone actually hook there transmitter straight to their
reciever? ;o)

<snip>
>
> First, tune the 520 into a dummy load for maximum output as outlined
> in the manual's operating section. Then tune the separate receiver to
> the same frequency and mode as the 520. Place the 520 in USB, or LSB,
> as stated in the manual, set the MIC gain completely counter clockwise
> (minimum MIC gain setting), key the 520 into a dummy load with the
> SEND switch and adjust TC1 and VR2 on the 520's GENERATOR UNIT for the
> lowest S meter reading on the separate receiver. Switch sidebands and
> perform the adjustments again. As stated in the manuals, you will have
> to alternate between sidebands and adjust TC1 and VR2 a number of
> times to obtain the best carrier null.
>
> I use the separate receiver method on all sideband transmitter carrier
> null adjustments I make. Whether you use the manuals methods or a
> separate receiver method is up to you. The key is to adjust VR2 and
> TC1 on the GENERATOR UNIT in the 520 for the lowest carrier output in
> USB and LSB.
>
> 73
> Mike
> W5RKL
>
Thanks,
Chris KQ6UP

20899. Re: How can I tell if a mixer mosfet is bad? - A happy ending

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-11 21:25:10 UTC
From: chris_yipyap_com
Topic: 20364 Message: 20899

A followup to my story...

This radio was given to my by a ham friend. He got it from a dealer at the Dayton flea market many years ago, also a gift. The thing has had a number of problems, too much to pay a real technician to fix it.

After fixing some power supply stuff, then wrestling with the transmit mixer, eventually figuring out that one of the connectors to the board was bad...

I still wasn't getting much of anything into the driver tube. So, seeing as how I had abused most of the pertinent parts on the RF board over the course of events, unsoldering and trying substitutes, etc. etc., I decided to replace both of the transmit mixer dual gate MOSFET transistors. It was my feeling that one of them was bad and I was limping on one leg, so to speak.

I ordered some from off of Ebay from a guy out of Houston. They are not exactly the same part. I got SK3065s to replace the original 3SK41s. I replaced both of them.

Well, putting those in, low and behold, I have some output now.
I went through the abbreviated coil pack tune up from the "files" section of this site. Some of the coils were off by quite a bit.

Somewhere along the line I also gathered up a couple of Motorola 8298s for the finals. So I neutralized those guys and I'm putting out 80+ watts on 20 meters. I'm just fine with that.

My sidetone is a little fuzzy. And who knows what other bits and pieces could use a touch up. But the knobs are clean, the pots have been sprayed with tuner spray, it appears to be on frequency, the receiver receives and the transmitter transmits.

I'm pretty happy about it!

I've been wanting to get this thing fixed so that I could replace the TS-830 which is my regular rig. That poor guy has intermittent transmit problems which have pretty much made 40 meters unusable.
So now the TS-830 is resting and eventually will go to the bench.

Thanks heaps to many of you who have helped me with advice and information.

Chris w0ep

--- In TS-520_820_530_830@yahoogroups.com, "chris_yipyap_com" <chris@...> wrote:
>
>
> Well, I've had a long history with the transmit mixer in this thing.
> Finally just a while ago I figured out it was a connector problem and
> I was getting no C- voltage. So the mixer was always biased off. Now
> I have signal, but the signal is small and ugly on my scope.
>

> Since there is a balancing thing going on, I am suspicious that the
> balancing isn't working.
>
> I'll check the signal levels again.
>
>
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Measure the voltages on Q1 and Q8's Gate 1, Gate 2 and Drain pins
> >
> > G1 - -4.8VDC Rcv / +2.5VDC Xmit
> > G2 - -4.8VDC Rcv / +2.5VDC Xmit
> >
> > Drain - +13.5VDC Rcv / 12.8VDC Xmit
> >
> > You might also check the PLL Unit's VCO signal level. It should be
> > .9VDC. A missing or very low VCO signal applied to the RF Unit's "VCO"
> > pin can affect the transmit mixer Q1 and Q8.
> >
> > One question. What prompted you to check the signals at the transmit
> > mixer output?
> >
> > 73
> > Mike
> > W5RKL
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "chris_yipyap_com"
> > <chris@> wrote:
> > >
> > >
> > > I'm suspicious that one of the 3SK41 mosfets is bad in
> > > the transmit mixer on the RF board of this TS-820.
> > >
> > > The reason I say so is that I've got really funky waveforms on the
> > > scope on the outbound side of the mixer. If it is supposed to be any
> > > kind of a clear waveform then something is wrong.
> > >
> > > So... is there some way to tell if one of the 3SK41 mosfets is bad and
> > > I'm limping on one?
> > >
> > > I could replace both, but that will cost about $20 bucks and I'd like
> > > to know if I'm barking up the wrong tree.
> > >
> > > Chris
> > > w0ep

> > >
> >
>

20900. Re: [TS-520_820_530_830] The time has came!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-11 21:22:14 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20877 Message: 20900

On Fri, 2009-04-10 at 23:35 +0100, richard wrote:
> rdon
> >
> Not a good idea to use a pipe to protect coax run in it.
> you make a nice rodent highway and anything in its way gets attacked.
> You are more likely to get coax chewed laying it in a pipe than burying
> it without protection.

Hmm, okay. That'll be why so much cable is laid in pipes instead of directly into the ground then - I can put my name to at least a couple of hundred km of UTP, STP, fibre and coax laid in pipe...

Gordon

20901. Re: The time has came!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-11 21:48:49 UTC
From: Kyle
Topic: 20877 Message: 20901

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce MM3YEQ <gordon@...> wrote:
>
> On Sat, 2009-04-11 at 03:04 +0000, Kyle wrote:
>
> > house when she SK`d. I hope she doesn`t mind that I have plans to turn
> > her beloved garden into an antenna farm,LoL. I come from an tiny apt
>
> Climbing plants love lattice masts, and you'd be amazed how well the
> addition of some sweet peas can keep the domestic harmony in good
> fettle.
>
> Just sayin'...
>
> Gordon
>

Thanks for the suggestions.Well it turns out that my ATAS-120 works great with my metal shed. I just made my first contact ever on 40 meters to K4HYB in Georgia (Georgia QSO Party). 59 report. I know this site is about Kenwoods but I`m just happy I`m able to get on the air for a change and made a contact! I have some other odds & ends to take care of but hopefully I`ll have my TS-520 up & running next weekend. Thanks. 73`s Kyle N0MKH

20902. 160 M band is only about 80 watts on ts 8304

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-12 03:51:27 UTC
From: Garrett, Russ
Topic: 20902 Message: 20902

I have followed the alignment procedures in the manual
and have even properly relaced the tubes. Everything checks out perfect except for the 160 M band which only wants to put out a little over 80 watts.

Any ideas?

73
Russ
Kd7mpk

Sent from my BlackBerry Wireless Handheld

Russ Garrett
Bullivant|Houser|Bailey PC
805 Broadway Street, Suite 400
Vancouver, WA 98660-3310
mailto:russ.garrett@...
direct dial: 360.737.3363 - fax: 360.695.8504 http://www.bullivant.com Seattle . Vancouver . Portland . Sacramento . San Francisco . Las Vegas

mail.bullivant.com made the following annotations

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****
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[Non-text portions of this message have been removed]

20903. old equipment found

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-12 04:56:03 UTC
From: Kyle
Topic: 20903 Message: 20903

My friend who works has a garbage man found some ham radio gear getting thrown out and saved them for me to see if I wanted them. I said sure, why not?
I now have an HP Wide Band Oscillator model# 200CD and a Heathkit Q Multiplyer model #QF-1.
I don`t know what these items are, our exactly know what they do? I guess i should "google" it.
Are these nice to have items?
My garbage friend just threw a tower away before he thought of me. Grrr

20904. Re: [TS-520_820_530_830] old equipment found

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-12 05:12:53 UTC
From: Don Thomas
Topic: 20903 Message: 20904

The HP 200CD is an audio oscillator and the Heath Q multiplier was used with vintage receivers to improve selectivity I believe. If you don't need them, I'm sure someone on the list would be more than happy to pay postage to take them off your hands. You probably don't have a use for the Heath Q-1, but the HP if it works would be quite useful for troubleshooting or building audio circuits. Too bad bout the tower.

http://oak.cats.ohiou.edu/~postr/bapix/HP200CD.htm

Don T.

--- On Sat, 4/11/09, Kyle <kyle171@...> wrote:

From: Kyle <kyle171@...>
Subject: [TS-520_820_530_830] old equipment found
To: TS-520_820_530_830@yahoogroups.com
Date: Saturday, April 11, 2009, 11:56 PM

My friend who works has a garbage man found some ham radio gear getting thrown out and saved them for me to see if I wanted them. I said sure, why not?
I now have an HP Wide Band Oscillator model# 200CD and a Heathkit Q Multiplyer model #QF-1. I don`t know what these items are, our exactly know what they do? I guess i should "google" it.
Are these nice to have items?
My garbage friend just threw a tower away before he thought of me. Grrr

[Non-text portions of this message have been removed]

20905. Re: old equipment found

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-12 05:48:30 UTC
From: Kyle
Topic: 20903 Message: 20905

--- In TS-520_820_530_830@yahoogroups.com, Don Thomas <satranger1@...> wrote:
>
> The HP 200CD is an audio oscillator and the Heath Q multiplier was used with vintage receivers to improve selectivity I believe. If you don't need them, I'm sure someone on the list would be more than happy to pay postage to take them off your hands. You probably don't have a use for the Heath Q-1, but the HP if it works would be quite useful for troubleshooting or building audio circuits. Too bad bout the tower.
>
> http://oak.cats.ohiou.edu/~postr/bapix/HP200CD.htm
>
> Don T.
>

I can say right now that I have no use for these two items. Both seem to be in good condition, however someone cut the power cord off the HP200CD. Copper recycling folks? ya, anybody want them?

20906. Re: [TS-520_820_530_830] The time has came!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-12 09:02:13 UTC
From: richard
Topic: 20877 Message: 20906

On Sat, 11 Apr 2009 22:22:14 +0100
Gordon JC Pearce MM3YEQ <gordon@...> wrote:

> On Fri, 2009-04-10 at 23:35 +0100, richard wrote:
> > rdon
> > >
> > Not a good idea to use a pipe to protect coax run in it.
> > you make a nice rodent highway and anything in its way gets
> > attacked. You are more likely to get coax chewed laying it in a
> > pipe than burying it without protection.
>
> Hmm, okay. That'll be why so much cable is laid in pipes instead of
> directly into the ground then - I can put my name to at least a couple
> of hundred km of UTP, STP, fibre and coax laid in pipe...
>
> Gordon
>
Cant resist can you,
IF you had read the original mail you would have read moles
Moles like rats are territorial and will attack any object in their way.
If you put a pipe in the same place as one of their runs and its big
enough for them to get into they will use that instead. Anything inside
the pipe thats in their way will get attacked as well.
If you put cables in a long pipe in the middle of nowhere any
territorial rodents will ignore it as their territories are much larger.
You can not compare the two.

--
Best wishes

Richard Bown

##
Registered Linux User 36561
OS: Ubuntu 9.04, Jaunty -dev, on AMD Dual Athlon 64 +4400: 8 GB RAM DDR2
Ham Call: G8JVM , QRA IO82SP, Interests Microwave
##

20907. Re: [TS-520_820_530_830] The time has came!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-12 09:14:18 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20877 Message: 20907

On Sun, 2009-04-12 at 10:02 +0100, richard wrote:

> Cant resist can you,
> IF you had read the original mail you would have read moles
> Moles like rats are territorial and will attack any object in their way.
> If you put a pipe in the same place as one of their runs and its big
> enough for them to get into they will use that instead. Anything inside
> the pipe thats in their way will get attacked as well.

That's why you use a transit block at each end. Of course, if you've got such a massive rodent or mole problem that they're even attacking your conduit, you really need to look at getting some pest control people in.

FWIW, I've always buried my coax in short runs of pipes, down about 18" or so. Despite having quite a lot of moles around, I've never had my coax chewed. Maybe the cats scare them off?

Gordon

20908. Measuring SSB signals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-12 12:29:51 UTC
From: James Fogg
Topic: 20908 Message: 20908

My apologies for such a basic question, it was even on my license exam and I've forgotten. I'm returning to the hobby from a very long hiatus and I've forgotten a lot.

I have a TS-530S and a Hitachi 30Mhz oscilloscope. I'd like to display my SSB signal. I'm not sure how to proceed. I could just tap the antenna signal but I'm not sure that's the best way to do it or if a 30Mhz scope is fast enough. I wonder if it may be better to tap a stage prior to the PA's.

I'm experimenting with some microphones on the 530S and would like to see if I'm driving things too hard and any other audio qualities that a scope might display.

Thanks in advance.

--
James -
Certified autodidactic polymath

20909. Re: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's Back!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-12 12:41:55 UTC
From: Daniel TOESCA
Topic: 20584 Message: 20909

Hi Tate, Congrats for the good news ! About repairing the bad board, don't overlook replacing the defunct IC with another audio amplifier with same audio output power, if space is not a problem. I know you need LOTS of luck to find replacement ICs these days... 73's - Daniel, ON5PY

2009/4/10, Tate Antrim <kd8hja@...>:
>
>
>
> Good news.I got a replacement AF board hooked it up and have a fully
> functioning 830S. The component that went bad is the HA1368R audio amp.
> Cooling it with compressed air would bring the rig up to full power
> instantly. Letting it warm back up and the power would drop off instantly.
>
> As it is now, I'm trying to find a new one (well a NOS one) and redo my
> board so that I have a spare.
>
> Incidentally, the replacement board had some work done on it as well to
> replace the relay in corner and comparing it to mine noticed that it was
> not
> in a "clean" an environment. But at least I have my 830S working again.
>
> From: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> [mailto:TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>]
> On Behalf Of Tate Antrim
> Sent: Monday, April 06, 2009 7:32 PM
> To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> Subject: RE: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's
> Back!
>
> Hey everyone.
>
> I'm going to get a replacement AF board and pop that in for now. I agree
> with the comment that this is pulling the signal lines downstream way down.
> It acts like switching it to usb and no drive signal.that's what got me to
> thinking that there was something in the signal path that was sensitive to
> heat but really wasn't a relay issue. Once the cathode resistors were
> replaced and I had concrete proof that the IP was now "correct" and the
> suggestion to look at SG voltage yielded a very solid level between RX and
> TX (not to mention a couple of local hams offering suggestions on 160m last
> night). I fired it up and said to myself that I'm not going to let this
> girl go wither on a shelf but figure out what this problem is.
>
> When I was an avionics bench tech (many years ago) we had freezie stuff in
> a

> can and I remembered how helpful that was in determining where things were
> having issues that canned air came to mind.giving a blast of that can frost
> the circuitry. One blast and it popped right up but instantly went down.
>
> So now I've got a new board on the way and I'll get that component and
> replace it on my old board then store that one away as a spare. In the
> meantime I just want to get my favorite girl back on the air!!!!
>
> But really, thanks to everyone for their suggestions. Now to get a sweep
> signal generator and a spectrum analyzer and maybe I can start a new
> career.well.anyways.
>
> From: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com<TS-520_820_530_830%2540yahoogroups.com>>
>
> [mailto:TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com<TS-520_820_530_830%2540yahoogroups.com>>
>] On Behalf Of w5rkl
> Sent: Monday, April 06, 2009 2:53 PM
> To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com<TS-520_820_530_830%2540yahoogroups.com>>
>
> Subject: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's Back!
>
> Hello Daniel,
>
> That would be a possible solution if the chip did not have a heat sink
> already.
>
> Based on Tate's comments, it appears a previous owner tried to replace the
> chip and did a bad job of it. Whether it's possible to "clean" up the mess
> the previous owner made, at least for my point of view, is not known. I
> would suspect Tate has thought of that and possibly tried cleaning up the
> mess. However, if Tate has tried that and no change was seen, then it does
> appear the audio IC chip is dragging down the 12VDC supply which is
> affecting not only the IF UNIT's Q29 but also other circuits in transmit
> plus I also suspect receive circuits as well. Of course Tate can answer
> whether he attempted cleaning up the mess from a previous owner.
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com<TS-520_820_530_830%2540yahoogroups.com>>
>
> <mailto:TS-520_820_530_830%40yahoogroups.com<TS-520_820_530_830%2540yahoogroups.com>>
> , Daniel TOESCA
> <ON5PY1967@...> wrote:
> >

> > Hello,
> >
> > Sorry, I didn't follow the whole case, but wouldn't it be possible to
> glue
> a
> > larger aluminium radiator on Q4 ?? I remember a problem with a TV
> > processor chip that drifted when heating. I removed it cutting its pins -
> > 40 or 42... - to replace using a socket, but almost shot the new one
> because
> > of a broken ground connection. Epoxying a radiator would have been much
> > easier. Just my two eurocents....
> >
> > 73's Daniel, ON5PY
> >
> >
> > 2009/4/6, w5rkl <w5rkl@...>:
> > >
> > > Hello Tate,
> > >
> > > With the additional information you provided especially giving Q4 on
> the
> AF
> > > UNIT a shot of cold air, it appears you have found the culprit that is
> > > causing your problem. The question I had was how does Q4 affect the
> > > transmitter output signal? This information may have been presented
> earlier
> > > but I may have just missed it.
> > >
> > > Here is what I think is happening to cause the RF output to drop to
> zero.
> > >
> > > When Q4 on the AF UNIT goes bananas it drags down the 12VDC supply.
> When
> > > this happens, Q29 on the IF UNIT is affected, basically shutting down
> Q29.
> > > Q29 on the IF UNIT is the "TIF" (Transmit IF) amplifier. The TIF signal
> is
> > > fed from the IF UNIT to the RF UNIT where it is mixed in Q6 and Q7 with
> the
> > > VCO signal to produce the "operating" frequency. If the TIF signal is
> > > missing in the RF UNIT then there will be no operating frequency to
> feed
> to
> > > the driver and final tubes, hence, zero RF output! By giving Q4 on the
> AF
> > > UNIT a shot of cold air, Q4 starts operating properly which brings the
> 12VDC
> > > source back to its normal level and Q29 operates normally and amplifies
> the
> > > TIF signal, the TIF and VCO signals mix in Q6 and Q7 producing the

> operating
> > > frequency and output is seen at the final amplifier.
> > >
> > > I suspect if you placed a scope on the RF UNIT's "TIF" connection and
> when
> > > Q4 on the AF UNIT goes bananas, the level of TIF signal would drop
> > > considerably which would cause the RF output to also drop. Giving Q4 a
> shot
> > > of cold air will cause the TIF signal to return and will show up on the
> > > scope and output will return from the final amplifier. A VTVM connected
> to
> > > the IF UNIT "12" pin will also show a reduction in the 12VDC supply
> when
> Q4
> > > goes bananas but will return to its normal level when Q4 s given a shot
> of
> > > cold air. Just a few thoughts I had.
> > >
> > > Good job Tate!!
> > >
> > > 73
> > > Mike
> > > W5RKL
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com<TS-520_820_530_830%2540yahoogroups.com>>
>
> <mailto:TS-520_820_530_830%40yahoogroups.com<TS-520_820_530_830%2540yahoogroups.com>
> >
> <TS-520_820_530_830%40yahoogroups.com>,
> > > "Tate Antrim" <kd8hja@> wrote:
> > > >
> > > > Ah hah!!!!
> > > >
> > > >
> > > >
> > > > SG voltage is perfect at all times (including TUNE).
> > > >
> > > >
> > > >
> > > > Very tricky. Turns out it seems to be the big audio IC on the AF
> board.
> > > > Letting the rig run for a couple of hours it will start to exhibit
> the
> > > > problem of delayed response on output finally dropping down to
> nothing.
> > > My
> > > > gut told me that something on that board is causing a problem. I
> ruled
> > > out

> > > > the PLL and such because it was displaying the correct frequency and
> > > problem
> > > > is on all bands and the display is rock solid. But what I noticed is
> that
> > > > plate current drops to 60mA in CW when you hit send.bingo.acts just
> like
> > > > USB/LSB when you hit Send and there's no audio to excite it.
> > > >
> > > >
> > > >
> > > > I put my finger on the aluminum around the AF board and it seemed
> > > > inordinately "warm" for just sitting there running. Flipping the
> switch
> > > to
> > > > send would seem to increase the overall temperature. So I got out a
> can
> > > of
> > > > canned air and blasted components around the area where it seemed a
> bit
> > > warm
> > > > and all of a sudden output jumped up to 100w instantly. Letting off
> the
> > > > cold air and output drops back to 0W.cold air on 100w out. Cold air
> > > off.0W.
> > > > Wax on, wax off. So I narrowed it down to the big IC.
> > > >
> > > >
> > > >
> > > > I noticed the other day when I have the AF board out that it looked
> like
> > > > either someone at some point replaced the chip or tried to resolder
> it
> -
> > > > either way it didn't look right. But it just didn't make the
> connection
> > > in
> > > > my head.
> > > >
> > > >
> > > >
> > > > So I think for now I'll try to get another AF board and I should be
> back
> > > in
> > > > biz with the old girl.
> > > >
> > > >
> > > >
> > > > Thanks for everyone's help.
> > > >
> > > >

> > > >
> > > > From: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com<TS-520_820_530_830%2540yahoogroups.com>>
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> >
> <TS-520_820_530_830%40yahoogroups.com>]
> > > On Behalf Of w5rkl
> > > > Sent: Sunday, April 05, 2009 4:54 PM
> > > > To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
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> >
> <TS-520_820_530_830%40yahoogroups.com>
> > > > Subject: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's
> Back!
> > > >
> > > >
> > > >
> > > > Tate,
> > > >
> > > > Check the voltage on the final amplifier's "SG" pin connection. If
> the
> > > "SG"
> > > > voltage is unstable check resistors R15 and R16, both 56K, on the
> > > Rectifier
> > > > Unit. You also might check RL1 on the Rectifier Unit. It is possible
> the
> > > > contacts are dirty.
> > > >
> > > > 73
> > > > Mike
> > > > W5RKL
> > > >
> > > >
> > > >
> > > >
> > > >
> > > > [Non-text portions of this message have been removed]
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20910. Re: TS830S - Strange Behavior - It's Back!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-12 13:23:57 UTC
From: w5rkl
Topic: 20584 Message: 20910

Tate,

The HA-1368R is a 5.3 watt audio amplifier that operates from 13.6VDC. Maximum voltage surge is 40VDC. If you want to download the data sheet, you can get it at the following website:

http://www.datasheetarchive.com/download/?url=http%3A%2F%2Fwww.datasheetarchive.com%2Fpdf-datasheets%2FDatabooks-4%2FBook-29340.pdf

I found the HA-1368 available at the following website for $3.99, no minimum order, in Orlando Florida. I have no experience with this company so you would have to check them out yourself.

http://www.acme-sales.net/portal.php?p_id=HA1368&country=USA

A price of $3.99 is quite a bit cheaper than $30 or more I have seen this chip advertised for on other other website!!!

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Daniel TOESCA <ON5PY1967@...> wrote:
>
> Hi Tate, Congrats for the good news ! About repairing the bad board, don't
> overlook replacing the defunct IC with another audio amplifier with same
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> >
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> >
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> > in a "clean" an environment. But at least I have my 830S working again.
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> > [mailto:TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>]
> > On Behalf Of Tate Antrim
> > Sent: Monday, April 06, 2009 7:32 PM
> > To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> > Subject: RE: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's
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> > with the comment that this is pulling the signal lines downstream way down.
> > It acts like switching it to usb and no drive signal.that's what got me to
> > thinking that there was something in the signal path that was sensitive to
> > heat but really wasn't a relay issue. Once the cathode resistors were
> > replaced and I had concrete proof that the IP was now "correct" and the
> > suggestion to look at SG voltage yielded a very solid level between RX and
> > TX (not to mention a couple of local hams offering suggestions on 160m last
> > night). I fired it up and said to myself that I'm not going to let this
> > girl go wither on a shelf but figure out what this problem is.
> >
> > When I was an avionics bench tech (many years ago) we had freezie stuff in
> > a
> > can and I remembered how helpful that was in determining where things were
> > having issues that canned air came to mind.giving a blast of that can frost
> > the circuitry. One blast and it popped right up but instantly went down.
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> > So now I've got a new board on the way and I'll get that component and
> > replace it on my old board then store that one away as a spare. In the
> > meantime I just want to get my favorite girl back on the air!!!!
> >
> > But really, thanks to everyone for their suggestions. Now to get a sweep
> > signal generator and a spectrum analyzer and maybe I can start a new
> > career.well.anyways.
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> > <mailto:TS-520_820_530_830%40yahoogroups.com<TS-520_820_530_830%2540yahoogroups.com>>
> >] On Behalf Of w5rkl
> > Sent: Monday, April 06, 2009 2:53 PM
> > To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> > <mailto:TS-520_820_530_830%40yahoogroups.com<TS-520_820_530_830%2540yahoogroups.com>>
> >
> > Subject: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's Back!
> >
> > Hello Daniel,
> >
> > That would be a possible solution if the chip did not have a heat sink
> > already.

> >
> > Based on Tate's comments, it appears a previous owner tried to replace the
> > chip and did a bad job of it. Whether it's possible to "clean" up the mess
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> > would suspect Tate has thought of that and possibly tried cleaning up the
> > mess. However, if Tate has tried that and no change was seen, then it does
> > appear the audio IC chip is dragging down the 12VDC supply which is
> > affecting not only the IF UNIT's Q29 but also other circuits in transmit
> > plus I also suspect receive circuits as well. Of course Tate can answer
> > whether he attempted cleaning up the mess from a previous owner.
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> > 73
> > Mike
> > W5RKL
> >
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> > > of a broken ground connection. Epoxying a radiator would have been much
> > > easier. Just my two eurocents....
> > >
> > > 73's Daniel, ON5PY
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> > >
> > > 2009/4/6, w5rkl <w5rkl@>:
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> > > > With the additional information you provided especially giving Q4 on
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> > > > > My
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> > ruled
> > > > > out
> > > > > > the PLL and such because it was displaying the correct frequency and
> > > > > problem
> > > > > > is on all bands and the display is rock solid. But what I noticed is
> > that
> > > > > > plate current drops to 60mA in CW when you hit send.bingo.acts just
> > like
> > > > > > USB/LSB when you hit Send and there's no audio to excite it.
> > > > > > >
> > > > > > >
> > > > > > >
> > > > > > I put my finger on the aluminum around the AF board and it seemed
> > > > > > inordinately "warm" for just sitting there running. Flipping the
> > switch
> > > > > to
> > > > > > send would seem to increase the overall temperature. So I got out a
> > can
> > > > > of
> > > > > > canned air and blasted components around the area where it seemed a
> > bit
> > > > > warm
> > > > > > and all of a sudden output jumped up to 100w instantly. Letting off
> > the
> > > > > > cold air and output drops back to 0W.cold air on 100w out. Cold air
> > > > > off.0W.
> > > > > > Wax on, wax off. So I narrowed it down to the big IC.
> > > > > > >
> > > > > > >
> > > > > > >

> > > > > I noticed the other day when I have the AF board out that it looked
> > like
> > > > > > either someone at some point replaced the chip or tried to resolder
> > it
> > -
> > > > > > either way it didn't look right. But it just didn't make the
> > connection
> > > > > in
> > > > > > my head.
> > > > > >
> > > > > >
> > > > > >
> > > > > > So I think for now I'll try to get another AF board and I should be
> > back
> > > > > in
> > > > > > biz with the old girl.
> > > > > >
> > > > > >
> > > > > >
> > > > > > Thanks for everyone's help.
> > > > > >
> > > > > >
> > > > > >
> > > > > > From: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
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> > >
> > <TS-520_820_530_830%40yahoogroups.com>]
> > > > > On Behalf Of w5rkl
> > > > > > Sent: Sunday, April 05, 2009 4:54 PM
> > > > > > To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> > <mailto:TS-520_820_530_830%40yahoogroups.com<TS-520_820_530_830%2540yahoogroups.com>>
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> > > > > > Subject: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's
> > Back!
> > > > > >
> > > > > >
> > > > > >
> > > > > > Tate,
> > > > > >

> > > > > Check the voltage on the final amplifier's "SG" pin connection. If
> > the
> > > > > "SG"
> > > > > voltage is unstable check resistors R15 and R16, both 56K, on the
> > > > > Rectifier
> > > > > Unit. You also might check RL1 on the Rectifier Unit. It is possible
> > the
> > > > > contacts are dirty.
> > > > > >
> > > > > > 73
> > > > > > Mike
> > > > > > W5RKL
> > > > > >
> > > > > >
> > > > > >
> > > > > >
> > > > > >
> > > > > > [Non-text portions of this message have been removed]
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20911. Re: [TS-520_820_530_830] Measuring SSB signals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-12 13:56:12 UTC
From: martin
Topic: 20908 Message: 20911

Hi Jerry. A 30Mhz scope should work just fine. As for a connection, try wrapping about 6 inches or so of hookup wire around the coax. if you son't get enough signal. try a foot of wire or so. Its quick and dirty, but it works with my ancient RCA 5 Mhz scope.

I am sure that if you do some research on the net, you can come up with other ways to connect your scope.

TTYL

James Fogg wrote:
> My apologies for such a basic question, it was even on my license exam and
> I've forgotten. I'm returning to the hobby from a very long hiatus and
> I've forgotten a lot.
>
> I have a TS-530S and a Hitachi 30Mhz oscilloscope. I'd like to display my
> SSB signal. I'm not sure how to proceed. I could just tap the antenna
> signal but I'm not sure that's the best way to do it or if a 30Mhz scope
> is fast enough. I wonder if it may be better to tap a stage prior to the
> PA's.
>
> I'm experimenting with some microphones on the 530S and would like to see
> if I'm driving things too hard and any other audio qualities that a scope
> might display.
>
> Thanks in advance.
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

20912. Re: old equipment found

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-12 14:29:45 UTC
From: k6aom
Topic: 20903 Message: 20912

--- Yes, I will take them! What is your E-MAIL?

Harry, K6AOM

--- In TS-520_820_530_830@yahoogroups.com, "Kyle" <kyle171@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, Don Thomas <satranger1@> wrote:
> >
> > The HP 200CD is an audio oscillator and the Heath Q multiplier was used with vintage receivers to improve selectivity I believe. If you don't need them, I'm sure someone on the list would be more than happy to pay postage to take them off your hands. You probably don't have a use for the Heath Q-1, but the HP if it works would be quite useful for troubleshooting or building audio circuits. Too bad bout the tower.
> >
> > http://oak.cats.ohiou.edu/~postr/bapix/HP200CD.htm
> >
> > Don T.
> >
>
> I can say right now that I have no use for these two items. Both seem to be in good condition, however someone cut the power cord off the HP200CD. Copper recycling folks?
> ya, anybody want them?
>

20913. RE: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's Back!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-12 17:24:08 UTC
From: Tate Antrim
Topic: 20584 Message: 20913

Wow.I've not found them anywhere.that's fantastic. I'll get a few of those
and keep them on hand.

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
Sent: Sunday, April 12, 2009 9:24 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's Back!

Tate,

The HA-1368R is a 5.3 watt audio amplifier that operates from 13.6VDC.
Maximum voltage surge is 40VDC. If you want to download the data sheet, you
can get it at the following website:

http://www.datasheetarchive.com/download/?url=http%3A%2F%2Fwww.datasheetarch
ive.com%2Fpdf-datasheets%2FDatabooks-4%2FBook-29340.pdf

I found the HA-1368 available at the following website for $3.99, no minimum
order, in Orlando Florida. I have no experience with this company so you
would have to check them out yourself.

http://www.acme-sales.net/portal.php?p_id=HA1368
<http://www.acme-sales.net/portal.php?p_id=HA1368&country=USA> &country=USA

A price of $3.99 is quite a bit cheaper than $30 or more I have seen this
chip advertised for on other other website!!!

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com> , Daniel TOESCA
<ON5PY1967@...> wrote:
>
> Hi Tate, Congrats for the good news ! About repairing the bad board, don't
> overlook replacing the defunct IC with another audio amplifier with same
> audio output power, if space is not a problem. I know you need LOTS of
luck
> to find replacement ICs these days... 73's - Daniel, ON5PY
>
> 2009/4/10, Tate Antrim <kd8hja@...>:
> >
> >
> >
> > Good news.I got a replacement AF board hooked it up and have a fully

> > functioning 830S. The component that went bad is the HA1368R audio amp.
> > Cooling it with compressed air would bring the rig up to full power
> > instantly. Letting it warm back up and the power would drop off
instantly.
> >
> > As it is now, I'm trying to find a new one (well a NOS one) and redo my
> > board so that I have a spare.
> >
> > Incidentally, the replacement board had some work done on it as well to
> > replace the relay in corner and comparing it to mine noticed that it was
> > not
> > in a "clean" an environment. But at least I have my 830S working again.
> >
> > From: TS-520_820_530_830@yahoogroups.com
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<TS-520_820_530_830%40yahoogroups.com>]
> > On Behalf Of Tate Antrim
> > Sent: Monday, April 06, 2009 7:32 PM
> > To: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
<TS-520_820_530_830%40yahoogroups.com>
> > Subject: RE: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's
> > Back!
> >
> > Hey everyone.
> >
> > I'm going to get a replacement AF board and pop that in for now. I agree
> > with the comment that this is pulling the signal lines downstream way
down.
> > It acts like switching it to usb and no drive signal.that's what got me
to
> > thinking that there was something in the signal path that was sensitive
to
> > heat but really wasn't a relay issue. Once the cathode resistors were
> > replaced and I had concrete proof that the IP was now "correct" and the
> > suggestion to look at SG voltage yielded a very solid level between RX
and
> > TX (not to mention a couple of local hams offering suggestions on 160m
last
> > night). I fired it up and said to myself that I'm not going to let this
> > girl go wither on a shelf but figure out what this problem is.
> >
> > When I was an avionics bench tech (many years ago) we had freezie stuff
in
> > a
> > can and I remembered how helpful that was in determining where things
were

> > having issues that canned air came to mind.giving a blast of that can
frost
> > the circuitry. One blast and it popped right up but instantly went down.
> >
> > So now I've got a new board on the way and I'll get that component and
> > replace it on my old board then store that one away as a spare. In the
> > meantime I just want to get my favorite girl back on the air!!!!
> >
> > But really, thanks to everyone for their suggestions. Now to get a sweep
> > signal generator and a spectrum analyzer and maybe I can start a new
> > career.well.anyways.
> >
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> >] On Behalf Of w5rkl
> > Sent: Monday, April 06, 2009 2:53 PM
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<mailto:TS-520_820_530_830%40yahoogroups.com>
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> > > > > the PLL and such because it was displaying the correct frequency
and
> > > > problem
> > > > > is on all bands and the display is rock solid. But what I noticed
is
> > that
> > > > > plate current drops to 60mA in CW when you hit send.bingo.acts

just
> > like
> > > > > USB/LSB when you hit Send and there's no audio to excite it.
> > > > >
> > > > >
> > > > >
> > > > > I put my finger on the aluminum around the AF board and it seemed
> > > > > inordinately "warm" for just sitting there running. Flipping the
> > switch
> > > > > to
> > > > > send would seem to increase the overall temperature. So I got out
a
> > can
> > > > > of
> > > > > canned air and blasted components around the area where it seemed
a
> > bit
> > > > > warm
> > > > > and all of a sudden output jumped up to 100w instantly. Letting
off
> > the
> > > > > cold air and output drops back to 0W.cold air on 100w out. Cold
air
> > > > > off.0W.
> > > > > Wax on, wax off. So I narrowed it down to the big IC.
> > > > >
> > > > >
> > > > >
> > > > > I noticed the other day when I have the AF board out that it
looked
> > like
> > > > > either someone at some point replaced the chip or tried to
resolder
> > it
> > -
> > > > > either way it didn't look right. But it just didn't make the
> > connection
> > > > > in
> > > > > my head.
> > > > >
> > > > >
> > > > >
> > > > > So I think for now I'll try to get another AF board and I should
be
> > back
> > > > > in
> > > > > biz with the old girl.
> > > > >
> > > > >
> > > > >

> > > > > Thanks for everyone's help.
> > > > >
> > > > >
> > > > >
> > > > > From: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
<TS-520_820_530_830%40yahoogroups.com>
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> > <TS-520_820_530_830%40yahoogroups.com>
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ups.com>
> > >
> > <TS-520_820_530_830%40yahoogroups.com>]
> > > > On Behalf Of w5rkl
> > > > > Sent: Sunday, April 05, 2009 4:54 PM
> > > > > To: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
<TS-520_820_530_830%40yahoogroups.com>
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ups.com>
> > >
> > <TS-520_820_530_830%40yahoogroups.com>
> > > > > Subject: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's
> > Back!
> > > > > >
> > > > > >
> > > > > >
> > > > > > Tate,
> > > > > >
> > > > > > Check the voltage on the final amplifier's "SG" pin connection. If

> > the
> > > > "SG"
> > > > > voltage is unstable check resistors R15 and R16, both 56K, on the
> > > > Rectifier
> > > > > Unit. You also might check RL1 on the Rectifier Unit. It is
possible
> > the
> > > > > > contacts are dirty.
> > > > > >
> > > > > > 73
> > > > > > Mike
> > > > > > W5RKL
> > > > > >
> > > > > >
> > > > > >
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> > > > > >
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20914. Re: [TS-520_820_530_830] Re: Strange issue with the carrier controll

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-12 17:30:35 UTC
From: W5RKL
Topic: 20746 Message: 20914

Chris,

This may seem silly or something we believe hams simply don't do but it does happen, more often than you may think!

73
Mike
W5RKL

--- On Sat, 4/11/09, Christopher Maness <chris@...> wrote:
> When using a separate receiver, DO NOT connect the separate receiver to the 520!! Doing so can damage the separate receiver.
>
<snip>

Wow, did someone actually hook there transmitter straight to their reciever?
;o)

<snip>

[Non-text portions of this message have been removed]

20915. RE: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's Back!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-12 17:31:54 UTC
From: Tate Antrim
Topic: 20584 Message: 20915

OH.now I understand the /R.can't use the 1368 due to the way the device is attached to the heat sink. I'd have to use the /R. The quest continues

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
Sent: Sunday, April 12, 2009 9:24 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's Back!

Tate,

The HA-1368R is a 5.3 watt audio amplifier that operates from 13.6VDC. Maximum voltage surge is 40VDC. If you want to download the data sheet, you can get it at the following website:

http://www.datasheetarchive.com/download/?url=http%3A%2F%2Fwww.datasheetarchive.com%2Fpdf-datasheets%2FDatabooks-4%2FBook-29340.pdf

I found the HA-1368 available at the following website for $3.99, no minimum order, in Orlando Florida. I have no experience with this company so you would have to check them out yourself.

http://www.acme-sales.net/portal.php?p_id=HA1368
<http://www.acme-sales.net/portal.php?p_id=HA1368&country=USA> &country=USA

A price of $3.99 is quite a bit cheaper than $30 or more I have seen this chip advertised for on other other website!!!

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com> , Daniel TOESCA
<ON5PY1967@...> wrote:
>
> Hi Tate, Congrats for the good news ! About repairing the bad board, don't
> overlook replacing the defunct IC with another audio amplifier with same
> audio output power, if space is not a problem. I know you need LOTS of
luck
> to find replacement ICs these days... 73's - Daniel, ON5PY
>
> 2009/4/10, Tate Antrim <kd8hja@...>:
> >
> >
> >
> > Good news.I got a replacement AF board hooked it up and have a fully

> > functioning 830S. The component that went bad is the HA1368R audio amp.
> > Cooling it with compressed air would bring the rig up to full power
> > instantly. Letting it warm back up and the power would drop off
instantly.
> >
> > As it is now, I'm trying to find a new one (well a NOS one) and redo my
> > board so that I have a spare.
> >
> > Incidentally, the replacement board had some work done on it as well to
> > replace the relay in corner and comparing it to mine noticed that it was
> > not
> > in a "clean" an environment. But at least I have my 830S working again.
> >
> > From: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
<TS-520_820_530_830%40yahoogroups.com>
> > [mailto:TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
<TS-520_820_530_830%40yahoogroups.com>]
> > On Behalf Of Tate Antrim
> > Sent: Monday, April 06, 2009 7:32 PM
> > To: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
<TS-520_820_530_830%40yahoogroups.com>
> > Subject: RE: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's
> > Back!
> >
> > Hey everyone.
> >
> > I'm going to get a replacement AF board and pop that in for now. I agree
> > with the comment that this is pulling the signal lines downstream way
down.
> > It acts like switching it to usb and no drive signal.that's what got me
to
> > thinking that there was something in the signal path that was sensitive
to
> > heat but really wasn't a relay issue. Once the cathode resistors were
> > replaced and I had concrete proof that the IP was now "correct" and the
> > suggestion to look at SG voltage yielded a very solid level between RX
and
> > TX (not to mention a couple of local hams offering suggestions on 160m
last
> > night). I fired it up and said to myself that I'm not going to let this
> > girl go wither on a shelf but figure out what this problem is.
> >
> > When I was an avionics bench tech (many years ago) we had freezie stuff
in
> > a
> > can and I remembered how helpful that was in determining where things
were

> > having issues that canned air came to mind.giving a blast of that can
frost
> > the circuitry. One blast and it popped right up but instantly went down.
> >
> > So now I've got a new board on the way and I'll get that component and
> > replace it on my old board then store that one away as a spare. In the
> > meantime I just want to get my favorite girl back on the air!!!!
> >
> > But really, thanks to everyone for their suggestions. Now to get a sweep
> > signal generator and a spectrum analyzer and maybe I can start a new
> > career.well.anyways.
> >
> > From: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
<TS-520_820_530_830%40yahoogroups.com>
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> >
<mailto:TS-520_820_530_830%40yahoogroups.com<TS-520_820_530_830%2540yahoogro
ups.com>>
> >] On Behalf Of w5rkl
> > Sent: Monday, April 06, 2009 2:53 PM
> > To: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
<TS-520_820_530_830%40yahoogroups.com>
> >
<mailto:TS-520_820_530_830%40yahoogroups.com<TS-520_820_530_830%2540yahoogro
ups.com>>
> >
> > Subject: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's Back!
> >
> > Hello Daniel,
> >
> > That would be a possible solution if the chip did not have a heat sink
> > already.
> >
> > Based on Tate's comments, it appears a previous owner tried to replace
the
> > chip and did a bad job of it. Whether it's possible to "clean" up the
mess
> > the previous owner made, at least for my point of view, is not known. I
> > would suspect Tate has thought of that and possibly tried cleaning up
the
> > mess. However, if Tate has tried that and no change was seen, then it
does

> > appear the audio IC chip is dragging down the 12VDC supply which is
> > affecting not only the IF UNIT's Q29 but also other circuits in transmit
> > plus I also suspect receive circuits as well. Of course Tate can answer
> > whether he attempted cleaning up the mess from a previous owner.
> >
> > 73
> > Mike
> > W5RKL
> >
> > --- In TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
<TS-520_820_530_830%40yahoogroups.com>
> >
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ups.com>>
> >
> >
<mailto:TS-520_820_530_830%40yahoogroups.com<TS-520_820_530_830%2540yahoogro
ups.com>>
> > , Daniel TOESCA
> > <ON5PY1967@> wrote:
> > >
> > > Hello,
> > >
> > > Sorry, I didn't follow the whole case, but wouldn't it be possible to
> > glue
> > a
> > > larger aluminium radiator on Q4 ?? I remember a problem with a TV
> > > processor chip that drifted when heating. I removed it cutting its
pins -
> > > 40 or 42... - to replace using a socket, but almost shot the new one
> > because
> > > of a broken ground connection. Epoxying a radiator would have been
much
> > > easier. Just my two eurocents....
> > >
> > > 73's Daniel, ON5PY
> > >
> > >
> > > 2009/4/6, w5rkl <w5rkl@>:
> > > >
> > > > Hello Tate,
> > > >
> > > > With the additional information you provided especially giving Q4 on
> > the
> > AF
> > > > UNIT a shot of cold air, it appears you have found the culprit that
is
> > > > causing your problem. The question I had was how does Q4 affect the
> > > > transmitter output signal? This information may have been presented

> > earlier
> > > > but I may have just missed it.
> > > >
> > > > Here is what I think is happening to cause the RF output to drop to
> > zero.
> > > >
> > > > When Q4 on the AF UNIT goes bananas it drags down the 12VDC supply.
> > When
> > > > this happens, Q29 on the IF UNIT is affected, basically shutting
down
> > Q29.
> > > > Q29 on the IF UNIT is the "TIF" (Transmit IF) amplifier. The TIF
signal
> > is
> > > > fed from the IF UNIT to the RF UNIT where it is mixed in Q6 and Q7
with
> > the
> > > > VCO signal to produce the "operating" frequency. If the TIF signal
is
> > > > missing in the RF UNIT then there will be no operating frequency to
> > feed
> > to
> > > > the driver and final tubes, hence, zero RF output! By giving Q4 on
the
> > AF
> > > > UNIT a shot of cold air, Q4 starts operating properly which brings
the
> > 12VDC
> > > > source back to its normal level and Q29 operates normally and
amplifies
> > the
> > > > TIF signal, the TIF and VCO signals mix in Q6 and Q7 producing the
> > operating
> > > > frequency and output is seen at the final amplifier.
> > > >
> > > > I suspect if you placed a scope on the RF UNIT's "TIF" connection
and
> > when
> > > > Q4 on the AF UNIT goes bananas, the level of TIF signal would drop
> > > > considerably which would cause the RF output to also drop. Giving Q4
a
> > shot
> > > > of cold air will cause the TIF signal to return and will show up on
the
> > > > scope and output will return from the final amplifier. A VTVM
connected
> > to
> > > > the IF UNIT "12" pin will also show a reduction in the 12VDC supply
> > when
> > Q4

> > > > goes bananas but will return to its normal level when Q4 s given a
shot
> > of
> > > > cold air. Just a few thoughts I had.
> > > >
> > > > Good job Tate!!
> > > >
> > > > 73
> > > > Mike
> > > > W5RKL
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com
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ups.com>>
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ups.com>
> > >
> > <TS-520_820_530_830%40yahoogroups.com>,
> > > > "Tate Antrim" <kd8hja@> wrote:
> > > > >
> > > > > Ah hah!!!!
> > > > >
> > > > >
> > > > >
> > > > > SG voltage is perfect at all times (including TUNE).
> > > > >
> > > > >
> > > > >
> > > > > Very tricky. Turns out it seems to be the big audio IC on the AF
> > board.
> > > > > Letting the rig run for a couple of hours it will start to exhibit
> > the
> > > > > problem of delayed response on output finally dropping down to
> > nothing.
> > > > My
> > > > > gut told me that something on that board is causing a problem. I
> > ruled
> > > > out
> > > > > the PLL and such because it was displaying the correct frequency
and
> > > > problem
> > > > > is on all bands and the display is rock solid. But what I noticed
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> > > > > I put my finger on the aluminum around the AF board and it seemed
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> > > > > and all of a sudden output jumped up to 100w instantly. Letting
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> > > > > I noticed the other day when I have the AF board out that it
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> > -
> > > > > either way it didn't look right. But it just didn't make the
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> > > > >
> > > > >
> > > > >
> > > > > So I think for now I'll try to get another AF board and I should
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> > back
> > > > > in
> > > > > biz with the old girl.
> > > > >
> > > > >
> > > > >

> > > > > Thanks for everyone's help.
> > > > >
> > > > >
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> > > > On Behalf Of w5rkl
> > > > > Sent: Sunday, April 05, 2009 4:54 PM
> > > > > To: TS-520_820_530_830@yahoogroups.com
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ups.com>
> > >
> > <TS-520_820_530_830%40yahoogroups.com>
> > > > > Subject: [TS-520_820_530_830] Re: TS830S - Strange Behavior - It's
> > Back!
> > > > > >
> > > > > >
> > > > > >
> > > > > > Tate,
> > > > > >
> > > > > > Check the voltage on the final amplifier's "SG" pin connection. If

> > the
> > > > "SG"
> > > > > voltage is unstable check resistors R15 and R16, both 56K, on the
> > > > Rectifier
> > > > > Unit. You also might check RL1 on the Rectifier Unit. It is
possible
> > the
> > > > > > contacts are dirty.
> > > > > >
> > > > > > 73
> > > > > > Mike
> > > > > > W5RKL
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20916. Re: [TS-520_820_530_830] Re: Strange issue with the carrier controll

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-12 17:51:04 UTC
From: Peter A Markavage
Topic: 20746 Message: 20916

The best way to do this is to use an external mechanical relay or an electronic T/R switch. Back in the "good old days" electronic T/R switches were often used to connect a separate transmitter and receiver to one antenna.

Pete, wa2cwa

> --- On Sat, 4/11/09, Christopher Maness <chris@...>
> wrote:
> > When using a separate receiver, DO NOT connect the separate
> receiver to
> the 520!! Doing so can damage the separate receiver.
> >
> <snip>
>
> Wow, did someone actually hook there transmitter straight to their
> reciever?
> ;o)

20917. Re: [TS-520_820_530_830] Measuring SSB signals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-12 17:55:55 UTC
From: Peter A Markavage
Topic: 20908 Message: 20917

Here's a simple solution for a RF pickup:
http://amfone.net/ECSound/K1JJ8.htm

Pete, wa2cwa

On Sun, 12 Apr 2009 08:29:51 -0400 (EDT) "James Fogg" <james@...>
writes:
> My apologies for such a basic question, it was even on my license
> exam and
> I've forgotten. I'm returning to the hobby from a very long hiatus
> and
> I've forgotten a lot.
>
> I have a TS-530S and a Hitachi 30Mhz oscilloscope. I'd like to
> display my
> SSB signal. I'm not sure how to proceed. I could just tap the
> antenna
> signal but I'm not sure that's the best way to do it or if a 30Mhz
> scope
> is fast enough. I wonder if it may be better to tap a stage prior to
> the
> PA's.
>
> I'm experimenting with some microphones on the 530S and would like
> to see
> if I'm driving things too hard and any other audio qualities that a
> scope
> might display.
>
> Thanks in advance.
>
>
> --
> James -
> Certified autodidactic polymath

20918. Re: Strange issue with the carrier controll

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-12 18:34:42 UTC
From: w5rkl
Topic: 20746 Message: 20918

Pete,

I agree "IF" this were a separate transmitter and receiver setup but it's not. The separate receive is not being used in conjunction with the TS-520's normal operation.

The separate receiver and it's S meter is used as an indicator while adjusting a transceiver's carrier null controls. Once the TS-520's carrier null controls are adjusted for the lowest S meter reading on the separate receiver, the separate receiver is no longer needed.

I suppose a dow key relay or some other relay setup could be used but, it's easier to use a short length of wire with one end connected to the separate receiver's antenna connection and the other end of the wire placed close to the TS-520's coax. No physical connection to the TS-520 is done, just place next to the 520's coax cable to pick up the signal from the 520, nothing more.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage <pmarkavage@...> wrote:
>
> The best way to do this is to use an external mechanical relay or an
> electronic T/R switch. Back in the "good old days" electronic T/R
> switches were often used to connect a separate transmitter and receiver
> to one antenna.
>
> Pete, wa2cwa
>
> > --- On Sat, 4/11/09, Christopher Maness <chris@...>
> > wrote:
> > > When using a separate receiver, DO NOT connect the separate
> > receiver to
> > the 520!! Doing so can damage the separate receiver.
> > >
> > <snip>
> >
> > Wow, did someone actually hook there transmitter straight to their
> > reciever?
> > ;o)
>

20919. Re: [TS-520_820_530_830] Re: Strange issue with the carrier controll

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-12 18:54:42 UTC
From: Peter A Markavage
Topic: 20746 Message: 20919

Agreed. I didn't read all the previous posts, so wasn't aware what lead up to the discussion. A simple short antenna lead is all that's needed for this adjustment although I prefer using a scope for carrier null adjustments.

Pete, wa2cwa

On Sun, 12 Apr 2009 18:34:42 -0000 "w5rkl" <w5rkl@...> writes:
> Pete,
>
> I agree "IF" this were a separate transmitter and receiver setup but
> it's not. The separate receive is not being used in conjunction with
> the TS-520's normal operation.
>
> The separate receiver and it's S meter is used as an indicator while
> adjusting a transceiver's carrier null controls. Once the TS-520's
> carrier null controls are adjusted for the lowest S meter reading on
> the separate receiver, the separate receiver is no longer needed.
>
> I suppose a dow key relay or some other relay setup could be used
> but, it's easier to use a short length of wire with one end
> connected to the separate receiver's antenna connection and the
> other end of the wire placed close to the TS-520's coax. No physical
> connection to the TS-520 is done, just place next to the 520's coax
> cable to pick up the signal from the 520, nothing more.
>
> 73
> Mike
> W5RKL

20920. Re: [TS-520_820_530_830] Re: Strange issue with the carrier controll

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-12 22:28:50 UTC
From: Christopher Maness
Topic: 20746 Message: 20920

w5rkl wrote:
> Pete,
>
> I agree "IF" this were a separate transmitter and receiver setup but it's not. The separate receive is not being used in conjunction with the TS-520's normal operation.
>
> The separate receiver and it's S meter is used as an indicator while adjusting a transceiver's carrier null controls. Once the TS-520's carrier null controls are adjusted for the lowest S meter reading on the separate receiver, the separate receiver is no longer needed.
>
> I suppose a dow key relay or some other relay setup could be used but, it's easier to use a short length of wire with one end connected to the separate receiver's antenna connection and the other end of the wire placed close to the TS-520's coax. No physical connection to the TS-520 is done, just place next to the 520's coax cable to pick up the signal from the 520, nothing more.
>
> 73
> Mike
> W5RKL
>
>
>
Mike, I suppose I will need a non conductive set of "tunning"
screwdrivers. Correct? I listened to the carrier on my IC-761, and it
was definitely there. Is the carrier supposed to _completely_ go away.
or will I always hear it there a little? (I have not tuned it yet
because I do not have insulated tuning tools yet).

Chris KQ6UP

20921. TS-530S TS-830S Non Working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-12 23:22:29 UTC
From: Gordon
Topic: 20921 Message: 20921

Have a TS-530S or TS-830s that is not working or has problems, that you want to sell? I am looking for some Project or Tech special radios to repair.
Please contact me off-list.

Thanks,
Gordon
N6WK

20922. Re: [TS-520_820_530_830] Re: Strange issue with the carrier controll

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-13 01:23:49 UTC
From: Christopher Maness
Topic: 20746 Message: 20922

Peter A Markavage wrote:
> Agreed. I didn't read all the previous posts, so wasn't aware what lead
> up to the discussion. A simple short antenna lead is all that's needed
> for this adjustment although I prefer using a scope for carrier null
> adjustments.
>
> Pete, wa2cwa
I did the adjustment. I used a 1/4 wave vertical antenna for 220 Mhz as my little sniffer antenna on the other radio. I was able to get the carrier to all but completely disappear on upper and lower sideband. However, all problems remain. The lack of transmit audio I attribute to a bad mic (or mis wired). The mic was a junk box mic that I had never used. I need to find someone in the club that has a known working Kenwood mic to try. I get an audio hum instead of transmit audio, so that tells me that the audio stage is working. It sounds like faulty mic wiring that I hear doing sound at church.

The other issues:

Tone on both sides of the carrier in CW mode only (the correct sideband has a larger signal, but the wrong one is WAY to strong). It works fine listening to CW in USB or LSB mode, I only hear carrier in the correct SB when listening.

In CW mode the CARRIER control is working backwards. I get more power as I turn the carrier knob down. This does not seem to be erratic such as with a dirty pot or something.

Other than that, it is a beautiful rig (9.5 aesthetically). This rig is new to me. I purchased it for $150 at the Salvation Army. I can't wait to get it running to spec, and a CW filter for it.

Thanks,
Chris KQ6UP

20923. Re: [TS-520_820_530_830] Re: Strange issue with the carrier controll

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-13 01:51:33 UTC
From: Christopher Maness
Topic: 20746 Message: 20923

w5rkl wrote:
> Hello Chris,
>
> The CAR control varies a positive DC voltage that is applied to the balance modulator (balance modulator is located on the GENERATOR UNIT X52-1090-00) in TUNE and CW mode. The source for the 9VDC originates on the FIX CH AVR Unit (X42-1100-00).
>
> The CAR control is active ONLY in TUNE and CW mode. The CAR control is NOT active in either USB or LSB.
>
> To check and adjust the 9VDC and 3.3VDC, perform the following simple steps:
>
> 1. Measure the voltage on the FIX CH AVR Unit's "9" terminal. If necessary, adjust VR1 on the FIX CH AVR Unit for 9VDC +/- .1VDC.
>
> 2. Measure the voltage on the RF-1 terminal also on the FIX CH AVR Unit. If necessary, adjust VR3 on the FIX CH AVR Unit for 3.3VDC +/- .1VDC.
>
> Adjust the 9VDC "FIRST" then adjust the 3.3VDC. The above adjustments are found in the TS-520S service manual on page 45 "RECEIVER SECTION" at paragraph "2" titled "SETTING THE 9 VOLT POWER SUPPLY and FET BIAS SUPPLY VOLTAGE". The 9VDC powers not only the VFO, both internal and, if used, external, plus a number of other circuits. The 9VDC flows through the FUNCTION switch AND pins 8 and 9 on the rear 9 pin external VFO socket. Clean the FUNCTION switch with contact cleaner (DeoXit) and ensure the connection at the rear 9 pin VFO socket are clean and secure. Clean the plugs that plug into the rear of the VFO.
>
> The procedures for adjusting the carrier null are contained in the TS-520S service manual on page 50 under the section titled "BALANCE MODULATOR AND CARRIER ADJUSTMENT".
>
> Clean the CAR control with contact cleaner, remove excess contact cleaner with canned air and test for proper operation of the CAR control, correct RF output, and check for carrier in sideband mode.
>
>
> If you do not have the TS-520S operator and service manuals, you can download them free at the following website:
>
> http://www.n6wk.com/kenwood/
>
> 73
> Mike
> W5RKL
I did the carrier balance before I did the voltage adjustments. I guess
I will probably have to null the carrier again after making the voltage
adjustments. I am also assuming that the carrier balance for U and LSB

is not going to effect how the CARRIER knob works, but the voltage adjustment might fix the issue.

Thanks,
Chris KQ6UP

20924. TS-820S RF Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-13 04:08:30 UTC
From: jsloss
Topic: 20924 Message: 20924

My 820's RF board is acting up w/ no ALC reading in TUNE, weak crystal calibrator signal on all bands, and there may be more. Have isolated problems to this board by board substitutions.

I wonder if anyone is set up to service this board while it is in a working 820S. I suspect the culprit is in the ALC and or Mixer components. Hate to arbitrarily replace parts.

Another option would be to find a good RF board that is available.

Thanks,

Joe k7mks

[Non-text portions of this message have been removed]

20925. Re: TS-820S RF Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-13 12:16:41 UTC
From: w5rkl
Topic: 20924 Message: 20925

Hello Joe,

In TUNE mode, missing ALC can normally be traced to defective resistors R5 and R6 on the HV UNIT. Check and, if necessary, replace both R5 and R6 (both are 56K 1/2 watt).

It's possible that Q2 and possibly Q3 on the RF UNIT are being partially cut off in receive. Check Q2 and Q3's G1 voltage in receive. It should be as follows:

Q2 G1
+2VDC (receive)
-3.5VDC (transmit)

Q3 G1
+2.1VDC (receive)
-3.3VDC (transmit)

A less positive or even slightly negative voltage on Q2 and/or Q3's G1 pin can significantly reduce Q2 and/or Q3's ability to amplify an incoming or Marker signal appearing at Q2's G1 pin.

Also check Q2's Drain voltage. Measure this at the RF UNIT's "MD" pin and ground. Band switch and MODE settings does not matter. It should be as follows:

+13.5VDC (receive)
+12.8VDC (transmit)

You can also inject a signal at the junction of C24 and R45 on the RF UNIT. Keep the signal level low so as not to over drive Q3. If this produces an S9 plus S meter reading then it's quite possible that either Q2 is bad or Q2's associated components have failed.

An improperly adjusted T2, the RF UNIT's receiver mixer (Q6 and Q7) output transformer can significantly affect the level of "RIF" signal (8.830Mhz) that is fed to the IF UNIT.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "jsloss" <k7mks@...> wrote:
>
> My 820's RF board is acting up w/ no ALC reading in TUNE, weak crystal calibrator signal on all bands, and there may be more. Have isolated problems to this board by board substitutions.
>
> I wonder if anyone is set up to service this board while it is in a working 820S. I suspect the culprit is in the ALC and or Mixer components. Hate to arbitrarily replace parts.
>
> Another option would be to find a good RF board that is available.

>
> Thanks,
>
> Joe k7mks
>
> [Non-text portions of this message have been removed]
>

20926. Re: [TS-520_820_530_830] Re: TS-820S RF Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-13 14:31:46 UTC
From: jsloss
Topic: 20924 Message: 20926

Mike:

Both R5 and R6 are OK as another RF board I have works just fine in this 820.

Thanks for your thoughts on the weak receive. This board has either one or two problems:

1 There is something that is causing loss of ALC reading in XMT and loss of signal in RCVE...or

2 There are two problems with one associated with the ALC and one associated with weak receive.

Back to the drawing board. Plugging in a known good RF board into this 820 corrects both problems.

Joe

[Non-text portions of this message have been removed]

20927. Re: Measuring SSB signals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-13 11:01:34 UTC
From: jameshharrison@btinternet.com
Topic: 20908 Message: 20927

You must connect you oscilloscope probe across a 50 ohm dummy load then calculate the power output using - P(out)=V2/8R (power out equals V squared divided by 8 X 50). Where P = peak to peak voltage. (ie where peak to peak voltage = 100 then 10000/400 = 25W). --- In TS-520_820_530_830@yahoogroups.com, "James Fogg" <james@...> wrote:

>
> My apologies for such a basic question, it was even on my license exam and
> I've forgotten. I'm returning to the hobby from a very long hiatus and
> I've forgotten a lot.
>
> I have a TS-530S and a Hitachi 30Mhz oscilloscope. I'd like to display my
> SSB signal. I'm not sure how to proceed. I could just tap the antenna
> signal but I'm not sure that's the best way to do it or if a 30Mhz scope
> is fast enough. I wonder if it may be better to tap a stage prior to the
> PA's.
>
> I'm experimenting with some microphones on the 530S and would like to see
> if I'm driving things too hard and any other audio qualities that a scope
> might display.
>
> Thanks in advance.
>
>
> --
> James -
> Certified autodidactic polymath
>

20928. Need to get rid of equipment

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-13 14:04:43 UTC
From: kj4dfj
Topic: 20928 Message: 20928

I have two TS-820's, a SP-820 and and MC-50 mic that I need to get rid of. One of the 820's receieves but will not tune up and the other 820 died last night as I was tuning it up. I do not have the knowledge to work with these rigs and to be honest it wasn't very nice of me to get them in the first place. This group has been a wealth of knowledge for me but I'm honestly out of my league with these radio. I would like to sell it all together, but will divide if need be. Equipment goes to individual who makes best offer, plus shipping. Thanks for your time and please contact me off group and I will have pictures to send.

Thanks,
John
KJ4DFJ

20929. Re: TS-820S RF Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-13 17:55:28 UTC
From: w5rkl
Topic: 20924 Message: 20929

Hi Joe,

Q5 on the RF UNIT is the ALC amplifier. If Q5 is bad there will be no ALC in TUNE, USB, or LSB. ALC isn't used in CW mode so there will not be any indication of ALC at any power output level (CAR setting) in CW mode.

Check Q5 on the RF UNIT, I suspect it's bad.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "jsloss" <k7mks@...> wrote:
>
> Mike:
>
> Both R5 and R6 are OK as another RF board I have works just fine in this 820.
>
> Thanks for your thoughts on the weak receive. This board has either one or two problems:
>
> 1 There is something that is causing loss of ALC reading in XMT and loss of signal in RCVE...or
>
> 2 There are two problems with one associated with the ALC and one associated with weak receive.
>
> Back to the drawing board. Plugging in a known good RF board into this 820 corrects both problems.
>
>
>
> Joe
>
> [Non-text portions of this message have been removed]
>

20930. Re: Need to get rid of equipment

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-13 21:52:03 UTC
From: Gordon
Topic: 20928 Message: 20930

Hi John,
I have sent you 2 or 3 Emails but No replies.
Have you received them?
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "kj4dfj" <kj4dfj@...> wrote:
>
> I have two TS-820's, a SP-820 and and MC-50 mic that I need to get rid of. One of the 820's receieves but will not tune up and the other 820 died last night as I was tuning it up. I do not have the knowledge to work with these rigs and to be honest it wasn't very nice of me to get them in the first place. This group has been a wealth of knowledge for me but I'm honestly out of my league with these radio. I would like to sell it all together, but will divide if need be. Equipment goes to individual who makes best offer, plus shipping. Thanks for your time and please contact me off group and I will have pictures to send.
>
> Thanks,
> John
> KJ4DFJ
>

20931. Re: The time has came!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-14 02:16:57 UTC
From: Kyle
Topic: 20877 Message: 20931

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce MM3YEQ <gordon@...> wrote:
>
> On Sun, 2009-04-12 at 10:02 +0100, richard wrote:
>
> > Cant resist can you,
> > IF you had read the original mail you would have read moles
> > Moles like rats are territorial and will attack any object in their way.
> > If you put a pipe in the same place as one of their runs and its big
> > enough for them to get into they will use that instead. Anything inside
> > the pipe thats in their way will get attacked as well.
>
> That's why you use a transit block at each end. Of course, if you've
> got such a massive rodent or mole problem that they're even attacking
> your conduit, you really need to look at getting some pest control
> people in.
>
> FWIW, I've always buried my coax in short runs of pipes, down about 18"
> or so. Despite having quite a lot of moles around, I've never had my
> coax chewed. Maybe the cats scare them off?
>
> Gordon
>

I don`t remember when or where but I believe I have read some where that if you have moles, squirils, rabbits, and any other rodents in your yard they have a tendency to chew on your coax. None of the less I`m going to have to bury the cable especially before I break out the lawn mower or before I trip myself again. I like the idea burying the coax inside of pvc tube. I`m not sure what transit blocks are? But I was thinking of where the coax enters & exit the pvc tube I will have something like a sink trap (upside down j figure)and devise a way to keep any rodents and water from getting in. Of course the pvc tube will be big enough to add an extra coax or two for an additional antennas. Someone suggested that I drill a few small holes on the bottom of the tube for water drainage. It`s about 30ft from antenna to shack in a strait line. I wish I had one of those ditch digger machines:)
I`m wondering how hard it will be to string a good quality coax thru the tube when or if I`1l be needing to? Right now I`m usuing cheap radio shack (rg-58?) coax laying on the ground but will be replacing that when ever I get around to it. Although it`s working fine for now.
Thx for suggestions. Kyle N0MKH

20932. Re: Need to get rid of equipment

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-14 07:51:13 UTC
From: markcurry65
Topic: 20928 Message: 20932

Hi John

I am after the MC-50 mic to complete my set up in the shack if it is still availible. what do you want for it? set a price.

regards
Mark
vk4mon

-- In TS-520_820_530_830@yahoogroups.com, "kj4dfj" <kj4dfj@...> wrote:
>
> I have two TS-820's, a SP-820 and and MC-50 mic that I need to get rid of. One of the 820's receieves but will not tune up and the other 820 died last night as I was tuning it up. I do not have the knowledge to work with these rigs and to be honest it wasn't very nice of me to get them in the first place. This group has been a wealth of knowledge for me but I'm honestly out of my league with these radio. I would like to sell it all together, but will divide if need be. Equipment goes to individual who makes best offer, plus shipping. Thanks for your time and please contact me off group and I will have pictures to send.
>
> Thanks,
> John
> KJ4DFJ
>

20933. Contacting Ken K4EAA

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-14 13:21:28 UTC
From: waterfield55
Topic: 20933 Message: 20933

Anyone have a different email for Ken?
I need to order some band switch couplers, but my Emails go un-answered?

Bob
KD8HZC

20934. Re: Contacting Ken K4EAA

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-14 16:32:20 UTC
From: w5rkl
Topic: 20933 Message: 20934

I haven't experienced this with Ken but I have experienced it quite often with others.

Unfortunately, it's a shame this type of behavior occurs everyday, especially in a world dominated by electronic communications (cell phones, instant text messaging, or e-mail). There is no excuse, unless one is incapacitated or dead, for not responding in a timely manner.

Good luck.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "waterfield55" <waterfield55@...> wrote:
>
> Anyone have a different email for Ken?
> I need to order some band switch couplers, but my Emails go un-answered?
>
> Bob
> KD8HZC
>

20935. Re: [TS-520_820_530_830] Re: Contacting Ken K4EAA

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-14 16:50:55 UTC
From: n6wk@n6wk.com
Topic: 20933 Message: 20935

I have had a few times where it took 2 or 3 days to hear back from Ken,
but it was never a real problem.
We all get busy.

73,
Gordon

w5rkl wrote:
>
>
>
> I haven't experienced this with Ken but I have experienced it quite
> often with others.
>
> Unfortunately, it's a shame this type of behavior occurs everyday,
> especially in a world dominated by electronic communications (cell
> phones, instant text messaging, or e-mail). There is no excuse, unless
> one is incapacitated or dead, for not responding in a timely manner.
>
> Good luck.
>
> 73
> Mike
> W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "waterfield55"
> <waterfield55@...> wrote:
> >
> > Anyone have a different email for Ken?
> > I need to order some band switch couplers, but my Emails go un-answered?
> >
> > Bob
> > KD8HZC
> >
>
>
> M
> <http://groups.yahoo.com/group/TS-520_820_530_830/message/20933;_ylc=X3oDMTM2aDBwcGZjBF9
TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzIwOTM0BHNlYwNmdHIEc2xrA
3Z0cGMEc3RpbWUDMTIzOTcyNjc1NgR0cGNJZAMyMDkzMw-->

20936. Mic Recomendations

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-14 17:10:35 UTC
From: Chris Maness
Topic: 20936 Message: 20936

I have a junk box shure 444d that I wired up to work with the TS-520s. However, I just get the sound of hum when I listen with an adjacent reciever. I imagine that the mis is eaither wired incorrectly or broken. The radio is new to me so I am not totally sure there is not a problem with the transmit audio. Does someone live in the socal area to loan or sell a cheap microphone for my TS-520, or is there an inexpensive ebay recomendation.

Help... I love this radio on CW, and would like to get it working on SSB too.

Thanks,
Chris KQ6UP

20937. Re: [TS-520_820_530_830] Re: Need to get rid of equipment

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-14 19:01:40 UTC
From: John Ellis
Topic: 20928 Message: 20937

Mark,

Everything I'm seeing on the net the MC-50 is going for around $100 plus shipping. let me know what you think. Thanks for asking
John
KJ4DFJ

From: markcurry65 <markcurry65@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, April 14, 2009 3:51:13 AM
Subject: [TS-520_820_530_830] Re: Need to get rid of equipment

Hi John

I am after the MC-50 mic to complete my set up in the shack if it is still availible. what do you want for it? set a price.

regards
Mark
vk4mon

-- In TS-520_820_530_ 830@yahoogroups. com, "kj4dfj" <kj4dfj@...> wrote:
>
> I have two TS-820's, a SP-820 and and MC-50 mic that I need to get rid of. One of the 820's receieves but will not tune up and the other 820 died last night as I was tuning it up. I do not have the knowledge to work with these rigs and to be honest it wasn't very nice of me to get them in the first place. This group has been a wealth of knowledge for me but I'm honestly out of my league with these radio. I would like to sell it all together, but will divide if need be. Equipment goes to individual who makes best offer, plus shipping. Thanks for your time and please contact me off group and I will have pictures to send.
>
> Thanks,
> John
> KJ4DFJ
>

[Non-text portions of this message have been removed]

20938. Re: [TS-520_820_530_830] Contacting Ken K4EAA

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-14 19:32:01 UTC
From: Lou Blasco
Topic: 20933 Message: 20938

Hi Bob,

I was in contact with Ken 10 days ago on this email address.

ken@...

Regards

Lou
VK3ALB

At 23:21 14/04/2009, you wrote:
>Anyone have a different email for Ken?
>I need to order some band switch couplers, but my Emails go un-answered?
>
>Bob
>KD8HZC

20939. Re: Strange issue with the carrier controll

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-14 23:19:53 UTC
From: w5rkl
Topic: 20746 Message: 20939

Chris,

This is a repeat, sorta, of my reply to your private e-mail.

Yes, the 9VDC adjustment will affect the carrier null adjustment. The balance modulator's DC voltage depends on the 9VDC source being right "before" adjusting the carrier null. If the carrier null adjustment is performed before the 9VDC is adjusted, any carrier null adjustments will be null and void and you will have to be redone carrier null adjustments after adjusting the 9VDC.

So why perform the 9VDC before the 3.3VDC? It's simple, the 3.3VDC is obtained from the 9VDC. If the 3.3VDC is adjusted first then the 9VDC, again, the 3.3VDC is "null and void" and you will have to redo the 3.3VDC adjustment. So do the 9VDC adjustment then the 3.3VDC.

Adjusting these two voltages is important since so many circuits rely on them to operate properly. For example, if the 9VDC is not right, less than or more than 9VDC, the VFO will be off frequency. A drifting 9VDC supply is the primary cause of drift in the 520 and 820 since the VFO is an "analog" device. Any change in the 9VDC power source to the VFO will affect the VFO's stability. As components age, voltage drift occurs, usually in the 6.1 zener diode, WZ-061 and current limiting transistor, a 2SA496Y, on the AF UNIT in the 820 and a 2SA606L, on the FIX CH UNIT in the 520. I had this problem with my 820 and replaced the 2SA496Y plus the zener diode which, after normal warm up, reduced drift to factory specs with the 9VDC and 3.3VDC adjusted properly.

The CW issue is most likely caused by the CW CAR UNIT crystal being OFF FREQUENCY. When this occurs you will experience problems such as you are having in CW receive and most likley cause a reduction in CW output power. If the CW CAR UNIT crystal is off frequency, the RF signal is place improperly in the filter's bandpass which affects the level of signal coming out of the crystal filter. A reduction in RF signal at the output of the crystal filter cannot be fixed by advancing the CAR control. The fix is to check and, if necessary, adjust the CAR UNIT's CW crystal so it produces a "3395.0Khz" signal. I think I said 3395.0 "Mhz" wiich is wrong. I should have said "Khz" which would be right. I apologize for that mistake.

Since USB and LSB are fine do not mess with USB or LSB GEN UNIT crystal adjustments "TC-2" or "TC-3".

You will need a frequency counter to determine how far off the CW GEN UNIT crystal is. Perform the following steps.

1. Connect the 520 to a dummy load
2. Connect the frequency counter to the GEN UNIT's "OUT" connection
3. Set the CAR control to minimum
4. Remove any CW key from the rear CW socket
5. Set the MODE switch to CW

Power up the 520 and allow it to warm up for a minimum of 30 minutes. Flip the "SEND" switch "UP" and note the frequency counter reading. If it's not "3395.0Mhz" locate and adjust "TC-1" on the GEN UNIT so the frequency counter reads "3395.0Mhz" then flip the SEND switch "DOWN". This should fix your CW receive problem plus if the 520 had low output in CW, the output power should be good now.

Remember, the GEN UNIT provides the individual BFO frequencies for USB, LSB, or CW receive. If any of the GEN UNIT crystal oscillators are "OFF FREUENCY" the receiver will be affected. Again, since USB and LSB work fine do NOT mess with TC-2 or TC-3 on the GEN UNIT. If you mess with TC-2 or TC-3, USB or LSB will be affected in both transmit and receive.

Let us know how things turn out.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Christopher Maness <chris@...> wrote:
>
> w5rkl wrote:
> > Hello Chris,
> >
> > The CAR control varies a positive DC voltage that is applied to the balance modulator (balance modulator is located on the GENERATOR UNIT X52-1090-00) in TUNE and CW mode. The source for the 9VDC originates on the FIX CH AVR Unit (X42-1100-00).
> >
> > The CAR control is active ONLY in TUNE and CW mode. The CAR control is NOT active in either USB or LSB.
> >
> > To check and adjust the 9VDC and 3.3VDC, perform the following simple steps:
> >
> > 1. Measure the voltage on the FIX CH AVR Unit's "9" terminal. If necessary, adjust VR1 on the FIX CH AVR Unit for 9VDC +/- .1VDC.
> >
> > 2. Measure the voltage on the RF-1 terminal also on the FIX CH AVR Unit. If necessary, adjust VR3 on the FIX CH AVR Unit for 3.3VDC +/- .1VDC.
> >
> > Adjust the 9VDC "FIRST" then adjust the 3.3VDC. The above adjustments are found in the TS-520S service manual on page 45 "RECEIVER SECTION" at paragraph "2" titled "SETTING THE 9 VOLT POWER SUPPLY and FET BIAS SUPPLY VOLTAGE". The 9VDC powers not only the VFO, both internal and, if used, external, plus a number of other circuits. The 9VDC flows through the FUNCTION switch AND pins 8 and 9 on the rear 9 pin external VFO socket. Clean the FUNCTION switch with contact cleaner (DeoXit) and ensure the connection at the rear 9 pin VFO socket are clean and secure. Clean the plugs that plug into the rear of the VFO.
> >
> > The procedures for adjusting the carrier null are contained in the TS-520S service manual on page 50 under the section titled "BALANCE MODULATOR AND CARRIER ADJUSTMENT".
> >
> > Clean the CAR control with contact cleaner, remove excess contact cleaner with canned air and test for proper operation of the CAR control, correct RF output, and check for carrier in sideband mode.
> >

> >
> > If you do not have the TS-520S operator and service manuals, you can download them free at the following website:
> >
> > http://www.n6wk.com/kenwood/
> >
> > 73
> > Mike
> > W5RKL
> I did the carrier balance before I did the voltage adjustments. I guess
> I will probably have to null the carrier again after making the voltage
> adjustments. I am also assuming that the carrier balance for U and LSB
> is not going to effect how the CARRIER knob works, but the voltage
> adjustment might fix the issue.
>
> Thanks,
> Chris KQ6UP
>

20940. Re: old equipment found

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-15 01:48:18 UTC
From: Kyle
Topic: 20903 Message: 20940

--- In TS-520_820_530_830@yahoogroups.com, "k6aom" <k6aom@...> wrote:
>
> --- Yes, I will take them! What is your E-MAIL?
>
> Harry, K6AOM
>
> > > The HP 200CD is an audio oscillator and the Heath Q multiplier was used with vintage receivers to improve selectivity I believe. If you don't need them, I'm sure someone on the list would be more than happy to pay postage to take them off your hands. You probably don't have a use for the Heath Q-1, but the HP if it works would be quite useful for troubleshooting or building audio circuits. Too bad bout the tower.
> > >
> > > http://oak.cats.ohiou.edu/~postr/bapix/HP200CD.htm
> > >
> > > Don T.
> > >
> >
> > I can say right now that I have no use for these two items. Both seem to be in good condition, however someone cut the power cord off the HP200CD. Copper recycling folks?
> > ya, anybody want them?
> >
>

I`ll try this again. Anybody intersted in these items? You pay for shipping. I don`t see myself having a need for them. thz. 73`s kyle N0MKH e-mail is cb750fs@...

20941. TX Audio Super Distorted

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-15 04:22:27 UTC
From: Christopher Maness
Topic: 20941 Message: 20941

I was able to barrow a known working mic from a local ham. If I transmit into a dummy load and recieve on a near by X-miter, my transmitter audio is extremely distorted. This is if adjust for the correct readings on the ALC. My previous mic was not working at all, but this one is giving me ALC deflection. This is a stock hand held mic that was shipped with TS-520s.

Any suggestions?

Thanks,
Chris KQ6UP

20942. Re: Strange issue with the carrier controll

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-15 05:05:56 UTC
From: Christopher Maness
Topic: 20746 Message: 20942

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Chris,
>
> This is a repeat, sorta, of my reply to your private e-mail.
>
> Yes, the 9VDC adjustment will affect the carrier null adjustment. The balance modulator's DC voltage depends on the 9VDC source being right "before" adjusting the carrier null. If the carrier null adjustment is performed before the 9VDC is adjusted, any carrier null adjustments will be null and void and you will have to be redone carrier null adjustments after adjusting the 9VDC.
>
> So why perform the 9VDC before the 3.3VDC? It's simple, the 3.3VDC is obtained from the 9VDC. If the 3.3VDC is adjusted first then the 9VDC, again, the 3.3VDC is "null and void" and you will have to redo the 3.3VDC adjustment. So do the 9VDC adjustment then the 3.3VDC.
>
> Adjusting these two voltages is important since so many circuits rely on them to operate properly. For example, if the 9VDC is not right, less than or more than 9VDC, the VFO will be off frequency. A drifting 9VDC supply is the primary cause of drift in the 520 and 820 since the VFO is an "analog" device. Any change in the 9VDC power source to the VFO will affect the VFO's stability. As components age, voltage drift occurs, usually in the 6.1 zener diode, WZ-061 and current limiting transistor, a 2SA496Y, on the AF UNIT in the 820 and a 2SA606L, on the FIX CH UNIT in the 520. I had this problem with my 820 and replaced the 2SA496Y plus the zener diode which, after normal warm up, reduced drift to factory specs with the 9VDC and 3.3VDC adjusted properly.
>
> The CW issue is most likely caused by the CW CAR UNIT crystal being OFF FREQUENCY. When this occurs you will experience problems such as you are having in CW receive and most likley cause a reduction in CW output power. If the CW CAR UNIT crystal is off frequency, the RF signal is place improperly in the filter's bandpass which affects the level of signal coming out of the crystal filter. A reduction in RF signal at the output of the crystal filter cannot be fixed by advancing the CAR control. The fix is to check and, if necessary, adjust the CAR UNIT's CW crystal so it produces a "3395.0Khz" signal. I think I said 3395.0 "Mhz" wiich is wrong. I should have said "Khz" which would be right. I apologize for that mistake.
>
> Since USB and LSB are fine do not mess with USB or LSB GEN UNIT crystal adjustments "TC-2" or "TC-3".
>
> You will need a frequency counter to determine how far off the CW GEN UNIT crystal is. Perform the following steps.
>
> 1. Connect the 520 to a dummy load
> 2. Connect the frequency counter to the GEN UNIT's "OUT" connection
> 3. Set the CAR control to minimum

> 4. Remove any CW key from the rear CW socket
> 5. Set the MODE switch to CW
>
> Power up the 520 and allow it to warm up for a minimum of 30 minutes. Flip the "SEND" switch "UP" and note the frequency counter reading. If it's not "3395.0Mhz" locate and adjust "TC-1" on the GEN UNIT so the frequency counter reads "3395.0Mhz" then flip the SEND switch "DOWN". This should fix your CW receive problem plus if the 520 had low output in CW, the output power should be good now.
>
> Remember, the GEN UNIT provides the individual BFO frequencies for USB, LSB, or CW receive. If any of the GEN UNIT crystal oscillators are "OFF FREUENCY" the receiver will be affected. Again, since USB and LSB work fine do NOT mess with TC-2 or TC-3 on the GEN UNIT. If you mess with TC-2 or TC-3, USB or LSB will be affected in both transmit and receive.
>
> Let us know how things turn out.
>
> 73
> Mike
> W5RKL

Thanks Mike. That was beautiful and clear explanation on how everything is tied together. Once, I understand how the rigs work, it helps me to be more confident when I work on them.

Thanks,
Chris KQ6UP

20943. Re: [TS-520_820_530_830] Re: old equipment found

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-15 13:32:26 UTC
From: Don Thomas
Topic: 20903 Message: 20943

Hi Kyle,
Harry (K6AOM) asked for your email address, he wanted the items. Maybe he will reply again since you put address in the text. The msg he replied to didn't show your complete address. If he doesn't contact you, I'll take them. Don't really need them but can pass on to someone who could use them.

Don

--- On Tue, 4/14/09, Kyle <kyle171@...> wrote:

From: Kyle <kyle171@...>
Subject: [TS-520_820_530_830] Re: old equipment found
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, April 14, 2009, 8:48 PM

--- In TS-520_820_530_ 830@yahoogroups. com, "k6aom" <k6aom@...> wrote:
>
> --- Yes, I will take them! What is your E-MAIL?
>
> Harry, K6AOM
>
> > > The HP 200CD is an audio oscillator and the Heath Q multiplier was used with vintage receivers to improve selectivity I believe. If you don't need them, I'm sure someone on the list would be more than happy to pay postage to take them off your hands. You probably don't have a use for the Heath Q-1, but the HP if it works would be quite useful for troubleshooting or building audio circuits. Too bad bout the tower.
> > >
> > > http://oak.cats. ohiou.edu/ ~postr/bapix/ HP200CD.htm
> > >
> > > Don T.
> > >
> >
> > I can say right now that I have no use for these two items. Both seem to be in good condition, however someone cut the power cord off the HP200CD. Copper recycling folks?
> > ya, anybody want them?
> >
>

I`ll try this again. Anybody intersted in these items? You pay for shipping. I don`t see myself having a need for them. thz. 73`s kyle N0MKH e-mail is cb750fs@yahoo. com

[Non-text portions of this message have been removed]

20944. Re: TX Audio Super Distorted

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-15 14:53:45 UTC
From: w5rkl
Topic: 20941 Message: 20944

Hello Chris,

I "think" I understand what you mean when you say,

"This is adjust for the correct readings on the ALC."

Are you saying that you adjust the MIC gain to a point where there is a constant ALC meter indication during sideband transmission?

Although the manual states the ALC meter indication, during sideband transmission, should be kept within the ALC meter scale, that does NOT mean you have to set the MIC gain so there is a "constant" ALC indication during sideband transmissions!

As for your distortion problem, here's a simple test you can perform to determine if the speech amplifier is producing distortion on its own. Remove the microphone completely. Turn the MIC gain to minimum. Looking at the MIC socket you will notice "4" pins, one bottom left, one top left, one bottom right, and one top right. Use a screw driver or jumper wire, short the "top right" pin to the MIC socket shell. This is the PTT circuit and will key the transmit. If the distorted signal is not heard in the separate receiver, slowly advance the MIC gain to the point you normally set it at. If the distortion is no longer heard in the separate receiver, the distortion problem more than likely not caused by the 520.

Here's another test you can do. Place the 520 in TUNE mode, set the CAR control to minimum and key the transmitter with the "SEND" switch while listen to your signal on your separate receiver. Slowly advance the CAR control. Do you hear distortion or hum in the separate receiver? Again, if not, the problem is most likely not in the 520.

The Kenwood hyrbrid operating manuals clearly show the PTT ground return must not be connected to the microphone ground return. The ground returns must be separate.

The two test indicated above should be conducted with the 520 connected to a dummy load.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Christopher Maness <chris@...> wrote:
>
> I was able to barrow a known working mic from a local ham. If I
> transmit into a dummy load and recieve on a near by X-miter, my
> transmitter audio is extremely distorted. This is if adjust for the
> correct readings on the ALC. My previous mic was not working at all,
> but this one is giving me ALC deflection. This is a stock hand held mic
> that was shipped with TS-520s.
>
> Any suggestions?
>

> Thanks,
> Chris KQ6UP
>

20945. Fw: 820S Servicing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-15 19:34:29 UTC
From: jsloss
Topic: 20945 Message: 20945

Has anyone developed a way to measure voltages on Q2 and Q3 in the RF board when it is installed in the 820? About the only way I figure it can be done is to fabricate extender boards for the 3 4-pin connectors that are on the coil pack board. Anyone have a scrap coil pack board they don't need? I'd also settle for a RF board that works then I won't have to troubleshoot this one!

Joe k7mks

[Non-text portions of this message have been removed]

20946. using an antenna tuner with TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-15 19:36:36 UTC
From: Christy Hunter
Topic: 20946 Message: 20946

Hello,
my call sign is old but I got back into this hobby last year and dragged my hubby into it as well. along with this was unpacking my TS-520 that I acquired back in 1985. it has essentially been sitting in the closet for all this time.
 back in the day, time antenna tuners were not in the picture in I happily dipped and tuned my rig to tx. I am now being told I should get a separate tuner by those with higher class lic than me.
what do you all recommend for this rig?
currently I have 2 home brew wire dipole antennas. one for 40 m, and 80 m.. the 80 m is an inverted V.
thank you for your input.
Christy
KB6LTY

[Non-text portions of this message have been removed]

20947. Re: [TS-520_820_530_830] using an antenna tuner with TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-15 20:39:21 UTC
From: Shane J. Wolfe
Topic: 20946 Message: 20947

Christy,

I use an MFJ 949e with my 520s. The tuner is extremely versatile, having a 4:1 balun, two coax connections, a random wire connection, and a balanced line connection all built in. It also has a forward power/SWR meter and backlighting if so desired. I have fun with it sometimes just loading up random objects. I made 40m PSK contacts off of an aluminum canoe in my back yard. I've heard of people loading up lawn chairs, rain gutters, etc. with this and similar MFJ tuners.

They are built to take around 300w, so if you are running high power, look elsewhere.

Have fun!

-Shane
KV3SPA

On Wednesday, April 15, 2009, at 03:36PM, "Christy Hunter" <kb6ltych@...> wrote:
>Hello,
>my call sign is old but I got back into this hobby last year and dragged my hubby into it as well. along with this was unpacking my TS-520 that I acquired back in 1985. it has essentially been sitting in the closet for all this time.
> back in the day, time antenna tuners were not in the picture in I happily dipped and tuned my rig to tx. I am now being told I should get a separate tuner by those with higher class lic than me.
>what do you all recommend for this rig?
>currently I have 2 home brew wire dipole antennas. one for 40 m, and 80 m.. the 80 m is an inverted V.
>thank you for your input.
>Christy
>KB6LTY
>
>
>
>
>[Non-text portions of this message have been removed]
>
>

20948. Re: [TS-520_820_530_830] using an antenna tuner with TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-15 20:24:08 UTC
From: DALE PARFITT
Topic: 20946 Message: 20948

----- Original Message -----
From: "Christy Hunter" <kb6ltych@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, April 15, 2009 3:36 PM
Subject: [TS-520_820_530_830] using an antenna tuner with TS-520

Hello,
my call sign is old but I got back into this hobby last year and dragged my hubby into it as well. along with this was unpacking my TS-520 that I acquired back in 1985. it has essentially been sitting in the closet for all this time.
back in the day, time antenna tuners were not in the picture in I happily dipped and tuned my rig to tx. I am now being told I should get a separate tuner by those with higher class lic than me.
what do you all recommend for this rig?
currently I have 2 home brew wire dipole antennas. one for 40 m, and 80 m.. the 80 m is an inverted V.
thank you for your input.
Christy
KB6LTY

Hi Christy,

The pi net in your transceiver likely already has a Z matching range of close to 3:1. Considering you are using monoband dipoles, I don't see the need for a tuner.

The newbie hams (despite their license class) may not have a clue about vacuum tube finals and output matching networks.

Dale W4OP

20949. Re: [TS-520_820_530_830] using an antenna tuner with TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-15 20:56:47 UTC
From: g.skinner@mchsi.com
Topic: 20946 Message: 20949

---------- Original message from Christy Hunter <kb6ltych@...>: ----------
Hello Christy:

I would recommend the MFJ 949E Deluxe Versa Tuner 2.
It has a 100W dummy load, cross needle lighted SWR/POWER meter, (the light in the meter is powered by a small power supply, optional). Three antenna positions, two coaxial and one wire. Also has average and peak power readings (the peak reading is not true pep, but there are filter caps in the circuit, that slow the meter swing down some to for easier SSB power readings). The meter also has high and low
power settings, 100/300 watts. The tuner is equipped with a Balun. You can also bypass the tuner, and
run direct to the antenna, with a flip of a switch. I have two of these and have used them daily for 15 years, with no problems. Hope this helps 73, gary n0tqq.

Hello,
my call sign is old but I got back into this hobby last year and dragged my hubby into it as well. along with this was unpacking my TS-520 that I acquired back in 1985. it has essentially been sitting in the closet for all this time.
back in the day, time antenna tuners were not in the picture in I happily dipped and tuned my rig to tx. I am now being told I should get a separate tuner by those with higher class lic than me.
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thank you for your input.
Christy
KB6LTY

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

20950. Re: [TS-520_820_530_830] using an antenna tuner with TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-15 22:14:14 UTC
From: Lou Blasco
Topic: 20946 Message: 20950

Hi Christy,

The tank circuit in the 520 will happily match anything up to a 3:1
VSWR. If your aerials and radio worked well together back in '85
they'll do the same now. If you intend to stick with the two dipoles
and the radio loads up well I see no point in getting a tuner.
However, there's plenty of good tuners out there and you'll have
plenty of good advice on which make/model will suit your requirements best.

Welcome back.

Lou
VK3ALB

At 05:36 16/04/2009, you wrote:
>Hello,
>my call sign is old but I got back into this hobby last year and
>dragged my hubby into it as well. along with this was unpacking my
>TS-520 that I acquired back in 1985. it has essentially been sitting
>in the closet for all this time.
> back in the day, time antenna tuners were not in the picture in I
> happily dipped and tuned my rig to tx. I am now being told I should
> get a separate tuner by those with higher class lic than me.
>what do you all recommend for this rig?
>currently I have 2 home brew wire dipole antennas. one for 40 m, and
>80 m.. the 80 m is an inverted V.
>thank you for your input.
>Christy
>KB6LTY
>
>
>

20951. Re: [TS-520_820_530_830] using an antenna tuner with TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-15 23:55:54 UTC
From: Christy Hunter
Topic: 20946 Message: 20951

--- On Wed, 4/15/09, Lou Blasco <radio@...> wrote:

From: Lou Blasco <radio@...>
Subject: Re: [TS-520_820_530_830] using an antenna tuner with TS-520
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, April 15, 2009, 10:14 PM

Hi Christy,

The tank circuit in the 520 will happily match anything up to a 3:1
VSWR. If your aerials and radio worked well together back in '85
they'll do the same now. If you intend to stick with the two dipoles
and the radio loads up well I see no point in getting a tuner.
However, there's plenty of good tuners out there and you'll have
plenty of good advice on which make/model will suit your requirements best.

Welcome back.

Lou
VK3ALB

At 05:36 16/04/2009, you wrote:
>Hello,
>my call sign is old but I got back into this hobby last year and
>dragged my hubby into it as well. along with this was unpacking my
>TS-520 that I acquired back in 1985. it has essentially been sitting
>in the closet for all this time.
> back in the day, time antenna tuners were not in the picture in I
> happily dipped and tuned my rig to tx. I am now being told I should
> get a separate tuner by those with higher class lic than me.
>what do you all recommend for this rig?
>currently I have 2 home brew wire dipole antennas. one for 40 m, and
>80 m.. the 80 m is an inverted V.
>thank you for your input.
>Christy
>KB6LTY
>
>
>

[Non-text portions of this message have been removed]

20952. Re: [TS-520_820_530_830] using an antenna tuner with TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-15 23:57:03 UTC
From: Christy Hunter
Topic: 20946 Message: 20952

oops, disregard first reply. Thanks for you response.
Christy

--- On Wed, 4/15/09, Lou Blasco <radio@...> wrote:

From: Lou Blasco <radio@...>
Subject: Re: [TS-520_820_530_830] using an antenna tuner with TS-520
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, April 15, 2009, 10:14 PM

Hi Christy,

The tank circuit in the 520 will happily match anything up to a 3:1
VSWR. If your aerials and radio worked well together back in '85
they'll do the same now. If you intend to stick with the two dipoles
and the radio loads up well I see no point in getting a tuner.
However, there's plenty of good tuners out there and you'll have
plenty of good advice on which make/model will suit your requirements best.

Welcome back.

Lou
VK3ALB

At 05:36 16/04/2009, you wrote:
>Hello,
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>dragged my hubby into it as well. along with this was unpacking my
>TS-520 that I acquired back in 1985. it has essentially been sitting
>in the closet for all this time.
> back in the day, time antenna tuners were not in the picture in I
> happily dipped and tuned my rig to tx. I am now being told I should
> get a separate tuner by those with higher class lic than me.
>what do you all recommend for this rig?
>currently I have 2 home brew wire dipole antennas. one for 40 m, and
>80 m.. the 80 m is an inverted V.
>thank you for your input.
>Christy
>KB6LTY
>
>
>

[Non-text portions of this message have been removed]

20953. Re: [TS-520_820_530_830] Re: TX Audio Super Distorted

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-16 02:18:42 UTC
From: Christopher Maness
Topic: 20941 Message: 20953

w5rkl wrote:
> Hello Chris,
>
> I "think" I understand what you mean when you say,
>
> "This is adjust for the correct readings on the ALC."
>
> Are you saying that you adjust the MIC gain to a point where there is a constant ALC meter indication during sideband transmission?
>
This is correct.
> Although the manual states the ALC meter indication, during sideband transmission, should be kept within the ALC meter scale, that does NOT mean you have to set the MIC gain so there is a "constant" ALC indication during sideband transmissions!
>
It more or less tickles the ALC.
> As for your distortion problem, here's a simple test you can perform to determine if the speech amplifier is producing distortion on its own. Remove the microphone completely. Turn the MIC gain to minimum. Looking at the MIC socket you will notice "4" pins, one bottom left, one top left, one bottom right, and one top right. Use a screw driver or jumper wire, short the "top right" pin to the MIC socket shell. This is the PTT circuit and will key the transmit. If the distorted signal is not heard in the separate receiver, slowly advance the MIC gain to the point you normally set it at. If the distortion is no longer heard in the separate receiver, the distortion problem more than likely not caused by the 520.
>
I now have a different mic than the 444D. With the 444D I just was able
to get hum when I cranked up the mic gain. A local ham loaned me the
OEM hand mic for his 520S. This works a little better. I get audio and
ALC deflection. However, the audio with this mic conected sounds
distorted, and it drops off a little if I test it with "loud" audio as
opposed just regularly saying test. I don't think it is the driver tube
or the finals, because I get constant power output in CW.

Jumpering the PTT gave no hum or distortion sounds even with GAIN 100%.
> Here's another test you can do. Place the 520 in TUNE mode, set the CAR control to minimum and key the transmitter with the "SEND" switch while listen to your signal on your separate receiver. Slowly advance the CAR control. Do you hear distortion or hum in the separate receiver? Again, if not, the problem is most likely not in the 520.
>
This gives me a carrier at CAR=0 but drops off just like the CW power
does at CAR=1 when I am in CW mode. I need to still do those voltage
measurements.
> The Kenwood hyrbrid operating manuals clearly show the PTT ground return must not be connected to the microphone ground return. The ground returns must be separate.
>

Stock mic. My buddy has another OEM desk mic. I might give that one a
shot too.
> The two test indicated above should be conducted with the 520 connected to a dummy load.
>
> 73
> Mike
> W5RKL
>
>
Thanks a ton,
Chris KQ6UP

20954. Re: TX Audio Super Distorted

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-16 03:02:08 UTC
From: w5rkl
Topic: 20941 Message: 20954

--- In TS-520_820_530_830@yahoogroups.com, Christopher Maness <chris@...> wrote:

>I need to still do those voltage measurements.

Chris, have you checked the CW CAR UNIT frequency yet? If not then perform the 9VDC and 3.3VDC adjustments then check the CW CAR UNIT frequency. Instructions on how to check and adjust the CAR UNIT were included in an earlier post/e-mail.

73
Mike
W5RKL

20955. Re: [TS-520_820_530_830] Re: TX Audio Super Distorted

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-16 03:15:40 UTC
From: Christopher Maness
Topic: 20941 Message: 20955

w5rkl wrote:
> --- In TS-520_820_530_830@yahoogroups.com, Christopher Maness <chris@...> wrote:
>
>
>> I need to still do those voltage measurements.
>>
>
>
> Chris, have you checked the CW CAR UNIT frequency yet? If not then perform the 9VDC and 3.3VDC adjustments then check the CW CAR UNIT frequency. Instructions on how to check and adjust the CAR UNIT were included in an earlier post/e-mail.
>
> 73
> Mike
> W5RKL

Do I need a freq. counter, or can I use my general coverage reciever on my IC-761 with an oscilloscope probe? I do not have a frequency counter. I was planning to do the voltage checks tonight after I am done with baby duty ;o)

Thanks,
Chris KQ6UP

20956. TS-830S - 1Khz off Freq (Lower)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-16 03:29:22 UTC
From: Gmail - Kevin, Natalia, Stacey & Rochelle
Topic: 20956 Message: 20956

Hi All,

I am in need of a small fix.
My TS-830S seems to read 1Khz lower then it should. I have checked this against my other 2x HF radios, a TS-480S/AT and TS-450S/AT

When I am on a freq, say 14.260Mhz I will have to tune it to 14.259Mhz, the other radios are bang-on 14.260Mhz.
It does not change if I change it to 80mtrs, still have to tune 1Khz lower to get a good solid audio.

The TS-450S has now gone and the TS-480S/AT is going back in my vehicle soon. So the TS-830S will be my main home radio.
It's not really a problem, I can tune it okay, but if I can fix it I would like to.

Regards

Kevin, ZL1KFM.

[Non-text portions of this message have been removed]

20957. Re: [TS-520_820_530_830] TS-830S - 1Khz off Freq (Lower)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-16 07:11:43 UTC
From: martin
Topic: 20956 Message: 20957

Hi Kevin. Have you trued the Digital Display calibration (page 21 of the manual, section 4.6)? On quit a few of the radios that I have owned, there has been the annoying (to me) problem that when stations are tuned in correctly, it was at the point that the display would flicker between say (for example) 14.299, and 14.300 when tuned in on 14.300. A slight adjustment of the Digital Display cured this problem on my TS-530S.

I like to have the radio tuned in to where it is just past the point where the digits flicker in the manner described above.

TTYL

Gmail - Kevin, Natalia, Stacey & Rochelle wrote:
> Hi All,
>
> I am in need of a small fix. My TS-830S seems to read 1Khz lower
> then it should. I have checked this against my other 2x HF radios,
> a TS-480S/AT and TS-450S/AT
>
> When I am on a freq, say 14.260Mhz I will have to tune it to
> 14.259Mhz, the other radios are bang-on 14.260Mhz. It does not
> change if I change it to 80mtrs, still have to tune 1Khz lower to
> get a good solid audio.
>
> The TS-450S has now gone and the TS-480S/AT is going back in my
> vehicle soon. So the TS-830S will be my main home radio. It's not
> really a problem, I can tune it okay, but if I can fix it I would
> like to.
>
> Regards
>
> Kevin, ZL1KFM.
>
>
> [Non-text portions of this message have been removed]
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html

"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

20958. Re: [TS-520_820_530_830] using an antenna tuner with TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-16 07:14:04 UTC
From: Gordon JC Pearce
Topic: 20946 Message: 20958

Christy Hunter wrote:

> back in the day, time antenna tuners were not in the picture in I happily dipped and tuned my rig to tx. I am now being told I should get a separate tuner by those with higher class lic than me.
> what do you all recommend for this rig?

I borrowed an MFJ-949 tuner which was pretty good after a few dodgy solder joints were cleaned up. It seems a bit finicky and sensitive to hand capacitance on 160m, but the TS-520 doesn't have that so I never found it to be a problem.

> currently I have 2 home brew wire dipole antennas. one for 40 m, and 80 m.. the 80 m is an inverted V.
> thank you for your input.

I now use a wire dipole for 20m and a loaded wire dipole for 40m (don't have room for 80), with no tuner. The pi network in the TS-520 has more than enough range to tune these. If you've made it properly, the antenna should be just about the right load anyway.

Gordon

20959. Re: [TS-520_820_530_830] TS-830S - 1Khz off Freq (Lower)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-16 09:21:59 UTC
From: Adrian Ellison
Topic: 20956 Message: 20959

Just a thought, if you're using CW mode the frequency indicated will be offset by the beat frequency of 800hz, i.e. if you wish to listen on 7020khz for example, you'd dial up 7019.2khz, and this is correct (it should indicate 7020khz on key down in this case).

Perhaps this is what you're observing?

Cheers

Adrian / ZS1TTZ

On Thursday 16 April 2009 05:29:22 Gmail - Kevin, Natalia, Stacey & Rochelle wrote:
> Hi All,
>
> I am in need of a small fix.
> My TS-830S seems to read 1Khz lower then it should. I have checked this
> against my other 2x HF radios, a TS-480S/AT and TS-450S/AT
>
> When I am on a freq, say 14.260Mhz I will have to tune it to 14.259Mhz, the
> other radios are bang-on 14.260Mhz. It does not change if I change it to
> 80mtrs, still have to tune 1Khz lower to get a good solid audio.
>
> The TS-450S has now gone and the TS-480S/AT is going back in my vehicle
> soon. So the TS-830S will be my main home radio. It's not really a problem,
> I can tune it okay, but if I can fix it I would like to.
>
> Regards
>
> Kevin, ZL1KFM.
>
>
> [Non-text portions of this message have been removed]

20960. Re: [TS-520_820_530_830] using an antenna tuner with TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-16 09:56:16 UTC
From: Adrian Ellison
Topic: 20946 Message: 20960

Hello Christy,

Thought I'd chip in with this one too, seeing as I'm currently bored and none of the other posters have mentioned dummy loads.

Seeing as our favourite Kenwoods have impedance matching already built in, you really need to have a reliable starting point when using external antenna tuners, otherwise there's a lot of knobs to twiddle and it'll get confusing, and the correct way to do this is to tune your TS-520 into a 50 ohm dummy load first, then switch in your antenna and tuner and tune that to get a match.

I think there's at least one MFJ tuner that has a built in dummy load expressly for this scenario and I'm sure there are others too.

Otherwise I concur with other posters, with your tuned dipoles you really don't need one unless you're trying to tune odd lengths of wire, or pieces of furniture as others have indicated, or in my case an untuned balanced doublet.

We're not saying that your advisors are wrong, and for sure any and every effort towards interference suppression is greatly encouraged, a low pass filter in your feedline is always a good idea, but PI tank in these radios is well designed, so it's fine to carry on as you always did.

Welcome back to the hobby and enjoy !!

de Adrian / ZS1TTZ

On Wednesday 15 April 2009 21:36:36 Christy Hunter wrote:
> Hello,
> my call sign is old but I got back into this hobby last year and dragged my
> hubby into it as well. along with this was unpacking my TS-520 that I
> acquired back in 1985. it has essentially been sitting in the closet
> for all this time. back in the day, time antenna tuners were not in the
> picture in I happily dipped and tuned my rig to tx. I am now being told I
> should get a separate tuner by those with higher class lic than me. what do
> you all recommend for this rig?
> currently I have 2 home brew wire dipole antennas. one for 40 m, and 80 m..
> the 80 m is an inverted V. thank you for your input.
> Christy
> KB6LTY
>
>
>
>
> [Non-text portions of this message have been removed]

20961. Re: [TS-520_820_530_830] Re: TX Audio Super Distorted

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-16 11:38:04 UTC
From: W5RKL
Topic: 20941 Message: 20961

Chris,

Although I do not recommend using an IC-761 to set the 520's CW UNIT crystal frequency (zero beat the 520's CW CAR UNIT crystal frequency at 3395.0Khz on the IC-761), if that's all you have you could try it. However, understand the accuracy of the CW CAR UNIT crystal adjustment will be quite a bit more accurate using a frequency counter.

I am aware that a frequency counter's accuracy is based entirely on the accuracy of the counter's base reference crystal.

The key is to adjust the 520's CW CAR UNIT crystal oscillator frequency to 3395.0Khz so its signal falls in the proper position in the crystal filter's bandpass.

Regardless of the method you use, make sure you allow the 520 to warm up for a minimum of 30 minutes before attempting any of the adjustments. Then, after the warm up period, perform the adjustments in the follow order.

1. Voltage adjustment (9VDC "first" then the 3.3VDC)
2. CW CAR UNIT adjustment (3395.0Khz)
3. Carrier null

Note:
Make sure you are adjusting "TC-1" and NOT TC-3 or TC-3, on the 520's GEN UNIT!

If you use a small metal screw driver and notice the CW GEN UNIT's crystal frequency change as you bring the screw driver close to the oscillator's adjusting capacitor, find or buy
a non-metal adjusting tool. I believe, but I'm not certain, that Radio Shack sells a non-metalic alignment set which may contain the tool you need to make this adjustment. I do know Radio Daze sells a complete alignment tool set, www.radiodaze.com, because I bought mine from them.

Performing these adjustments "should" fix your CW and CAR problem. However, as I stated earlier on, there may be other problems you have not yet found.

Let us know the results.

73
Mike
W5RKL

--- On Wed, 4/15/09, Christopher Maness <chris@...> wrote:
From: Christopher Maness <chris@...>
Subject: Re: [TS-520_820_530_830] Re: TX Audio Super Distorted
To: w5rkl@...
Cc: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, April 15, 2009, 10:15 PM

w5rkl wrote:
> --- In TS-520_820_530_830@yahoogroups.com, Christopher Maness
<chris@...> wrote:
>
>
>> I need to still do those voltage measurements.
>>
>
>
> Chris, have you checked the CW CAR UNIT frequency yet? If not then perform
the 9VDC and 3.3VDC adjustments then check the CW CAR UNIT frequency.
Instructions on how to check and adjust the CAR UNIT were included in an earlier
post/e-mail.
>
> 73
> Mike
> W5RKL
Do I need a freq. counter, or can I use my general coverage reciever on
my IC-761 with an oscilloscope probe? I do not have a frequency
counter. I was planning to do the voltage checks tonight after I am
done with baby duty ;o)

Thanks,
Chris KQ6UP

[Non-text portions of this message have been removed]

20962. Re: [TS-520_820_530_830] using an antenna tuner with TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-16 11:50:08 UTC
From: Chris and Alex
Topic: 20946 Message: 20962

Hi Christy,
I use a Kenwood AT-200 tuner with a TS-520SE. It's nice to be able to switch between two different antennas and a dummy load without messing with cables and it's good to confirm power out. And it looks good.

Chris

SV0XBQ/9

2009/4/16 Adrian Ellison <ellisona@...>

>
>
> Hello Christy,
>
> Thought I'd chip in with this one too, seeing as I'm currently bored and
> none
> of the other posters have mentioned dummy loads.
>
> Seeing as our favourite Kenwoods have impedance matching already built in,
> you
> really need to have a reliable starting point when using external antenna
> tuners, otherwise there's a lot of knobs to twiddle and it'll get
> confusing,
> and the correct way to do this is to tune your TS-520 into a 50 ohm dummy
> load first, then switch in your antenna and tuner and tune that to get a
> match.
>
> I think there's at least one MFJ tuner that has a built in dummy load
> expressly for this scenario and I'm sure there are others too.
>
> Otherwise I concur with other posters, with your tuned dipoles you really
> don't need one unless you're trying to tune odd lengths of wire, or pieces
> of
> furniture as others have indicated, or in my case an untuned balanced
> doublet.
>
> We're not saying that your advisors are wrong, and for sure any and every
> effort towards interference suppression is greatly encouraged, a low pass
> filter in your feedline is always a good idea, but PI tank in these radios
> is
> well designed, so it's fine to carry on as you always did.
>
> Welcome back to the hobby and enjoy !!
>
> de Adrian / ZS1TTZ

>
> On Wednesday 15 April 2009 21:36:36 Christy Hunter wrote:
> > Hello,
> > my call sign is old but I got back into this hobby last year and dragged
> my
> > hubby into it as well. along with this was unpacking my TS-520 that I
> > acquired back in 1985. it has essentially been sitting in the closet
> > for all this time. back in the day, time antenna tuners were not in the
> > picture in I happily dipped and tuned my rig to tx. I am now being told I
> > should get a separate tuner by those with higher class lic than me. what
> do
> > you all recommend for this rig?
> > currently I have 2 home brew wire dipole antennas. one for 40 m, and 80
> m..
> > the 80 m is an inverted V. thank you for your input.
> > Christy
> > KB6LTY
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
>
>
>

[Non-text portions of this message have been removed]

20963. Re: TS-830S - 1Khz off Freq (Lower)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-16 12:08:09 UTC
From: w5rkl
Topic: 20956 Message: 20963

Hello Kevin,

Although it is possible the digital display calibration may be the problem, I have to first ask a question.

When you tune the 830 to 14.260Mhz do the voices sound "natural"?

If the voices do not sound natural at 14.260Mhz but the voice sound natural at 14.259Mhz then it appears the problem is not a digital display calibration issue but rather the 830's standard reference oscillator may be off frequency. See the 830 service manual's circuit description section starting on page 3 and adjustments starting on page 32 for further details.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Gmail - Kevin, Natalia, Stacey & Rochelle" <sparcnz@...> wrote:
>
> Hi All,
>
> I am in need of a small fix.
> My TS-830S seems to read 1Khz lower then it should. I have checked this against my other 2x HF radios, a TS-480S/AT and TS-450S/AT
>
> When I am on a freq, say 14.260Mhz I will have to tune it to 14.259Mhz, the other radios are bang-on 14.260Mhz.
> It does not change if I change it to 80mtrs, still have to tune 1Khz lower to get a good solid audio.
>
> The TS-450S has now gone and the TS-480S/AT is going back in my vehicle soon. So the TS-830S will be my main home radio.
> It's not really a problem, I can tune it okay, but if I can fix it I would like to.
>
> Regards
>
> Kevin, ZL1KFM.
>
>
> [Non-text portions of this message have been removed]
>

20964. Re: [TS-520_820_530_830] Re: TX Audio Super Distorted

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-16 12:44:20 UTC
From: Christopher Maness
Topic: 20941 Message: 20964

>
>
> If you use a small metal screw driver and notice the CW GEN UNIT's
> crystal frequency
> change as you bring the screw driver close to the oscillator's
> adjusting capacitor, find or buy
> a non-metal adjusting tool. I believe, but I'm not certain, that Radio
> Shack sells a
> non-metalic alignment set which may contain the tool you need to make
> this adjustment.
> I do know Radio Daze sells a complete alignment tool set,
> www.radiodaze.com, because
> I bought mine from them.
>
I had purchased a TV alignment kit from radio shack. The shafts are
plastic, but the blade has a small amount of metal for strength.
Hopefully the small size of just the blade part will keep it from
drifting. My Icom has the Xstal oven in it, and I think if I
re-calibrate it to WWV it should be pretty good. When I tune to DX
spots, they are dead on frequency. I will give it a shot.

Thanks,
Chris KQ6UP

20965. Re: [TS-520_820_530_830] Re: Need to get rid of equipment

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-16 12:56:21 UTC
From: Dave and Loraine
Topic: 20928 Message: 20965

An MC50 ain't worth$100! I paid 35 for mine three years ago.
Dave f4eyk

20966. Re: [TS-520_820_530_830] using an antenna tuner with TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-16 13:13:23 UTC
From: Dave and Loraine
Topic: 20946 Message: 20966

Hi Christy,
Your radio has an internal tuner. If your dipoles are well balanced and resonant with low SWR,
don't waste your money.
If you still want one, it's very easy to build.

73 Dave f4eyk

20967. Re: [TS-520_820_530_830] Re: TX Audio Super Distorted

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-16 13:40:15 UTC
From: W5RKL
Topic: 20941 Message: 20967

The small metal blade you are talking about in the alignment tool should not be an issue.

73
Mike
W5RKL

--- On Thu, 4/16/09, Christopher Maness <chris@...> wrote:
From: Christopher Maness <chris@...>
Subject: Re: [TS-520_820_530_830] Re: TX Audio Super Distorted
To: w5rkl@...
Cc: TS-520_820_530_830@yahoogroups.com
Date: Thursday, April 16, 2009, 7:44 AM

>
>
> If you use a small metal screw driver and notice the CW GEN UNIT's
crystal frequency
> change as you bring the screw driver close to the oscillator's
adjusting capacitor, find or buy
> a non-metal adjusting tool. I believe, but I'm not certain, that Radio
Shack sells a
> non-metalic alignment set which may contain the tool you need to make this
adjustment.
> I do know Radio Daze sells a complete alignment tool set,
www.radiodaze.com, because
> I bought mine from them.
>
I had purchased a TV alignment kit from radio shack. The shafts are plastic,
but the blade has a small amount of metal for strength. Hopefully the small
size of just the blade part will keep it from drifting. My Icom has the Xstal
oven in it, and I think if I re-calibrate it to WWV it should be pretty good.
When I tune to DX spots, they are dead on frequency. I will give it a shot.

Thanks,
Chris KQ6UP

[Non-text portions of this message have been removed]

20968. Re: using an antenna tuner with TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-16 13:58:36 UTC
From: Aaron
Topic: 20946 Message: 20968

Hi Christy,
You may not need a tuner, just a little more wire.

You already have 80 covered...

The 40 dipole will work on 15 at the 3rd harmonic. So all you need now is 20 & 10. Go add these to the 40M dipole feedpoint and make a fan/parallel dipole. You will need about 50' of wire which may be cheaper than a tuner.

Now if you still need/want a small tuner keep your eyes peeled for what ever fits your budget. However I recommend the Dentron Jr Monitor for small tuners. If you want something that is a auto-tuner I would highly recommend the SGC-239, best tuner I have ever used since it stores the tuned freq settings to memory. It never has to retune, pretty much throw low signal at it and its tuned in 1 second.

Anyways I still recommend something resonant with out using a tuner unless you have no other options. The only reason I use a tuner now is because my main ant is a 160M Loop and I use it 160 - 6.

Regards,
Aaron
KD4GSL
--- In TS-520_820_530_830@yahoogroups.com, Christy Hunter <kb6ltych@...> wrote:
>
> Hello,
> my call sign is old but I got back into this hobby last year and dragged my hubby into it as well. along with this was unpacking my TS-520 that I acquired back in 1985. it has essentially been sitting in the closet for all this time.
> back in the day, time antenna tuners were not in the picture in I happily dipped and tuned my rig to tx. I am now being told I should get a separate tuner by those with higher class lic than me.
> what do you all recommend for this rig?
> currently I have 2 home brew wire dipole antennas. one for 40 m, and 80 m.. the 80 m is an inverted V.
> thank you for your input.
> Christy
> KB6LTY
>
>
>
>
> [Non-text portions of this message have been removed]
>

20969. Re: using an antenna tuner with TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-16 19:48:12 UTC
From: Wim Penders
Topic: 20946 Message: 20969

Cristy,

No need for a separate antennatuner with the antenna's that you are using, dipoles have a impedance near 70 ohms that can easely tuned with the tuning network in your 520.

Only if you go far from the design frequency of the dipoles, you can need a tuner.

A common misunderstanding for the need of a tuner is that you can use every piece of wire to transmit, but there is no better antenna than a dipole or other antenna, that resonates on the working frequency.
All others are just a compromise and a tuner helps the transmitter to "see" a proper load, but the non-resonant antenna is just as bad as before.
Many use a "magic" antenna with a chicken feeder and a tuner, they get it in resonance, but do not understand that in that case a reasonable portion of the feeder is working as antenna, that radiates too, with unpleasant results as TVI and BCI problems.

I think you have a couple of good antenna's for the time beiing.
Have fun, and welcome back.

73, Wim PA0PGA

--- In TS-520_820_530_830@yahoogroups.com, Christy Hunter <kb6ltych@...> wrote:
>
> Hello,
> my call sign is old but I got back into this hobby last year and dragged my hubby into it as well. along with this was unpacking my TS-520 that I acquired back in 1985. it has essentially been sitting in the closet for all this time.
> back in the day, time antenna tuners were not in the picture in I happily dipped and tuned my rig to tx. I am now being told I should get a separate tuner by those with higher class lic than me.
> what do you all recommend for this rig?
> currently I have 2 home brew wire dipole antennas. one for 40 m, and 80 m.. the 80 m is an inverted V.
> thank you for your input.
> Christy
> KB6LTY
>
>
>
>
> [Non-text portions of this message have been removed]
>

20970. Re: [TS-520_820_530_830] Re: TX Audio Super Distorted

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-17 01:28:36 UTC
From: Christopher Maness
Topic: 20941 Message: 20970

W5RKL wrote:
> Chris,
>
> Although I do not recommend using an IC-761 to set the 520's CW UNIT
> crystal frequency
> (zero beat the 520's CW CAR UNIT crystal frequency at 3395.0Khz on the
> IC-761), if that's
> all you have you could try it. However, understand the accuracy of the
> CW CAR UNIT
> crystal adjustment will be quite a bit more accurate using a frequency
> counter.
>
> I am aware that a frequency counter's accuracy is based entirely on
> the accuracy of the
> counter's base reference crystal.
>
> The key is to adjust the 520's CW CAR UNIT crystal oscillator
> frequency to 3395.0Khz
> so its signal falls in the proper position in the crystal filter's
> bandpass.
>
> Regardless of the method you use, make sure you allow the 520 to warm
> up for a minimum
> of 30 minutes before attempting any of the adjustments. Then, after
> the warm up period,
> perform the adjustments in the follow order.
>
> 1. Voltage adjustment (9VDC "first" then the 3.3VDC)
>
I accidentally adjusted VR2. How do I get VR2 back to where it is
supposed to be? I was able to get 9V and 3.3V adjusted properly.
> 2. CW CAR UNIT adjustment (3395.0Khz)
> 3. Carrier null
>
Thanks,
Chris KQ6UP

20971. Re: [TS-520_820_530_830] Re: TX Audio Super Distorted

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-17 01:54:24 UTC
From: Lou Blasco
Topic: 20941 Message: 20971

Hi Chris,

VR2 is part of the RIT circuit and is used to adjust the zero point
for the control. Follow the RIT alignment procedure on page 48 of
the service manual and you'll be back on track.

Lou
VK3ALB

At 11:28 17/04/2009, you wrote:
>W5RKL wrote:
> > Chris,
> >
> > Although I do not recommend using an IC-761 to set the 520's CW UNIT
> > crystal frequency
> > (zero beat the 520's CW CAR UNIT crystal frequency at 3395.0Khz on the
> > IC-761), if that's
> > all you have you could try it. However, understand the accuracy of the
> > CW CAR UNIT
> > crystal adjustment will be quite a bit more accurate using a frequency
> > counter.
> >
> > I am aware that a frequency counter's accuracy is based entirely on
> > the accuracy of the
> > counter's base reference crystal.
> >
> > The key is to adjust the 520's CW CAR UNIT crystal oscillator
> > frequency to 3395.0Khz
> > so its signal falls in the proper position in the crystal filter's
> > bandpass.
> >
> > Regardless of the method you use, make sure you allow the 520 to warm
> > up for a minimum
> > of 30 minutes before attempting any of the adjustments. Then, after
> > the warm up period,
> > perform the adjustments in the follow order.
> >
> > 1. Voltage adjustment (9VDC "first" then the 3.3VDC)
> >
>I accidentally adjusted VR2. How do I get VR2 back to where it is
>supposed to be? I was able to get 9V and 3.3V adjusted properly.
> > 2. CW CAR UNIT adjustment (3395.0Khz)
> > 3. Carrier null
> >
>Thanks,
>Chris KQ6UP

>
>
>------------------------------------
>
>Yahoo! Groups Links
>
>
>

20972. Re: [TS-520_820_530_830] Re: TX Audio Super Distorted

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-17 02:03:58 UTC
From: Christopher Maness
Topic: 20941 Message: 20972

Lou Blasco wrote:
> Hi Chris,
>
> VR2 is part of the RIT circuit and is used to adjust the zero point
> for the control. Follow the RIT alignment procedure on page 48 of
> the service manual and you'll be back on track.
>
> Lou
> VK3ALB
>
>
I looked around in the manuals more and found it. Whew, I was nervous.

Thanks,
Chris KQ6UP

20973. Re: [TS-520_820_530_830] Re: TX Audio Super Distorted

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-17 03:38:45 UTC
From: Christopher Maness
Topic: 20941 Message: 20973

W5RKL wrote:
> The small metal blade you are talking about in the alignment tool
> should not be an issue.
>
> 73
> Mike
> W5RKL
>
OK, done. All values were out of spec. The voltages were too low. The TC1 was off freq. The carrier balance needed re tweaking. However, after I made all adjustments.

CW beats still heard on both sides of the carrier.
CARRIER knob stills only goes to full power when the knob is turned below 1 (but still not quite full output).
SSB Still hideously distorted when gain is turned up (even just to 3 with no compressor).

I am a little discouraged. Seems like such a beautiful radio seems to be a bit of a basket case. No wonder some one donated it to the salvation army ;o)

However, I am hard headed and want to get the ol' gal running again.

Any advice?

Thanks,
Chris KQ6UP

20974. Do TS530 radios have cathode resistors on the PA tubes?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-17 02:47:32 UTC
From: hczerwick
Topic: 20974 Message: 20974

I've got a radio on my bench, it's not mine. The owner was under the impression that one of the power amp tubes needed replacement. So he bought a pair of tubes off of ebay. One of the tubes had the index pin broken off of it. Well now that I've got the full story he inadvertently put this tube in rotated one pin off. So I guess the first time he keyed the mic he let the smoke out so to speak. Before I got the whole story from him I was looking at a radio with no output, which I've heard can be a result of the Cathode Resistors being open or out of value. I see illustrations around on the location and how to check these resistors on the 830 radios but I've found nothing on such resistors on the 530. Are they there or is there something else I should look at on this radio? If it's not solved in a week or so I button it up and it goes back.

Thanks AB2XG

20975. Re: [TS-520_820_530_830] Do TS530 radios have cathode resistors on the PA tubes?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-17 10:10:47 UTC
From: martin
Topic: 20974 Message: 20975

Hi. The TS-530S does indeed have cathode resisters. All the tinal
sections of the Kenwood hybrids are very similar.
See http://www.k4eaa.com/ for more information. You will also find
parts there.

Good Luck!

hczerwick wrote:
> I've got a radio on my bench, it's not mine. The owner was under the
> impression that one of the power amp tubes needed replacement. So he
> bought a pair of tubes off of ebay. One of the tubes had the index
> pin broken off of it. Well now that I've got the full story he
> inadvertently put this tube in rotated one pin off. So I guess the
> first time he keyed the mic he let the smoke out so to speak. Before
> I got the whole story from him I was looking at a radio with no
> output, which I've heard can be a result of the Cathode Resistors
> being open or out of value. I see illustrations around on the
> location and how to check these resistors on the 830 radios but I've
> found nothing on such resistors on the 530. Are they there or is
> there something else I should look at on this radio? If it's not
> solved in a week or so I button it up and it goes back.
>
> Thanks AB2XG
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to: www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at
http://www.defectivebydesign.org/what_is_drm"

20976. Re: [TS-520_820_530_830] Re: TX Audio Super Distorted

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-17 16:12:04 UTC
From: W5RKL
Topic: 20941 Message: 20976

Chris,

I have to wonder how "clean" the 14VDC supply is?

AC ripple on a DC voltage applied to the balance modulator can cause a balance modulator to become "unbalanced", producing irregular output even with the CAR control set to minimum.

I had a similar problem with an old Hallicrafter FPM-300 when a LV filter capacitor failed. AC ripple was causing the balance modulator to become "unbalanced" and no matter what setting the Drive control was set at, RF appeared at the balance modulator's output. Replacing the failed capacitor fixed the problem. I can't say for sure this "is" your problem. I just wonder how clean the 520's 14VDC supply is since it provides the voltage for quite a number of circuits, including the CAR control's variable 9VDC that controls the balance modulator in CW/TUNE modes plus the DC operating voltage for the speech amplifier, as well as quite a numer of other circuits.

If you have, or can borrow, an oscilloscope, connect the scope to the FIX CH AVR UNIT's pin labeled "14". If there is evidence of AC ripple, replace C21 and C22 with the same capacitance value "BUT" with a higher voltage rating of 25VDC. Kenwood recognised this in the 530, 820, and 830 series as the 14VDC filter capacitors in all 3 of these series now have a working voltage of 25VDC not 16VDC. A 16VDC rated capacitor in a 14VDC supply simply does not provide a sufficient maximum voltage safety margin.

Although I can't say for sure, Radio Shack "may" have 2200ufd 25VDC capacitors. Use axial lead caps but radial lead caps will work just fine, they just won't mount the same as axial lead caps will. Just ensure the cap voltage rating is 25VDC or higher and at the same capacitance, 2200ufd.

"IF" you replace C21 and C22, go back and redo the 9VDC and 3.3VDC adjustments. You may also have to redo the carrier null adjustment and, while you're at it, check and, if necessary, adjust the CW/TUNE CAR UNIT TC-1 crystal adjustment so the frequency is 3395.0Khz.

73
Mike
W5RKL

--- On Thu, 4/16/09, Christopher Maness <chris@...> wrote:
From: Christopher Maness <chris@...>
Subject: Re: [TS-520_820_530_830] Re: TX Audio Super Distorted
To: w5rkl@...
Cc: TS-520_820_530_830@yahoogroups.com
Date: Thursday, April 16, 2009, 10:38 PM

W5RKL wrote:
> The small metal blade you are talking about in the alignment tool should
not be an issue.

>
> 73
> Mike
> W5RKL
>
OK, done. All values were out of spec. The voltages were too low. The TC1 was off freq. The carrier balance needed re tweaking. However, after I made all adjustments.

CW beats still heard on both sides of the carrier.
CARRIER knob stills only goes to full power when the knob is turned below 1 (but still not quite full output).
SSB Still hideously distorted when gain is turned up (even just to 3 with no compressor).

I am a little discouraged. Seems like such a beautiful radio seems to be a bit of a basket case. No wonder some one donated it to the salvation army ;o)

However, I am hard headed and want to get the ol' gal running again.

Any advice?

Thanks,
Chris KQ6UP

[Non-text portions of this message have been removed]

20977. Re: Do TS530 radios have cathode resistors on the PA tubes?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-17 16:29:47 UTC
From: w5rkl
Topic: 20974 Message: 20977

Yes, the 530, like all the other hybrids, have cathode resistors. The 530 has "4" of the, R3, R4, R5, and R6, all "20 ohm 1/2 watt". They are located on the bottom of the 530's FINAL UNIT's PC board.

If the final tubes were inserted "1 pin off", it is likely these resistors were damaged. However, I would NOT look ONLY for damage to the cathode resistors, I would also look at the Rectifier Unit for damaged components as well as damage to the HV Unit components.

Depending on which pins were in the wrong socket holes can mean damage occurred in one or more areas so don't simply look for damaged cathode resistors. Inspect the RECTIFIER UNIT and the HV UNIT for damaged components plus inspect each board plug for overheating due to high current flow through the plug. A shorted plug can cause other problems that may not be evident at first glance.

If you do not have the 530's operating and service manuals, I recommend obtaining them before proceeding with any repairs. You can download them free at the following website.

http://www.n6wk.com/kenwood/

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@...> wrote:
>
> Hi. The TS-530S does indeed have cathode resisters. All the tinal
> sections of the Kenwood hybrids are very similar.
> See http://www.k4eaa.com/ for more information. You will also find
> parts there.
>
> Good Luck!
>
> hczerwick wrote:
> > I've got a radio on my bench, it's not mine. The owner was under the
> > impression that one of the power amp tubes needed replacement. So he
> > bought a pair of tubes off of ebay. One of the tubes had the index
> > pin broken off of it. Well now that I've got the full story he
> > inadvertently put this tube in rotated one pin off. So I guess the
> > first time he keyed the mic he let the smoke out so to speak. Before
> > I got the whole story from him I was looking at a radio with no
> > output, which I've heard can be a result of the Cathode Resistors
> > being open or out of value. I see illustrations around on the
> > location and how to check these resistors on the 830 radios but I've
> > found nothing on such resistors on the 530. Are they there or is
> > there something else I should look at on this radio? If it's not
> > solved in a week or so I button it up and it goes back.

> >
> > Thanks AB2XG
> >
> >
>
> --
> CUL8R
>
> KBOHAE kb0hae@... Martin Campbell
>
> A Satisfied Sidux Linux user! To get Sidux go to: www.sidux.com/index.html
> "Protect your digital freedom and privacy, eliminate DRM, learn more at
> http://www.defectivebydesign.org/what_is_drm"
>

20978. Re: [TS-520_820_530_830] Re: TX Audio Super Distorted

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-17 16:37:56 UTC
From: Chris Maness
Topic: 20941 Message: 20978

> If you have, or can borrow, an oscilloscope, connect the scope to the FIX CH
> AVR UNIT's pin labeled "14". If there is evidence of AC ripple, replace C21
> and C22 with the same capacitance value "BUT" with a higher voltage rating
> of 25VDC. Kenwood recognised this in the 530, 820, and 830 series as the
> 14VDC filter capacitors in all 3 of these series now have a working voltage
> of 25VDC not 16VDC. A 16VDC rated capacitor in a 14VDC supply simply does
> not provide a sufficient maximum voltage safety margin.

I do happen to have an oscilliscope that my wife tried to get me to
toss a few years back ;o)

>
> Although I can't say for sure, Radio Shack "may" have 2200ufd 25VDC
> capacitors. Use axial lead caps but radial lead caps will work just fine,
> they just won't mount the same as axial lead caps will. Just ensure the cap
> voltage rating is 25VDC or higher and at the same capacitance, 2200ufd.
>
> "IF" you replace C21 and C22, go back and redo the 9VDC and 3.3VDC
> adjustments. You may also have to redo the carrier null adjustment and,
> while you're at it, check and, if necessary, adjust the CW/TUNE CAR UNIT
> TC-1 crystal adjustment so the frequency is 3395.0Khz.

Ken, K4EAA suggested that I tune for actual center of the IF passband.
He stated that the SSB filter might be out of spec, and tuning for
the correct passband does make sense, as the CW passband actually
sounded a little worse after I zero beat the CAR with the 761.
>
>
> 73
> Mike
> W5RKL

Here is the full response that Ken made. Just wondering what you
think about it:

Hi Chris;

It sounds like you're missing a ground connection at your MIC/CAR
pots. A quick check with an ohmmeter should verify that.

The CW signal should be offset by 700Hz. You can pretty easily tune
it by ear so 700Hz peaks in the center of the passband of your CW
filter. If you only have an SSB filter, adjust it like you would the
USB and LSB carrier frequencies - Use the calibrator and adjust for
the lower corner frequency around 100Hz or so. The carrier
frequencies depend on the actual passband frequencies of the filters
installed, so they are not usually set to "spot on" frequencies, but

rather so that the signal is placed into the passband of the specific filter(s) properly.

Remember that because your 520S uses shared transceiver circuitry, what you hear on receive is what you'll sound like on transmit as well. That makes it simple!
Hope this helps,
Best 73's,
Ken

Ken Kemski K4EAA
3745 Allenwood Street
Sarasota, FL 34232

Thanks,
Chris KQ6UP

20979. Re: [TS-520_820_530_830] Do TS530 radios have cathode resistors on the PA tubes?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-17 16:47:23 UTC
From: Chris Maness
Topic: 20974 Message: 20979

On Thu, Apr 16, 2009 at 7:47 PM, hczerwick <hczerwick@...> wrote:
> I've got a radio on my bench, it's not mine. The owner was under the impression that one of the power amp tubes needed replacement. So he bought a pair of tubes off of ebay. One of the tubes had the index pin broken off of it. Well now that I've got the full story he inadvertently put this tube in rotated one pin off. So I guess the first time he keyed the mic he let the smoke out so to speak. Before I got the whole story from him I was looking at a radio with no output, which I've heard can be a result of the Cathode Resistors being open or out of value. I see illustrations around on the location and how to check these resistors on the 830 radios but I've found nothing on such resistors on the 530. Are they there or is there something else I should look at on this radio? If it's not solved in a week or so I button it up and it goes back.
>
> Thanks AB2XG

Yes, the 530 has fuse resistors.

Chris KQ6UP

20980. Re: [TS-520_820_530_830] Re: Do TS530 radios have cathode resistors on the PA tubes?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-17 17:41:42 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20974 Message: 20980

On Fri, 2009-04-17 at 16:29 +0000, w5rkl wrote:
> Yes, the 530, like all the other hybrids, have cathode resistors. The
> 530 has "4" of the, R3, R4, R5, and R6, all "20 ohm 1/2 watt". They
> are located on the bottom of the 530's FINAL UNIT's PC board.

The 520 has two, ten ohms each. Is there any reason for using four at
20 ohms? Is it a modification worth making?

> If the final tubes were inserted "1 pin off", it is likely these
> resistors were damaged. However, I would NOT look ONLY for damage to
> the cathode resistors, I would also look at the Rectifier Unit for
> damaged components as well as damage to the HV Unit components.

Damaged sockets, even. I can't see how it's possible to fit an octal
valve "one pin off" without the aid of a hammer.

> Depending on which pins were in the wrong socket holes can mean damage
> occurred in one or more areas so don't simply look for damaged cathode
> resistors. Inspect the RECTIFIER UNIT and the HV UNIT for damaged
> components plus inspect each board plug for overheating due to high
> current flow through the plug. A shorted plug can cause other problems
> that may not be evident at first glance.

Bear in mind that the cathode connection is broken out to three pins on
the valve base. Depending on which way round the valve was inserted
wrongly, it could either have shorted the heater supply and control grid
connections, or (potentially more seriously) connected the screen grid
and control grid connections, stuffing several hundred volts into the
bias supply through a couple of rather small RF chokes.

Gordon

20981. Re: Do TS530 radios have cathode resistors on the PA tubes?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-17 18:18:51 UTC
From: w5rkl
Topic: 20974 Message: 20981

Gordon,

Notice the subject, "TS-530", not "TS-520" and yes, the "530" does have "4" cathode resistors, R2, R3, R4, and R5, each 20 ohms at 1/2 watt, wire in parallel.

73
Mike
W5RKL

--- In TS-520_820_530_830@...m, Gordon JC Pearce MM3YEQ <gordon@...> wrote:
>
> On Fri, 2009-04-17 at 16:29 +0000, w5rkl wrote:
> > Yes, the 530, like all the other hybrids, have cathode resistors. The
> > 530 has "4" of the, R3, R4, R5, and R6, all "20 ohm 1/2 watt". They
> > are located on the bottom of the 530's FINAL UNIT's PC board.
>
> The 520 has two, ten ohms each. Is there any reason for using four at
> 20 ohms? Is it a modification worth making?
>
> > If the final tubes were inserted "1 pin off", it is likely these
> > resistors were damaged. However, I would NOT look ONLY for damage to
> > the cathode resistors, I would also look at the Rectifier Unit for
> > damaged components as well as damage to the HV Unit components.
>
> Damaged sockets, even. I can't see how it's possible to fit an octal
> valve "one pin off" without the aid of a hammer.
>
> > Depending on which pins were in the wrong socket holes can mean damage
> > occurred in one or more areas so don't simply look for damaged cathode
> > resistors. Inspect the RECTIFIER UNIT and the HV UNIT for damaged
> > components plus inspect each board plug for overheating due to high
> > current flow through the plug. A shorted plug can cause other problems
> > that may not be evident at first glance.
>
> Bear in mind that the cathode connection is broken out to three pins on
> the valve base. Depending on which way round the valve was inserted
> wrongly, it could either have shorted the heater supply and control grid
> connections, or (potentially more seriously) connected the screen grid
> and control grid connections, stuffing several hundred volts into the
> bias supply through a couple of rather small RF chokes.
>
> Gordon
>

20982. Re: Do TS530 radios have cathode resistors on the PA tubes?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-17 18:28:56 UTC
From: w5rkl
Topic: 20974 Message: 20982

Gordon,

The original post stated "one" of the final tube's center plastic "guide pin" was broken off. If the center guide pin is broken off, missing, the tube can be inserted in the socket any way the person inserts it. The tube can be rotated 180 degrees and the tube will still insert into the socket quite easily.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce MM3YEQ <gordon@...> wrote:
>
> On Fri, 2009-04-17 at 16:29 +0000, w5rkl wrote:
> > Yes, the 530, like all the other hybrids, have cathode resistors. The
> > 530 has "4" of the, R3, R4, R5, and R6, all "20 ohm 1/2 watt". They
> > are located on the bottom of the 530's FINAL UNIT's PC board.
>
> The 520 has two, ten ohms each. Is there any reason for using four at
> 20 ohms? Is it a modification worth making?
>
> > If the final tubes were inserted "1 pin off", it is likely these
> > resistors were damaged. However, I would NOT look ONLY for damage to
> > the cathode resistors, I would also look at the Rectifier Unit for
> > damaged components as well as damage to the HV Unit components.
>
> Damaged sockets, even. I can't see how it's possible to fit an octal
> valve "one pin off" without the aid of a hammer.
>
> > Depending on which pins were in the wrong socket holes can mean damage
> > occurred in one or more areas so don't simply look for damaged cathode
> > resistors. Inspect the RECTIFIER UNIT and the HV UNIT for damaged
> > components plus inspect each board plug for overheating due to high
> > current flow through the plug. A shorted plug can cause other problems
> > that may not be evident at first glance.
>
> Bear in mind that the cathode connection is broken out to three pins on
> the valve base. Depending on which way round the valve was inserted
> wrongly, it could either have shorted the heater supply and control grid
> connections, or (potentially more seriously) connected the screen grid
> and control grid connections, stuffing several hundred volts into the
> bias supply through a couple of rather small RF chokes.
>
> Gordon
>

20983. Re: [TS-520_820_530_830] Re: Do TS530 radios have cathode resistors on the PA tubes?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-17 18:36:19 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20974 Message: 20983

On Fri, 2009-04-17 at 18:18 +0000, w5rkl wrote:
> Gordon,
>
> Notice the subject, "TS-530", not "TS-520" and yes, the "530" does
> have "4" cathode resistors, R2, R3, R4, and R5, each 20 ohms at 1/2
> watt, wire in parallel.

Yes, I know. I've got a TS-520, which has two, and I've repaired a couple of TS-530s, which have four. What I was asking was, is there a good reason for using four in the later radio, and is it worth replacing the two 10-ohm resistors with four 20-ohm resistors? Presumably they changed it for a reason - the rest of the PA is pretty similar.

The only thing I can think of is that it's more likely to fail "softer" and operate with degraded performance with three resistors, if one fails.

Gordon

20984. Re: [TS-520_820_530_830] Re: Do TS530 radios have cathode resistors on the PA tubes?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-17 18:37:43 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 20974 Message: 20984

On Fri, 2009-04-17 at 18:28 +0000, w5rkl wrote:
> Gordon,
>
> The original post stated "one" of the final tube's center plastic
> "guide pin" was broken off. If the center guide pin is broken off,
> missing, the tube can be inserted in the socket any way the person
> inserts it. The tube can be rotated 180 degrees and the tube will
> still insert into the socket quite easily.

Ah, that makes sense. I'm surprised that breaking that didn't break the
valve seal, which extends down into the locating pin.

Gordon

20985. Re: Do TS530 radios have cathode resistors on the PA tubes?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-17 19:42:21 UTC
From: w5rkl
Topic: 20974 Message: 20985

Gordon,

For what ever reason Kenwood used 4 cathode resistors, the end result in resistance is the same 5 ohms.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce MM3YEQ <gordon@...> wrote:
>
> On Fri, 2009-04-17 at 18:18 +0000, w5rkl wrote:
> > Gordon,
> >
> > Notice the subject, "TS-530", not "TS-520" and yes, the "530" does
> > have "4" cathode resistors, R2, R3, R4, and R5, each 20 ohms at 1/2
> > watt, wire in parallel.
>
> Yes, I know. I've got a TS-520, which has two, and I've repaired a
> couple of TS-530s, which have four. What I was asking was, is there a
> good reason for using four in the later radio, and is it worth replacing
> the two 10-ohm resistors with four 20-ohm resistors? Presumably they
> changed it for a reason - the rest of the PA is pretty similar.
>
> The only thing I can think of is that it's more likely to fail "softer"
> and operate with degraded performance with three resistors, if one
> fails.
>
> Gordon
>

20986. Re: [TS-520_820_530_830] Re: TX Audio Super Distorted

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-17 23:07:25 UTC
From: Christopher Maness
Topic: 20941 Message: 20986

W5RKL wrote:
> Chris,
>
> In an earlier e-mail response I provided that referred to adjusting
> the CW CAR UNIT's crystal frequency to 3395.0Khz stated basically the
> same thing Ken stated, the key is to adjust the CAR UNIT crystal
> frequency so it falls in the proper position in the crystal filter's
> bandpass. My response was not worded the same as Ken's but the meaning
> is the same.
>
>
> Mike
> W5RKL
>
>
p.s. I tried every position on the carrier TC for CW (all 360 deg), and none completely eliminated the unwanted sideband. I am now wondering if the LO crystal is out of spec. I want to CC the group so as to keep a running log of what I did in case another poor chap needs this thread.

I also second the feeling on the CB hacks. I have a FT-101E that I got several years ago. It was my first full 100watt ham radio. The 10m A section xtal had been subbed out for lame Chicken Band "freebanders." However, in ordering a new xtal, I found the xtal manufacturer was right around the corner from my job, and I got a factory tour of an xtal manufacturer plant.

Chris KQ6UP

20987. Re: A TS-520S Question (Maybe Save a Spot in Your Queue) Was: Super Distorted Audio

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-18 16:39:09 UTC
From: Christopher Maness
Topic: 20987 Message: 20987

Ken Kemski wrote:
>
> Hi Chris;
>
> I agree that you're going to have to get in there and start
> troubleshooting at a component level.
>
> The carrier oscillator assembly is very straightforward, not much to
> go wrong. The CW crystal is selected by a DC level and a diode
> switch. Depending on whether it's transmit or receive, a 22pf cap is
> put in series with the crystal - That provides the ~700 Hz offset.
> The frequency us determined by the crystal, a shunt trimmer, and the
> series cap (in transmit). They are switched in by two signal diodes.
> Have at it!
I was looking over the schematic this morning and figured that is how it works. What is strange to me, is how I could get the LO Xstal to vary about 2K with TC1, but the receive frequency was not varying by the same amount. It seems that if one varied (since mixing is addition or subtraction not multiplication) then it should vary by the same amount. I need to find a local elmer with some good test equipment. All I have is an oscilloscope, DVM, and a calibrated receiver. I miss my friend Rich AB4AW. He worked in commercial two way radio, and had everything. That is how I got my FT-101E lined up.
>
> Best 73's,
> Ken
>
> Ken Kemski K4EAA
> 3745 Allenwood Street
> Sarasota, FL 34232
>
> <mailto:ken@...>
Thanks guys.

Chris KQ6UP

20988. Re: A TS-520S Question (Maybe Save a Spot in Your Queue) Was: Super Distorted Audio

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-18 17:44:50 UTC
From: W5RKL
Topic: 20987 Message: 20988

Chris,

The reason you only hear a ~700Hz instead of ~ 2Khz is how the 520's balanced ring detector circuit on the Generator Unit is configured/arranged. However, this is how I interpret how the balance ring detector on the 520's Generator Unit works. A balance ring detector compares the two RD1 and RD2 signals.

If you look at the 520's IF UNIT, notice RD1 and RD2 signals. RD1 is the "positive" point of T6 while RD2 is the "negative" point of T6. Both signals are fed to the balance ring detector diodes, D9 thru D12, but only one output signal, after mixing with the Car Unit signal, will be fed to the audio amplifier. That limits the swing ~700Hz instead of ~2Khz you hear on the separate receiver.

This may not be "exactly" correct but that's how I interpret how a balanced ring detector works. Ken may set me straight on this and/or correct any deficiencies I have in my understanding of how this all works.

73
Mike
W5RKL

--- On Sat, 4/18/09, Christopher Maness <chris@...> wrote:
From: Christopher Maness <chris@...>
Subject: Re: A TS-520S Question (Maybe Save a Spot in Your Queue) Was: Super Distorted Audio
To: "Ken Kemski" <ken@...>
Cc: w5rkl@..., TS-520_820_530_830@yahoogroups.com
Date: Saturday, April 18, 2009, 11:39 AM

Ken Kemski wrote:
>
> Hi Chris;
>
> I agree that you're going to have to get in there and start
troubleshooting at a component level.
>
> The carrier oscillator assembly is very straightforward, not much to go
wrong. The CW crystal is selected by a DC level and a diode switch. Depending
on whether it's transmit or receive, a 22pf cap is put in series with the
crystal - That provides the ~700 Hz offset. The frequency us determined by the
crystal, a shunt trimmer, and the series cap (in transmit). They are switched
in by two signal diodes. Have at it!
I was looking over the schematic this morning and figured that is how it works.
What is strange to me, is how I could get the LO Xstal to vary about 2K with
TC1, but the receive frequency was not varying by the same amount. It seems

that if one varied (since mixing is addition or subtraction not multiplication) then it should vary by the same amount. I need to find a local elmer with some good test equipment. All I have is an oscilloscope, DVM, and a calibrated receiver. I miss my friend Rich AB4AW. He worked in commercial two way radio, and had everything. That is how I got my FT-101E lined up.

> Best 73's,
> Ken
>
> Ken Kemski K4EAA
> 3745 Allenwood Street
> Sarasota, FL 34232
>
> <mailto:ken@...>

Thanks guys.

Chris KQ6UP

[Non-text portions of this message have been removed]

20989. Re: A TS-520S Question (Maybe Save a Spot in Your Queue) Was: Super Distorted Audio

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-18 17:52:15 UTC
From: W5RKL
Topic: 20987 Message: 20989

I meant to say, "only one of the RD1 or RD2 signals will produce an output from the balanced ring detector to the audio amplifier".

Again, I could be wrong or only partial correct on this.

73
Mike
W5RKL

--- On Sat, 4/18/09, Christopher Maness <chris@...> wrote:
From: Christopher Maness <chris@...>
Subject: Re: A TS-520S Question (Maybe Save a Spot in Your Queue) Was: Super Distorted Audio
To: "Ken Kemski" <ken@...>
Cc: w5rkl@..., TS-520_820_530_830@yahoogroups.com
Date: Saturday, April 18, 2009, 11:39 AM

Ken Kemski wrote:
>
> Hi Chris;
>
> I agree that you're going to have to get in there and start troubleshooting at a component level.
>
> The carrier oscillator assembly is very straightforward, not much to go wrong. The CW crystal is selected by a DC level and a diode switch. Depending on whether it's transmit or receive, a 22pf cap is put in series with the crystal - That provides the ~700 Hz offset. The frequency us determined by the crystal, a shunt trimmer, and the series cap (in transmit). They are switched in by two signal diodes. Have at it!
I was looking over the schematic this morning and figured that is how it works. What is strange to me, is how I could get the LO Xstal to vary about 2K with TC1, but the receive frequency was not varying by the same amount. It seems that if one varied (since mixing is addition or subtraction not multiplication) then it should vary by the same amount. I need to find a local elmer with some good test equipment. All I have is an oscilloscope, DVM, and a calibrated receiver. I miss my friend Rich AB4AW. He worked in commercial two way radio, and had everything. That is how I got my FT-101E lined up.
>
> Best 73's,
> Ken
>
> Ken Kemski K4EAA
> 3745 Allenwood Street
> Sarasota, FL 34232

>
> <mailto:ken@...>
Thanks guys.

Chris KQ6UP

[Non-text portions of this message have been removed]

20990. VFO-230 Digital Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-18 19:11:12 UTC
From: Gordon
Topic: 20990 Message: 20990

I am looking for a Digital Board for a VFO-230.
Anyone have one to sell me?

thanks,
Gordon
N6WK

20991. Re: A TS-520S Question (Maybe Save a Spot in Your Queue) Was: Super Distorted Audio

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-18 19:55:01 UTC
From: Christopher Maness
Topic: 20987 Message: 20991

W5RKL wrote:
> Chris,
>
> The reason you only hear a ~700Hz instead of ~ 2Khz is how the 520's
> balanced ring detector circuit on the Generator Unit is
> configured/arranged. However, this is how I interpret how the balance
> ring detector on the 520's Generator Unit works. A balance ring
> detector compares the two RD1 and RD2 signals.
>
I will have to study this out too. Actually changing TC1 (CARRIER BOARD) only effects the MARKER tone by about 30~50Hz. Also, the switching diode that inserts and removes a capacitor to go from CW RX to CW TX is supposed to move the LO (CAR) by 700Hz for the tone offset of CW. My rig is only actually changing the LO (CAR) by ~300Hz (maybe the CARRIER board needs some parts replaced). There is something wrong there. Also, I think a change of 2kHz for the LO should equal a change of 2kHz in the IF. Otherwise, when the switching diode changes the 700Hz between RX/TX in CW, there would not be enough of a shift for a CW offset.

I am having fun trying to fix this. It was very frustrating at first because I am impatient, and want to fix the thing in one shot. I remember it took some patients working on my Ol' FT-101E too. Especially since a CBer had gotten a hold of it.

Thanks guys,
Chris KQ6UP
(909) 223-9179

20992. SG swich

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-19 03:54:46 UTC
From: Seewoosankar Mandary
Topic: 20992 Message: 20992

Hello Group
Can some body please tell me what is the designation of the SG swith for a
TS 830s on the CIRCUIT diagram.
I have been looking for it but , may be due to poor eye sight , I do not see
it. If you can indicate on which quadrant of the diagram it is located,
that would be great.
Regards and thanks
Jacky 3B8CF

Please Visit :
http://www.qsl.net/3b8cf
http://www.qsl.net/mars

[Non-text portions of this message have been removed]

20993. Re: SG swich

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-19 04:41:40 UTC
From: w5rkl
Topic: 20992 Message: 20993

The SG switch is designated "S20" on the schematic and is located on the far upper right, just right of the "X-vter" socket.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Seewoosankar Mandary" <3b8cf@...> wrote:
>
> Hello Group
> Can some body please tell me what is the designation of the SG swith for a
> TS 830s on the CIRCUIT diagram.
> I have been looking for it but , may be due to poor eye sight , I do not see
> it. If you can indicate on which quadrant of the diagram it is located,
> that would be great.
> Regards and thanks
> Jacky 3B8CF
>
>
> Please Visit :
> http://www.qsl.net/3b8cf
> http://www.qsl.net/mars
>
> [Non-text portions of this message have been removed]
>

20994. Re: [TS-520_820_530_830] Re: SG swich

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-19 09:08:58 UTC
From: Seewoosankar Mandary
Topic: 20992 Message: 20994

Hello Mike,
Thanks for the info.
Regards
Jacky 3B8CF

Please Visit :
http://www.qsl.net/3b8cf
http://www.qsl.net/mars
-------Original Message-------

From: w5rkl
Date: 4/19/2009 8:41:57 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: SG swich

The SG switch is designated "S20" on the schematic and is located on the far
upper right, just right of the "X-vter" socket.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Seewoosankar Mandary" <3b8cf@..
> wrote:
>
> Hello Group
> Can some body please tell me what is the designation of the SG swith for
a
> TS 830s on the CIRCUIT diagram.
> I have been looking for it but , may be due to poor eye sight , I do not
see
> it. If you can indicate on which quadrant of the diagram it is located,
> that would be great.
> Regards and thanks
> Jacky 3B8CF
>
>
> Please Visit :
> http://www.qsl.net/3b8cf
> http://www.qsl.net/mars
>
> [Non-text portions of this message have been removed]
>

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.12.0/2066 - Release Date: 04/18/09
09:55:00

[Non-text portions of this message have been removed]

20995. TS-820s audio out low

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-19 18:21:43 UTC
From: Kevin Rea
Topic: 20995 Message: 20995

hi guys,
I have a 820s and the audio/microphone gain needs to be turned up all the way. I have the compression off. in fact, if i use the compression, it does not increase it at all.

I am using an mc-60 microphone that is in good working order.

what should I check to increase the audio on this rig ?

thanks,
Kevin Rea
K6REa

20996. Re: [TS-520_820_530_830] TS-820s audio out low

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-19 21:31:38 UTC
From: Dave wej
Topic: 20995 Message: 20996

how are suppling voltage to mc-60 (do you have an internal battery), how
does it do on a stock hand mike... did you rewire the mc60 or using 8 pin to
4 pin adapter (check that)

if it is ok on hand mike, then I would suspect the mike still.

Dave Garber
VE3WEJ/VE3IE

----- Original Message -----
From: "Kevin Rea" <kevinrea@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, April 19, 2009 2:21 PM
Subject: [TS-520_820_530_830] TS-820s audio out low

> hi guys,
> I have a 820s and the audio/microphone gain needs to be turned up all the
> way. I have the compression off. in fact, if i use the compression, it
> does not increase it at all.
>
> I am using an mc-60 microphone that is in good working order.
>
> what should I check to increase the audio on this rig ?
>
> thanks,
> Kevin Rea
> K6REa
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

20997. Re: TS-820s audio out low

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-20 02:01:33 UTC
From: Kevin Rea
Topic: 20995 Message: 20997

the mc-60 has internal battery.
i have tried 4 different microphones..
they all give the same result.
i have to have the mike gain up full and speak very loudly
at the mike screen.

kevin

20998. Re: TS-820s audio out low

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-20 03:29:28 UTC
From: w5rkl
Topic: 20995 Message: 20998

Hello Kevin,

Set the MIC gain at 9 o'clock, VOX gain at 9 o'clock, then flip the VOX switch up. Speak normally into the microphone. If VOX trips, keys the transmitter with the above settings, the speech amplifier is working properly.

If the above setting does not make VOX key the transmitter and you have to turn the MIC gain setting and VOX gain setting to the settings you mentioned then I would suspect the problem is in the speech amplifier.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Kevin Rea" <kevinrea@...> wrote:
>
> the mc-60 has internal battery.
> i have tried 4 different microphones..
> they all give the same result.
> i have to have the mike gain up full and speak very loudly
> at the mike screen.
>
> kevin
>

20999. CARRIER Board and Balanced Modulator Theory of Operation?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-20 16:14:20 UTC
From: Chris Maness
Topic: 20999 Message: 20999

I wanted to finish our discussion on the theory of operation of the carrier board, so that I can make sure that I understand it correctly. You had suggested that a 2k shift in LO frequency on the CARRIER board would cause a smaller shift to the actual received frequency (30-50Hz). This is indeed the way my radio is behaving. However, a 700Hz shift from the transmitted carrier frequency is required to hear a beat tone for CW operation. The circuit by means of diode switching circuit it inserts a 22pF cap in series to move the xtals frequency by 700Hz. However, using a general coverage receiver, it looks like it is only shifting 300Hz. I plan on purchasing a frequency counter to verify this.

If the frequency shift is 700Hz at the LO, should not the frequency shift be the same for the actual received frequency? Again subject to verification by the freq. counter, but there is definitely something wrong because I can't get the CW signal through the right position in the passband no matter how I adjust TC1. If I am confused or wrong please help me out.

Thanks,
Chris KQ6UP

21000. TS820 readout

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-20 20:27:01 UTC
From: Harlan
Topic: 21000 Message: 21000

I inherited the '820, and has performed rather good. Now, when I turn it on, it sometimes goes into a scan mode, and it does change the freq's when it does it.
Sometimes it only scans a few MC, and then maybe will scan a longer amount. I used to just shut it down, and restart, and it was OK. Now the numbers on the readout, make no sense at all and not all of them are displayed. They do react with the VFO tuner, but not correctly.
KJ4GXN

21001. AT-200

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-20 23:57:10 UTC
From: Tate Antrim
Topic: 21001 Message: 21001

I just recently picked up an AT-200. It seems fine but the SWR graphics of the meter are a very, very light orange/yellow. Shouldn't this be red? As such I can hardly see it. If anyone has a spare AT-200 (AT-230 I think shares the same meter) meter and would be willing to part with it please let me know. I checked with a few folks and none have this meter anywhere. I would like to exchange it out for one I can see.

Thanks

KD8HJA

[Non-text portions of this message have been removed]

21002. Re: [TS-520_820_530_830] AT-200

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-21 01:42:21 UTC
From: Dave wej
Topic: 21001 Message: 21002

> the meter are a very, very light orange/yellow.

mine too sounds normal....

Dave Garber
VE3WEJ/VE3IE

21003. RE: [TS-520_820_530_830] AT-200

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-21 02:04:13 UTC
From: Tate Antrim
Topic: 21001 Message: 21003

Well I wasn't too sure.the serial number is around 750,00. I thought maybe it had set in the sun too long?

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Dave wej
Sent: Monday, April 20, 2009 9:42 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] AT-200

> the meter are a very, very light orange/yellow.

mine too sounds normal....

Dave Garber
VE3WEJ/VE3IE

[Non-text portions of this message have been removed]

21004. Re: [TS-520_820_530_830] AT-200

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-21 02:04:21 UTC
From: Lou Blasco
Topic: 21001 Message: 21004

This happens a lot with older equipment that have been exposed to sunlight. Take a look at any HP gear with meters, the red seems to fade in some cases to nothing.

You can try to make your own meter scale using your PC. with the following software.

http://tonnesoftware.com/meter.html

Lou
VK3ALB

At 11:42 21/04/2009, you wrote:
> > the meter are a very, very light orange/yellow.
>
>
>mine too sounds normal....
>
>
>Dave Garber
>VE3WEJ/VE3IE

21005. Re: AT-200

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-21 02:35:59 UTC
From: sv0xbq
Topic: 21001 Message: 21005

Mine is the same light orange so it's as is or it's aged the same.

The meter needle sticks on mine just enough to be annoying. Has anyone got a fix for this.

Chris SV0XBQ/9

--- In TS-520_820_530_830@yahoogroups.com, "Tate Antrim" <kd8hja@...> wrote:
>
> I just recently picked up an AT-200. It seems fine but the SWR graphics of
> the meter are a very, very light orange/yellow. Shouldn't this be red? As
> such I can hardly see it. If anyone has a spare AT-200 (AT-230 I think
> shares the same meter) meter and would be willing to part with it please let
> me know. I checked with a few folks and none have this meter anywhere. I
> would like to exchange it out for one I can see.
>
>
>
> Thanks
>
>
>
> KD8HJA
>
>
>
> [Non-text portions of this message have been removed]
>

21006. Fixed CH Crystal

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-21 03:16:22 UTC
From: blacklabpupp
Topic: 21006 Message: 21006

I am going to put a couple of crystals in the open fixed channel slots. Has anyone had used JAN? I know that they are expensive compared to others, but anyone know of a better place to purchase them or know where to find them on the web that may have them already? Gene

21007. Re: Fixed CH Crystal

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-21 13:03:16 UTC
From: w5rkl
Topic: 21006 Message: 21007

Hello Gene,

International Crystals in Oklahoma City, Oklahoma is another source for crystals.

http://www.icmfg.com/hamradio-manufacturers.html

Typical price is $21.95 plus shipping. Jans Crystals or International Crystals do not have "off the shelf" ready made crystals for Kenwood Hybrids. Both companies will have to make the crystal first then ship it to you. This usually takes about 3 weeks to receive the crystal.

Make sure you read and fully understand the FIXED CHANNEL OPERATION section in the radio's manual before ordering the crystal. Use the formula provided in the manual to determine the crystal frequency required for your specific frequency operation.

A fixed channel crystal provides one of the following options ONLY:

1. VFO receive, crystal control transmit
2. Crystal control receive, VFO controlled transmit
3. Crystal control transmit and receive, no VFO operation.

Remember, the fixed channel crystal options will not allow a non-WARC band Kenwood hybrid such as the TS-520 or TS-820 (all versions), to operate on any of the WARC bands, or any other band that is not selectable through the band switch. The FIX CHANNEL feature "replaces" the VFO and provides one of the 3 features listed above depending on what position the FUNCTION switch is set to.

The AUX band switch operation setting is not the same as FIX CHANNEL operation so don't confuse the two as being the same. The AUX band switch setting is for "receive only", no transmitting is available in AUX position. For further details on the AUX band switch setting, again, read the AUX operation section in the radio's manual.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "blacklabpupp" <blacklabpupp@...> wrote:
>
> I am going to put a couple of crystals in the open fixed channel slots. Has anyone had used JAN? I know that they are expensive compared to others, but anyone know of a better place to purchase them or know where to find them on the web that may have them already?
Gene
>

21008. Re: CARRIER Board and Balanced Modulator Theory of Operation?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-21 15:44:14 UTC
From: Chris Maness
Topic: 20999 Message: 21008

On Tue, Apr 21, 2009 at 8:24 AM, W5RKL <w5rkl@...> wrote:
> Chris,
>
> Have you reviewed the 520S service manual's "Troubleshooting Flow Chart"
> starting on page 41? If not, I recommend reviewing that first.
>
> Based on the information you have provided, I ran through the flow chart.
> Every step resulted in the "OK" path which ultimately lead to the last part,
> "Poor Receive Carrier Balance".
>
> Now, having said that, I do NOT recommend immediately jumping to adjusting
> the Carrier Balance adjustment, TC-2, on the Generator Unit until you are
> sure all previous steps have been checked and, if necessary, aligned
> properly and that includes the CAR UNIT's output frequencies.
>
> I do not believe, at least at this point, your CW receive problem is caused
> by a bad CAR UNIT crystal. However, I do believe the CW receive problem is
> an "alignment" problem. A previous owner "may" have improperly adjusted the
> 520 and now you are stuck with weeding out these improper adjustments and
> that is going to require you to go through each individual adjustment step
> to ensure each step is properly aligned. This may seem boring or not needed.
> However, since you do NOT know what any previous owner has done to the 520
> you must never assume the earlier steps are aligned and operating properly,
> regardless of what the receiver may "appear" to be telling you! As I said
> earlier, "looks can be deceiving" and we both know what happens when we
> "assume" something! In most cases, our "assumptions" are wrong. You will
> only know for sure by checking.
>
> As for the distortion in the transmit signal, this may, as Ken has said, be
> a grounding issue, possibly at the MIC socket or a ground on one of the PC
> boards. That will take some tracing to locate and fix that problem as well.
> However, as I stated before, troubleshoot "one problem at a time".
>
> It's not an easy task but in the end, you will know more about your 520 than
> the average 520 owner/operator. Do not dismiss reading the circuit
> descriptions as this will enhance your ability to not only locate and fix
> your problem but also to understand "why" you are making a specific
> adjustment in the service manual.
>
> 73
> Mike
> W5RKL

Thanks mike. I am trying to locate an elmer with the proper test
gear. I am debating buying my own frequency counter. They are ~$100

for a decent one on ebay, but spectrum analyzers are $2000. I am also thinking of asking our club to have a fund raiser and purchase a full sweet of test gear.

I do agree with you on that xtal. It definitely behaves strangely. I was pouring over the schematic, and I can't for the life of me figure out why the received signal only changes very little when I change the carrier. I even studied out balanced modulator theory.

Amen to learning the rig. That is why I am not giving up on it. I believe it will help me understand rigs better in general -- especially boat anchors.

Chris Maness
KQ6UP

21009. Re: Fixed CH Crystal - because its THERE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-21 15:56:52 UTC
From: Greg Fox
Topic: 21006 Message: 21009

hey everyone, I'm Greg, studying for my license test and fixing up a TS-520s. I have a home made Carolina Windom Antenna I'm listening to you guys on and cant wait to say hi when I get my FCC ticket and can light up my tubes. This thread interests me and I thot I would stop lurking and give yall a shout out.

Ok, so I admit it, I am a gear whore, if it has a button on it I want to use it and even though I have acquired a vfo and dont really need fixed channel, I hate to have empty crystal sockets and a perfectly good knob that dosent do nothing when I turn it.

Aggh! it makes me twitch, ok sorry. I'm good.

Could some of you suggest a list of some good, neat, useful or just marginally interesting crystal freq to final frequencies that could put these sockets to use? I live in the southeast if that matters and would be interested in your suggestions. That would be way better than just me picking some random freq's to waste money on.

Thanks for your suggestions
Greg

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello Gene,
>
> International Crystals in Oklahoma City, Oklahoma is another source for crystals.
>
> http://www.icmfg.com/hamradio-manufacturers.html
>
> Typical price is $21.95 plus shipping. Jans Crystals or International Crystals do not have "off the shelf" ready made crystals for Kenwood Hybrids. Both companies will have to make the crystal first then ship it to you. This usually takes about 3 weeks to receive the crystal.
>
> Make sure you read and fully understand the FIXED CHANNEL OPERATION section in the radio's manual before ordering the crystal. Use the formula provided in the manual to determine the crystal frequency required for your specific frequency operation.
>
> A fixed channel crystal provides one of the following options ONLY:
>
> 1. VFO receive, crystal control transmit
> 2. Crystal control receive, VFO controlled transmit
> 3. Crystal control transmit and receive, no VFO operation.
>
> Remember, the fixed channel crystal options will not allow a non-WARC band Kenwood hybrid such as the TS-520 or TS-820 (all versions), to operate on any of the WARC bands, or any other band that is not selectable through the band switch. The FIX CHANNEL feature "replaces" the VFO and provides one of the 3 features listed above depending on what

position the FUNCTION switch is set to.
>
> The AUX band switch operation setting is not the same as FIX CHANNEL operation so don't confuse the two as being the same. The AUX band switch setting is for "receive only", no transmitting is available in AUX position. For further details on the AUX band switch setting, again, read the AUX operation section in the radio's manual.
>
>
> 73
> Mike
> W5RKL
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "blacklabpupp" <blacklabpupp@> wrote:
> >
> > I am going to put a couple of crystals in the open fixed channel slots. Has anyone had used JAN? I know that they are expensive compared to others, but anyone know of a better place to purchase them or know where to find them on the web that may have them already? Gene
> >
>

21010. Re: [TS-520_820_530_830] Re: Fixed CH Crystal - because its THERE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-21 16:13:29 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 21006 Message: 21010

On Tue, 2009-04-21 at 15:56 +0000, Greg Fox wrote:

> Ok, so I admit it, I am a gear whore, if it has a button on it I want
> to use it and even though I have acquired a vfo and dont really need
> fixed channel, I hate to have empty crystal sockets and a perfectly
> good knob that dosent do nothing when I turn it.

My TS-520 has been modified by the previous owner to use the FIX CH knob
to select different CW filter widths. Far more useful...

Gordon

21011. Re: Fixed CH Crystal - because its THERE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-21 16:20:13 UTC
From: Greg Fox
Topic: 21006 Message: 21011

Gordon, My Cw filter socket is empty too. :(I am looking at the wire in one international Crystals makes for the 520s, it comes in a wide and narrow version. Are you switching between 2 cw filters or does it have a gimmick to do it some other way?
Greg

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce MM3YEQ <gordon@...> wrote:
>
> On Tue, 2009-04-21 at 15:56 +0000, Greg Fox wrote:
>
> > Ok, so I admit it, I am a gear whore, if it has a button on it I want
> > to use it and even though I have acquired a vfo and dont really need
> > fixed channel, I hate to have empty crystal sockets and a perfectly
> > good knob that dosent do nothing when I turn it.
>
> My TS-520 has been modified by the previous owner to use the FIX CH knob
> to select different CW filter widths. Far more useful...
>
> Gordon
>

21012. AT-230

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-21 16:14:56 UTC
From: danielkohler61
Topic: 6938 Message: 21012

The AT-230 is not equipped with a lighted meter. For us old guys that can be a problem under low light conditions. A simple question, but has anyone been able to find a simple wasy to light this meter?

Dan

21013. TS 830S "Fix" button

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-21 16:21:35 UTC
From: k2pjw
Topic: 21013 Message: 21013

Hi,
Just curious about something. There are no extra crystals in my radio. Is the display supposed to have any frequency on it when the "fix" button is pushed? When I first got my ts 830s it did not. After doing work on the PLL board it reads 6.500 when I push in the "Fix" button. Did I inadvertently repair something that should have been there to begin with or should the display indeed display NO frequency unless there is a crystal onboard?
Thank You.

21014. Re: AT-230

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-21 16:38:34 UTC
From: ka8rzl
Topic: 6938 Message: 21014

--- In TS-520_820_530_830@yahoogroups.com, "danielkohler61" <dnkohler@...> wrote:
>
> The AT-230 is not equipped with a lighted meter. For us old guys that can be a problem under low light conditions. A simple question, but has anyone been able to find a simple wasy to light this meter?
>
> Dan
>
Hi
I have not lighted the AT-230, but I did the AT-200. Uses the same brackets as the TS-520. It has the 2 cutouts for the little rubber bushings. I install 2 standard Kenwood pilot lights and ran 13.8vdc to the lights. It took some time to get to the mounting spots but was well worth it. I bet the AT-230 is the same.

73
Phil WU8P

21015. Re: [TS-520_820_530_830] Re: Fixed CH Crystal - because its THERE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-21 16:49:31 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 21006 Message: 21015

On Tue, 2009-04-21 at 16:20 +0000, Greg Fox wrote:
> Gordon, My Cw filter socket is empty too. :(I am looking at the wire
> in one international Crystals makes for the 520s, it comes in a wide
> and narrow version. Are you switching between 2 cw filters or does it
> have a gimmick to do it some other way?

It's got the proper CW filter, but also a third-party board with a switchable audio filter (Wood & Douglas CWF-1). The filter has four stages giving five settings, but I think the narrowest is left disconnected.

Gordon

21016. Re: CARRIER Board and Balanced Modulator Theory of Operation?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-21 19:03:03 UTC
From: Chris Maness
Topic: 20999 Message: 21016

On Tue, Apr 21, 2009 at 11:56 AM, W5RKL <w5rkl@...> wrote:
> Chris and Ken,
>
> Chris, you initially stated you could zero beat the CW crystal using a
> separate receiver at 3395.0Khz yet in another response you said you
> couldn't. I still question the accuracy of using a separate receiver to
> adjust the CW crystal frequency.

Yes this is correct. I was able to get it there at first, but after
reading Ken's post, I tried to find the "sweet" spot on the IF filter.
Then, I tried to put it back and it would not go back.

>
> If you recall, I stated that using a separate receiver is not an accurate
> method to adjust the CW carrier unit's crystal adjustment (TC-1). I also
> stated the proper steps to perform this adjustment were listed in the 520's
> service manual which also lists the test equipment required to perform this
> adjustment properly.

I am looking into getting a frequency counter.

>
> If, however, symptoms have changed, it is quite possible the CW crystal is
> failing and a frequency counter connected to the carrier unit's output will
> clearly indicate this.

Yep

>
> As for the distortion in transmit and based on Ken's suggestion, until you
> actually check the MIC gain pot for a broken ground connection, you will not
> make any progress in this area either. This is the easiest of the two
> problems to work on and requires, at most, an ohm meter. I still believe in
> working on one problem at a time.

Thanks, I will check that next.

>
> With that, I have nothing more to add to this discussion.
>
> 73
> Mike
> W5RKL

73's de KQ6UP

21017. Re: TS820 readout

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-21 19:01:47 UTC
From: Mike
Topic: 21000 Message: 21017

--- In TS-520_820_530_830@yahoogroups.com, "Harlan" <hbloom@...> wrote:
>
> I inherited the '820, and has performed rather good. Now, when I turn it on, it sometimes goes into a scan mode, and it does change the freq's when it does it.
> Sometimes it only scans a few MC, and then maybe will scan a longer amount. I used to just shut it down, and restart, and it was OK. Now the numbers on the readout, make no sense at all and not all of them are displayed. They do react with the VFO tuner, but not correctly.
> KJ4GXN
>
There are issues with the counter either as an add-on to the 820 or factory on the S model. On my 820S I occasionaly have to remove the plugs for the display and clean the contacts and reinstall the plug (sometimes its just work the plug a few times) and everything works fine. I believe there is actualy a service bullitin on the issue from Kenwood.

21018. Re: [TS-520_820_530_830] AT-230

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-21 19:29:01 UTC
From: Dave wej
Topic: 6938 Message: 21018

I added a regular 14v lamp with pigtails, and wired into the 12v ac line
going to the vfo. lights everytime the radio is on

maybe that can be done on yours

----- Original Message -----
From: "danielkohler61" <dnkohler@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, April 21, 2009 12:14 PM
Subject: [TS-520_820_530_830] AT-230

> The AT-230 is not equipped with a lighted meter. For us old guys that can
> be a problem under low light conditions. A simple question, but has anyone
> been able to find a simple wasy to light this meter?
>
> Dan
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

21019. Re: [TS-520_820_530_830] Re: TS820 readout

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-21 20:16:17 UTC
From: Harlan
Topic: 21000 Message: 21019

OK-Thanks Mike. I have some cleaner/lubricant spray, and will do the contacts and check the screws to see if all are "tight". Where would I find the service bulletin? I did download the service and operators manuals from online.

----- Original Message -----
From: Mike
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, April 21, 2009 3:01 PM
Subject: [TS-520_820_530_830] Re: TS820 readout

--- In TS-520_820_530_830@yahoogroups.com, "Harlan" <hbloom@...> wrote:
>
> I inherited the '820, and has performed rather good. Now, when I turn it on, it sometimes goes into a scan mode, and it does change the freq's when it does it.
> Sometimes it only scans a few MC, and then maybe will scan a longer amount. I used to just shut it down, and restart, and it was OK. Now the numbers on the readout, make no sense at all and not all of them are displayed. They do react with the VFO tuner, but not correctly.
> KJ4GXN
>
There are issues with the counter either as an add-on to the 820 or factory on the S model. On my 820S I occasionaly have to remove the plugs for the display and clean the contacts and reinstall the plug (sometimes its just work the plug a few times) and everything works fine. I believe there is actualy a service bullitin on the issue from Kenwood.

[Non-text portions of this message have been removed]

21020. Re: TS820 readout

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-21 20:42:43 UTC
From: Mike
Topic: 21000 Message: 21020

http://www.n6wk.com/kenwood/TS-820S-ServiceBulletins.pdf This is the site where I found service bullitins. N6WK has alot of good information on the site. The main Kenwood page is www.n6wk.com/kenwood/

21021. Re: TS 830S "Fix" button

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-21 20:32:55 UTC
From: k2pjw
Topic: 21013 Message: 21021

--- In TS-520_820_530_830@yahoogroups.com, "k2pjw" <k2pjw@...> wrote:
>
> Hi,
> Just curious about something. There are no extra crystals in my radio. Is the display supposed to have any frequency on it when the "fix" button is pushed? When I first got my ts 830s it did not. After doing work on the PLL board it reads 6.500 when I push in the "Fix" button. Did I inadvertently repair something that should have been there to begin with or should the display indeed display NO frequency unless there is a crystal onboard? Thank You.
>

After more playing around, when pushing in the "Fix" button the frequency changes depending upon which band I am on. For example; on 80M it reads 3.000, 40M reads 6.500, so on and so forth. When the bandswitch is in the "Aux" position and the "Fix" button is pushed in the frequency reads .500. Just wondering if this is all normal? As I posted earlier the radio's display would not display anything before I "diddle-fritzed" with the PLL board.

21022. Re: TX Audio Super Distorted

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-22 01:16:49 UTC
From: Christopher Maness
Topic: 20941 Message: 21022

Ok, I did some more testing to try to nail down the distorted TX issue. The MIC gain pot and all connections are fine (checked with a DVM). However, I used headphones on my monitoring receiver, and I noticed at real low settings (no ALC deflection) I did not have much distortion. If raise the mic gain to about 7 or 8 and speek loudly the ALC would begin to pump (but not excessively) and the TX would get really distorted. If I turned the MIC gain down really fast the distortion would remain for about 5 seconds and slowly fade back to normal. This was with out the speech processor on. It was acting like a compressor with a really long recovery time. That didn't seem normal. Maybe a RC circuit gone out of whack some where.

OK, as far as the CARRIER pot. This seemed a little strange, but I don't have a working rig to compare it to. Even though it is a 10k pot, I only measured 75 Ohms across the left and right leads. If I measure between ground and the center lead I get:

1 = 0 Ohms
2 = 1k
3.5 = 2k
5= 2k
6=2k
7=1k
10=75 Ohms

I was expecting 10k not 75 Ohms across the L/R leads, but I guess that could be other components in the circuit causing this. Again, I don't have a working radio to compare its behavior to.

Thanks,
Chris KQ6UP

21023. Re: Fixed CH Crystal - because its THERE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-22 02:34:51 UTC
From: blacklabpupp
Topic: 21006 Message: 21023

Gordon
Can you post a copy of the schematics of how you wired the filters in or send me a copy? I will go over the schematics I have and see if I can switch out the 2.1 to 2.8 SSb filter. I have the 500 hz CW filter that works great. I could not be more pleased. But on SSb I have changed out the SSb filters twice and depending on the conditions. I hate to mod the radio but, I might consider a swith on the back to switch out SSb filters, or use CH 3 and 4.
Gene

21024. Re: [TS-520_820_530_830] TS820 readout

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-22 14:50:20 UTC
From: Dave and Loraine
Topic: 21000 Message: 21024

A common problem if the rig has not been used for a while.
If the tuned frequency jumps when the display jumps, it's the VFO variable cap ground wiper.
Open the hatch on the VFO can and lightly apply Deoxit to the wiper then spin the dial a few
times.
Repeat until stable. Don't overdo the Deoxit.
See Gordon's excellent photo's for guidance.
73 Dave f4eyk

21025. Re: Fixed CH Crystal - because its THERE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-22 19:06:22 UTC
From: w5rkl
Topic: 21006 Message: 21025

--- In TS-520_820_530_830@yahoogroups.com, "Greg Fox" <dive614C@...> wrote:
> Could some of you suggest a list of some good, neat, useful or just marginally interesting crystal freq to final frequencies that could put these sockets to use? I live in the southeast if that matters and would be interested in your suggestions. That would be way better than just me picking some random freq's to waste money on.

Hello Greg,

I recommend you listen on all bands, within the frequency allocation based on "your" class of license, at various times of day. This will give you an idea of what topics of discussion and any nets you may be interested in becoming involved with. We can't tell you what's best for "you", only you can determine that. Listen around on various bands to get a feel of what's out there.

Good luck with the exam.

73
Mike
W5RKL

21026. Re: Fixed CH Crystal - because its THERE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-22 19:13:58 UTC
From: w5rkl
Topic: 21006 Message: 21026

One more thing Greg.

At this point, I do not recommend you spend money on crystals for the FIX CH options. It would be a huge waste of money. I recommend waiting and "if" you join a net or group that is always on a certain frequency and you join that group, then it would be logical to order a crystal. Although FIX CH crystal control sounds "neat" or "cool", it does have it's limitations and you should be aware of those limitation before spending money on crystals.

Of course, it's up to you whether or not you spend money on crystals but I don't recommend it at this stage.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Greg Fox" <dive614C@> wrote:
> > Could some of you suggest a list of some good, neat, useful or just marginally interesting crystal freq to final frequencies that could put these sockets to use? I live in the southeast if that matters and would be interested in your suggestions. That would be way better than just me picking some random freq's to waste money on.
>
>
>
> Hello Greg,
>
> I recommend you listen on all bands, within the frequency allocation based on "your" class of license, at various times of day. This will give you an idea of what topics of discussion and any nets you may be interested in becoming involved with. We can't tell you what's best for "you", only you can determine that. Listen around on various bands to get a feel of what's out there.
>
> Good luck with the exam.
>
>
> 73
> Mike
> W5RKL
>

21027. RE: [TS-520_820_530_830] Re: Fixed CH Crystal - because its THERE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-22 19:51:54 UTC
From: greg fox
Topic: 21006 Message: 21027

That sounds like pretty good advice Mike, Thanks!

To: TS-520_820_530_830@yahoogroups.com
From: w5rkl@...
Date: Wed, 22 Apr 2009 19:13:58 +0000
Subject: [TS-520_820_530_830] Re: Fixed CH Crystal - because its THERE

One more thing Greg.

At this point, I do not recommend you spend money on crystals for the FIX CH options. It would be a huge waste of money. I recommend waiting and "if" you join a net or group that is always on a certain frequency and you join that group, then it would be logical to order a crystal. Although FIX CH crystal control sounds "neat" or "cool", it does have it's limitations and you should be aware of those limitation before spending money on crystals.

Of course, it's up to you whether or not you spend money on crystals but I don't recommend it at this stage.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Greg Fox" <dive614C@> wrote:
> > Could some of you suggest a list of some good, neat, useful or just marginally interesting crystal freq to final frequencies that could put these sockets to use? I live in the southeast if that matters and would be interested in your suggestions. That would be way better than just me picking some random freq's to waste money on.
> >
> >
> >
> Hello Greg,
>
> I recommend you listen on all bands, within the frequency allocation based on "your" class of license, at various times of day. This will give you an idea of what topics of discussion and any nets you may be interested in becoming involved with. We can't tell you what's best for "you", only you can determine that. Listen around on various bands to get a feel of what's out there.
>
> Good luck with the exam.
>
>
> 73
> Mike
> W5RKL

>

_____
Windows Live? Hotmail?:?more than just e-mail.
http://windowslive.com/online/hotmail?ocid=TXT_TAGLM_WL_HM_more_042009

[Non-text portions of this message have been removed]

21028. Re: [TS-520_820_530_830] Re: Fixed CH Crystal - because its THERE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-22 20:25:47 UTC
From: Dave wej
Topic: 21006 Message: 21028

also, be aware, that some nets alter their frequency, +/- qrm so being
LOCKED could be a hassle for you.....

Dave Garber
VE3WEJ/VE3IE

----- Original Message -----
From: "greg fox" <dive614C@...>
To: <ts-520_820_530_830@yahoogroups.com>
Sent: Wednesday, April 22, 2009 3:51 PM
Subject: RE: [TS-520_820_530_830] Re: Fixed CH Crystal - because its THERE

That sounds like pretty good advice Mike, Thanks!

To: TS-520_820_530_830@yahoogroups.com
From: w5rkl@...
Date: Wed, 22 Apr 2009 19:13:58 +0000
Subject: [TS-520_820_530_830] Re: Fixed CH Crystal - because its THERE

One more thing Greg.

At this point, I do not recommend you spend money on crystals for the FIX CH
options. It would be a huge waste of money. I recommend waiting and "if" you
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group, then it would be logical to order a crystal. Although FIX CH crystal
control sounds "neat" or "cool", it does have it's limitations and you
should be aware of those limitation before spending money on crystals.

Of course, it's up to you whether or not you spend money on crystals but I
don't recommend it at this stage.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Greg Fox" <dive614C@> wrote:
> > Could some of you suggest a list of some good, neat, useful or just
> > marginally interesting crystal freq to final frequencies that could put
> > these sockets to use? I live in the southeast if that matters and would
> > be interested in your suggestions. That would be way better than just me
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>
>
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> Hello Greg,

>
> I recommend you listen on all bands, within the frequency allocation based
> on "your" class of license, at various times of day. This will give you an
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> becoming involved with. We can't tell you what's best for "you", only you
> can determine that. Listen around on various bands to get a feel of what's
> out there.
>
> Good luck with the exam.
>
>
> 73
> Mike
> W5RKL
>

_____
Windows LiveT Hotmail?:.more than just e-mail.
http://windowslive.com/online/hotmail?ocid=TXT_TAGLM_WL_HM_more_042009

[Non-text portions of this message have been removed]

Yahoo! Groups Links

21029. Re: TS820 readout

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-22 05:17:42 UTC
From: trippkj4bkd
Topic: 21000 Message: 21029

--- In TS-520_820_530_830@yahoogroups.com, "Harlan" <hbloom@...> wrote:
>
> I inherited the '820, and has performed rather good. Now, when I turn it on, it sometimes goes into a scan mode, and it does change the freq's when it does it.
> Sometimes it only scans a few MC, and then maybe will scan a longer amount. I used to just shut it down, and restart, and it was OK. Now the numbers on the readout, make no sense at all and not all of them are displayed. They do react with the VFO tuner, but not correctly.
> KJ4GXN
>

Hello, Harlan.

I also have the 820 and have the same problem sometimes. The 10 meter band is the worst. The display hardley ever works correctly but all the other bands are displaying normally for now. I retightend screws on boards and checked for loose wire harness connections but could find no obvious reasons. Good luck please post any thing that has helped.

73
KJ4BKD

21030. AT-200 Redeux

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-23 01:43:50 UTC
From: Tate Antrim
Topic: 21030 Message: 21030

I've been trying to run down the parts list for this tuner but can't find a "service" manual for it. Does anyone know what the diodes are that kenwood used part number in particular?

KD8HJA

[Non-text portions of this message have been removed]

21031. TS-830S Power Transformer Secondary Winding No-Load Voltages?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-23 02:12:18 UTC
From: oldamateuradioman
Topic: 21031 Message: 21031

This one of those moments that something I should know from experience just escapes me. I'm finding that getting older has it's disadvantages sometimes.

My question is in regards to the "no-load" secondary winding voltages on the power transformer of my TS-830S transceiver.

From studying the schematic, it is LABELED that it has a 800/400/0 winding and a 300/210/100/0 winding for the high/medium voltage supplies to the rectifier board.

QUESTION: With these wires completely disconnected from the rectifier board, what "actual" voltages should I expect to see when measuring each winding tap with a suitable voltmeter?

In some quick voltage checks with my Fluke DMM (and with a Simpson 260) I not reading anywhere close to the voltages indicated on the schematic drawing LABELS.

At each winding tap, no-load voltages aren't even half of what's indicated on the schematic and rectifier board markings.

Perhaps these schematic & rectifier board LABEL MARKINGS are not intended to indicate actual no-load secondary voltages but are just reference points for proper wire connections?

Here's hoping some of you will be willing to end my confusion with some advice. It's most likely a simple concept, but for now, it doesn't make much sense.

Tnx & 73, Bill, w0ng

21032. TS-520S Carrier Crystal X1

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-23 02:30:58 UTC
From: Christopher Maness
Topic: 21032 Message: 21032

Where can I order one of these?

Chris KQ6UP

21033. 520S and Shure 550L

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-23 02:40:00 UTC
From: KEVIN
Topic: 21033 Message: 21033

hi Group,

i have recenyly come across a couple of Shure 550L Dexk mics and was wondering if anyone has had any expierence with that model on a 520S

Also i Cannot seem to figure out the wiring for it, i have been to the Shure Website and have the Pin diagram and also the pinout for the Transceiver but it is a bit shady can anyone help me out with a wiring diagram or some instructions please

Thanks Heaps

21034. Re: [TS-520_820_530_830] AT-200 Redeux

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-23 05:04:42 UTC
From: Dennis Windle
Topic: 21030 Message: 21034

On my AT200 Schematic it shows D1 & D2 as being a 2-1K261 that crosses to a NTE 110MP.

D.Windle
----- Original Message -----
From: Tate Antrim
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, April 22, 2009 9:43 PM
Subject: [TS-520_820_530_830] AT-200 Redeux

I've been trying to run down the parts list for this tuner but can't find a
"service" manual for it. Does anyone know what the diodes are that kenwood
used part number in particular?

KD8HJA

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

21035. TS-520S IF Question?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-23 16:21:11 UTC
From: Chris Maness
Topic: 21035 Message: 21035

Since the first IF is a higher frequency than the received frequency, does that invert USB to LSB and visa versa? So when you are listening to a USB signal you are actual listing to the lower sideband in the detector?

Thanks,
Chris KQ6UP

21036. Re: [TS-520_820_530_830] TS-520S IF Question?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-23 15:55:44 UTC
From: richard
Topic: 21035 Message: 21036

On Thu, 23 Apr 2009 09:21:11 -0700
Chris Maness <chris@...> wrote:

> Since the first IF is a higher frequency than the received frequency,
> does that invert USB to LSB and visa versa? So when you are listening
> to a USB signal you are actual listing to the lower sideband in the
> detector?
>
> Thanks,
> Chris KQ6UP

Not necessarily Chris.
side band inversion takes place when the mix product is the difference
between LO and signal.
the easiest illustration is think of a 5 MHz VFO and a 9 MHz IF
20mtrs USB and 80mtrs LSB. As long as you carrier xstal is at 8.9985 MHz

--
Best wishes

Richard Bown

##
Registered Linux User 36561
OS: Mandriva 2009 powerpack on AMD Dual Athlon 64 +4400: 8 GB RAM DDR2
Ham Call: G8JVM , QRA IO82SP, Interests Microwave
##

21037. Re: [TS-520_820_530_830] TS-520S IF Question?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-23 17:18:54 UTC
From: Chris Maness
Topic: 21035 Message: 21037

>> Since the first IF is a higher frequency than the received frequency,
>> does that invert USB to LSB and visa versa? So when you are listening
>> to a USB signal you are actual listing to the lower sideband in the
>> detector?
>>
>> Thanks,
>> Chris KQ6UP

Is this the case with the TS-520S? I am looking at the CARRIER board theory of operation in the manual, and it states that it shifts the CARRIER _up_ in the passband of the Xtal filter when in USB mode. That would seem to indicate that the LSB would be "visible" in "window" of the xtal filter if the carrier was at the top of the passband. Am I correct?

Chris KQ6UP

21038. Re: [TS-520_820_530_830] Re: TS820 readout

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-23 04:14:33 UTC
From: BILL KELLEY
Topic: 21000 Message: 21038

Hi,

Had an issue with an 820s display that was not stable. Cured the problem by re-flowing all the feed thru connections on the two boards in the counter assy. module. There are a number feed thru's on the boards, but not a difficult job.
I wicked each one of the feed thru connections, and then re-flowed them.
Worked for me!

Bill AB4KH

From: trippkj4bkd <thomasenglish3@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, April 22, 2009 1:17:42 AM
Subject: [TS-520_820_530_830] Re: TS820 readout

--- In TS-520_820_530_ 830@yahoogroups. com, "Harlan" <hbloom@...> wrote:
>
> I inherited the '820, and has performed rather good. Now, when I turn it on, it sometimes goes into a scan mode, and it does change the freq's when it does it.
> Sometimes it only scans a few MC, and then maybe will scan a longer amount. I used to just shut it down, and restart, and it was OK. Now the numbers on the readout, make no sense at all and not all of them are displayed. They do react with the VFO tuner, but not correctly.
> KJ4GXN
>

Hello, Harlan.

I also have the 820 and have the same problem sometimes. The 10 meter band is the worst. The display hardley ever works correctly but all the other bands are displaying normally for now. I retightend screws on boards and checked for loose wire harness connections but could find no obvious reasons. Good luck please post any thing that has helped.

73
KJ4BKD

[Non-text portions of this message have been removed]

21039. Re: AT-200 Redeux

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-23 20:25:11 UTC
From: james27613
Topic: 21030 Message: 21039

hi,

the operating manual has the schematic

http://www.n6wk.com/kenwood/AT-200_Manual.pdf

73 james ke4dɪn

21040. Re: [TS-520_820_530_830] Re: TS820 readout

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-23 23:34:59 UTC
From: Jeramy Ross
Topic: 21000 Message: 21040

In addition to re-flowing the solder on all of the feed-thru connections, I have found that some have TC-1 on the IF board adjusted to a point where the counter is not getting a strong enough signal. I could have sworn that there was a bulletin put out by Kenwood saying that the level to shoot for (0.1V) listed in the service manual when adjusting TC-1 on the IF board was in error, but I can't for the life of me find that anywhere in my documents.

Best,
Jeramy / W5XTL

On Wed, Apr 22, 2009 at 11:14 PM, BILL KELLEY <paver12321@...> wrote:

> Hi,
>
> Had an issue with an 820s display that was not stable. Cured the problem by
> re-flowing all the feed thru connections on the two boards in the counter
> assy. module. There are a number feed thru's on the boards, but not a
> difficult job.
> I wicked each one of the feed thru connections, and then re-flowed them.
> Worked for me!
>
> Bill AB4KH
>
>
>
>
> _____
> From: trippkj4bkd <thomasenglish3@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, April 22, 2009 1:17:42 AM
> Subject: [TS-520_820_530_830] Re: TS820 readout
>
>
>
>
>
> --- In TS-520_820_530_ 830@yahoogroups. com, "Harlan" <hbloom@...> wrote:
> >
> > I inherited the '820, and has performed rather good. Now, when I turn it
> on, it sometimes goes into a scan mode, and it does change the freq's when
> it does it.
> > Sometimes it only scans a few MC, and then maybe will scan a longer
> amount. I used to just shut it down, and restart, and it was OK. Now the
> numbers on the readout, make no sense at all and not all of them are
> displayed. They do react with the VFO tuner, but not correctly.
> > KJ4GXN

> >
>
> Hello, Harlan.
>
> I also have the 820 and have the same problem sometimes. The 10 meter band
> is the worst. The display hardley ever works correctly but all the other
> bands are displaying normally for now. I retightend screws on boards and
> checked for loose wire harness connections but could find no obvious
> reasons. Good luck please post any thing that has helped.
>
> 73
> KJ4BKD
>
>
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>
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>
>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

21041. correct connections for a TS-830S to Ameritron AL-811H

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-23 23:09:22 UTC
From: rarnold357@bellsouth.net
Topic: 21041 Message: 21041

Recently acquired a very good condition TS-830S, I have an Ameritron Al-811H amplifier that i would like to connect th3 830S to. Does anyone have this combination,or if anyone could set me straight with the proper connections/setup.

Thanks
Bob

21042. RE: [TS-520_820_530_830] Re: AT-200 Redeux

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-24 03:03:04 UTC
From: Tate Antrim
Topic: 21030 Message: 21042

I doubt there is a bigger idiot than myself.alas.I have an original AT-200 manual and spent who knows how much time looking at the schematic and there in solid black and white is the info about the diodes I was looking for.

I'll slink away and not bother to come back for at least a fortnight.

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of james27613
Sent: Thursday, April 23, 2009 4:25 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: AT-200 Redeux

hi,

the operating manual has the schematic

http://www.n6wk.com/kenwood/AT-200_Manual.pdf

73 james ke4drn

[Non-text portions of this message have been removed]

21043. TS-820 Final 470 uH choke coil toasted

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-24 03:28:55 UTC
From: chris_yipyap_com
Topic: 21043 Message: 21043

Hi group.

With your persistent help I have my TS-820 actually putting out a signal these days.

But today it started smoking and the power level went down. So I opened it up yet again and looked things over. The choke coil in the final section is toasted. I believe it is the one marked L4 in the big schematic. It goes between a 10k 1 watt resistor and a ground point near the relay and it consists of two windings on a form about 1/4 inch in diameter.

I see from past posts in this group that I can probably find another one. But before I do that I wonder if this is a symptom of something else that needs fixed?
Chris
w0ep

21044. Re: correct connections for a TS-830S to Ameritron AL-811H

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-24 12:01:01 UTC
From: w5rkl
Topic: 21041 Message: 21044

Bob,

The 830 and 811H manuals both provide the necessary information to make the connections you are considering.

If you do not have the 830 opoerators' manual you can download it free at the following website:

http://www.kenwoodusa.com/Support/AMA_Radios/#_

If you do not have the AL-811H manual you can download it, also free, at the following website:

http://www.ameritron.com/Product.php?productid=AL-811H

Page 5 in the 811H manual shows, with a drawing, how the ALC and 811H internal T/R relay connections to the transmitter/transceiver are made.

Page 13 and 25 in the 830 manual discusses/shows, with the remote din plug pin assignments and a connection picture, the 7 pin din socket connections for ALC and the "Normally Open" amplifier relay connections. The ALC ground return is the din plug's outer metal shield.

Use shielded cable in both relay and ALC connections between the amplifier and the transceiver. Simple stereo interconnecting cables are quite acceptable to make those connections. You will have to wire the cables to a 7 pin din plug in order to make the connections, T/R relay and ALC, to the TS-830S. Once this is done, label each cable's purpose/use, "Relay" and "ALC".

There is no need for an external amplifier relay control circuit/box between the 830 and the AL-811H. The 830's internal relay contacts are more than capable of handling the AL-811H's low DC (12VDC) relay control voltage.

I recommend reading and fully understanding the connectin, operating, and tuning information provided in both manuals before attempting to connect and operate any linear amplifier with your TS-830. If you have never used a linear amplifier before then might I suggest you enlist the help of a local ham who has experience tuning and operating an amplifier with a transceiver, to help you.

Failure to follow the information provided in both manuals can result in damage to and/or improper operation of both pieces of equipment.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "rarnold357@..." <RARNOLD357@...> wrote:
>
> Recently acquired a very good condition TS-830S, I have an Ameritron Al-811H amplifier

that i would like to connect th3 830S to. Does anyone have this combination,or if anyone could set me straight with the proper connections/setup.
>
> Thanks
> Bob
>

21045. SM-220 for Sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-24 17:52:44 UTC
From: Stephen Crain
Topic: 21045 Message: 21045

I have a Kenwood SM-220 with the pan adapter, copy of the manual for sale in excellent condition. Strong trace, no burns. Asking $275 OBO plus shipping. Please email for pics or questions

[Non-text portions of this message have been removed]

21046. Re: [TS-520_820_530_830] SM-220 for Sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-24 18:31:08 UTC
From: Howard Weinstein
Topic: 21045 Message: 21046

Stephen,

Do you have the panadapter for the TS-520 or the 820? I have a TS-520S.

Tnx es 73

Howard K3HW

From: Stephen Crain <stefenrcrain@...>
Subject: [TS-520_820_530_830] SM-220 for Sale
To: TS-520_820_530_830@yahoogroups.com
Date: Friday, April 24, 2009, 1:52 PM

I have a Kenwood SM-220 with the pan adapter, copy of the manual for sale in excellent condition. Strong trace, no burns. Asking $275 OBO plus shipping. Please email for pics or questions

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

21047. Re: TS-820 Final 470 uH choke coil toasted

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-24 15:07:03 UTC
From: chris_yipyap_com
Topic: 21043 Message: 21047

Replying to myself...

It seems to me if this choke toasted it is because I've got some
DC on my antenna line. The blocking capacitor is supposed to keep that from happening. So I probably have a leaky blocking capacitor.

It does look a little bit off color. The schematic says it is .001 at 3KV. I will see if I can come up with one of those.

What do you all think about this 470 uH choke? Is that a precise value or will something larger/smaller do? I will have to research a bit to see if I can find one. I do have something similar but it looks like a higher value. I could wind one on some toroids that I have on hand.

Chris

--- In TS-520_820_530_830@yahoogroups.com, "chris_yipyap_com" <chris@...> wrote:
>
>
> Hi group.
>
> With your persistent help I have my TS-820 actually putting out a signal these days.
>
> But today it started smoking and the power level went down. So I opened it up yet again and looked things over. The choke coil in the final section is toasted. I believe it is the one marked L4 in the big schematic. It goes between a 10k 1 watt resistor and a ground point near the relay and it consists of two windings on a form about 1/4 inch in diameter.
>
> I see from past posts in this group that I can probably find another one. But before I do that I wonder if this is a symptom of something else that needs fixed?
> Chris
> w0ep
>

21048. Kenwood Pin Diode source

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-24 18:34:27 UTC
From: Gordon
Topic: 21048 Message: 21048

I am looking for a source or a cross reference number for the Kenwood BA379 Pin Diodes. I have found that BA379 is superseded by BA479, but it doesn't appear anyone stocks them. I tried to find a NTE cross, but no luck. The closest I found was he NTE-555A.
Anyone have a viable source or Cross?

Thanks,
Gordon

21049. WTB: SM-220 and/or BS-5

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-24 19:54:28 UTC
From: Howard Weinstein
Topic: 21049 Message: 21049

Gang,

I want to procure an SM-220 with a BS-5 Panadapter or...

an SM-220 and/or BS-5 as seperate unit(s).

Please respond off list.

Tnx es 72/73 de Howard K3HW

[Non-text portions of this message have been removed]

21050. Re: [TS-520_820_530_830] SM-220 for Sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-24 19:58:18 UTC
From: Dennis Windle
Topic: 21045 Message: 21050

BS5 or BS8 Pan Adapter ??

Thanks
----- Original Message -----
From: Stephen Crain
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, April 24, 2009 1:52 PM
Subject: [TS-520_820_530_830] SM-220 for Sale

I have a Kenwood SM-220 with the pan adapter, copy of the manual for sale in excellent condition. Strong trace, no burns. Asking $275 OBO plus shipping. Please email for pics or questions

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

21051. BA379 Pin Diode replacement

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-24 16:54:35 UTC
From: Gordon
Topic: 21051 Message: 21051

Anyone have a good replacement part number for the The Kewood PIN Diodes BA379? I have found that the part BA379 is replaced by BA479 but
Seems NTE doesn't have a cross and I can't seem to find a place that stocks them.

Thanks,
Gordon

21052. Re: [TS-520_820_530_830] Kenwood Pin Diode source

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-24 20:20:35 UTC
From: Dave wej
Topic: 21048 Message: 21052

kenwood says ba379 alternative is " 1sv80" which is used in a yeasu ft726r.
so maybe yaesu has replcements???

Dave Garber
VE3WEJ/VE3IE

----- Original Message -----
From: "Gordon" <n6wk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, April 24, 2009 2:34 PM
Subject: [TS-520_820_530_830] Kenwood Pin Diode source

>I am looking for a source or a cross reference number for the Kenwood BA379
>Pin Diodes. I have found that BA379 is superseded by BA479, but it doesn't
>appear anyone stocks them. I tried to find a NTE cross, but no luck. The
>closest I found was he NTE-555A.
> Anyone have a viable source or Cross?
>
> Thanks,
> Gordon
>
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> Yahoo! Groups Links
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21053. Re: [TS-520_820_530_830] Kenwood Pin Diode source

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-24 20:48:56 UTC
From: Troy Wideman
Topic: 21048 Message: 21053

Here is a place that shows the 1sv80;
http://www.partstore.com/Part/Kenwood/Kenwood/BA379.aspx
Never dealt with them, so no idea about their service.

Troy, W6HV

From: "Dave wej" <ve3wej@...>
Sent: Friday, April 24, 2009 1:20 PM
To: <TS-520_820_530_830@yahoogroups.com>
Subject: Re: [TS-520_820_530_830] Kenwood Pin Diode source

kenwood says ba379 alternative is " 1sv80" which is used in a yeasu ft726r.
so maybe yaesu has replcements???

Dave Garber
VE3WEJ/VE3IE

----- Original Message -----
From: "Gordon" <n6wk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, April 24, 2009 2:34 PM
Subject: [TS-520_820_530_830] Kenwood Pin Diode source

>I am looking for a source or a cross reference number for the Kenwood BA379
>Pin Diodes. I have found that BA379 is superseded by BA479, but it doesn't
>appear anyone stocks them. I tried to find a NTE cross, but no luck. The
>closest I found was he NTE-555A.
> Anyone have a viable source or Cross?
>
> Thanks,
> Gordon
>
>
>
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> Yahoo! Groups Links
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Yahoo! Groups Links

21054. Re: [TS-520_820_530_830] BA379 Pin Diode replacement

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-24 20:10:41 UTC
From: Jim Atkins
Topic: 21051 Message: 21054

Have you tried searching for BA479 at Mouser.com? I get hits there.

Jim W4UX
----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, April 24, 2009 12:54 PM
Subject: [TS-520_820_530_830] BA379 Pin Diode replacement

Anyone have a good replacement part number for the The Kewood PIN Diodes BA379? I have found that the part BA379 is replaced by BA479 but
Seems NTE doesn't have a cross and I can't seem to find a place that stocks them.

Thanks,
Gordon

[Non-text portions of this message have been removed]

21055. Re: Kenwood Pin Diode source

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-24 20:56:11 UTC
From: Gordon
Topic: 21048 Message: 21055

Thanks Dave,
I'll check that out.

73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "Dave wej" <ve3wej@...> wrote:
>
> kenwood says ba379 alternative is " 1sv80" which is used in a yeasu ft726r.
> so maybe yaesu has replcements???
>
>
> Dave Garber
> VE3WEJ/VE3IE
>
>
> ----- Original Message -----
> From: "Gordon" <n6wk@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Friday, April 24, 2009 2:34 PM
> Subject: [TS-520_820_530_830] Kenwood Pin Diode source
>
>
> >I am looking for a source or a cross reference number for the Kenwood BA379
> >Pin Diodes. I have found that BA379 is superseded by BA479, but it doesn't
> >appear anyone stocks them. I tried to find a NTE cross, but no luck. The
> >closest I found was he NTE-555A.
> > Anyone have a viable source or Cross?
> >
> > Thanks,
> > Gordon
> >
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> > Yahoo! Groups Links
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21056. Re: Kenwood Pin Diode source

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-24 20:57:14 UTC
From: Gordon
Topic: 21048 Message: 21056

Thanks Troy,
but at the top of that page it states " This Part is NO longer Available"

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Troy Wideman" <w6hv@...> wrote:
>
> Here is a place that shows the 1sv80;
> http://www.partstore.com/Part/Kenwood/Kenwood/BA379.aspx
> Never dealt with them, so no idea about their service.
>
> Troy, W6HV
>
> ----------
> From: "Dave wej" <ve3wej@...>
> Sent: Friday, April 24, 2009 1:20 PM
> To: <TS-520_820_530_830@yahoogroups.com>
> Subject: Re: [TS-520_820_530_830] Kenwood Pin Diode source
>
> kenwood says ba379 alternative is " 1sv80" which is used in a yeasu ft726r.
> so maybe yaesu has replcements???
>
>
> Dave Garber
> VE3WEJ/VE3IE
>
>
> ----- Original Message -----
> From: "Gordon" <n6wk@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Friday, April 24, 2009 2:34 PM
> Subject: [TS-520_820_530_830] Kenwood Pin Diode source
>
>
> >I am looking for a source or a cross reference number for the Kenwood BA379
> >Pin Diodes. I have found that BA379 is superseded by BA479, but it doesn't
> >appear anyone stocks them. I tried to find a NTE cross, but no luck. The
> >closest I found was he NTE-555A.
> > Anyone have a viable source or Cross?
> >
> > Thanks,
> > Gordon
> >
> >

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> > Yahoo! Groups Links
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21057. Re: BA379 Pin Diode replacement

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-24 20:57:55 UTC
From: Gordon
Topic: 21051 Message: 21057

Thanks Jim,
Yes and it says a 6 to 8 week wait time

73,
Gordon
n6wk

--- In TS-520_820_530_830@yahoogroups.com, "Jim Atkins" <jtatkins@...> wrote:
>
> Have you tried searching for BA479 at Mouser.com? I get hits there.
>
> Jim W4UX
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, April 24, 2009 12:54 PM
> Subject: [TS-520_820_530_830] BA379 Pin Diode replacement
>
>
>
>
>
> Anyone have a good replacement part number for the The Kewood PIN Diodes BA379? I have found that the part BA379 is replaced by BA479 but
> Seems NTE doesn't have a cross and I can't seem to find a place that stocks them.
>
> Thanks,
> Gordon
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

21058. Re: [TS-520_820_530_830] Re: Kenwood Pin Diode source

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-24 21:01:41 UTC
From: Troy Wideman
Topic: 21048 Message: 21058

Gordon,
They are referring to the BA379. Check at the bottom of the page.

73,
Troy

From: "Gordon" <n6wk@...>
Sent: Friday, April 24, 2009 1:57 PM
To: <TS-520_820_530_830@yahoogroups.com>
Subject: [TS-520_820_530_830] Re: Kenwood Pin Diode source

Thanks Troy,
but at the top of that page it states " This Part is NO longer
Available"

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Troy Wideman" <w6hv@...> wrote:
>
> Here is a place that shows the 1sv80;
> http://www.partstore.com/Part/Kenwood/Kenwood/BA379.aspx
> Never dealt with them, so no idea about their service.
>
> Troy, W6HV
>
> ---
> From: "Dave wej" <ve3wej@...>
> Sent: Friday, April 24, 2009 1:20 PM
> To: <TS-520_820_530_830@yahoogroups.com>
> Subject: Re: [TS-520_820_530_830] Kenwood Pin Diode source
>
> kenwood says ba379 alternative is " 1sv80" which is used in a yeasu
> ft726r.
> so maybe yaesu has replcements???
>
>
> Dave Garber
> VE3WEJ/VE3IE
>
>
> ----- Original Message -----
> From: "Gordon" <n6wk@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Friday, April 24, 2009 2:34 PM

> Subject: [TS-520_820_530_830] Kenwood Pin Diode source
>
>
> >I am looking for a source or a cross reference number for the Kenwood
> >BA379
> >Pin Diodes. I have found that BA379 is superseded by BA479, but it
> >doesn't
> >appear anyone stocks them. I tried to find a NTE cross, but no luck. The
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> > Anyone have a viable source or Cross?
> >
> > Thanks,
> > Gordon
> >
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> > Yahoo! Groups Links
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Yahoo! Groups Links

21059. Re: Kenwood Pin Diode source

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-24 21:07:27 UTC
From: Gordon
Topic: 21048 Message: 21059

You are right Troy,
I missed that. Sorry!
I found some here that might work but if not, I'll order a few from the partstore.
Thanks .

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Troy Wideman" <w6hv@...> wrote:
>
> Gordon,
> They are referring to the BA379. Check at the bottom of the page.
>
> 73,
> Troy
>
> ----------
> From: "Gordon" <n6wk@...>
> Sent: Friday, April 24, 2009 1:57 PM
> To: <TS-520_820_530_830@yahoogroups.com>
> Subject: [TS-520_820_530_830] Re: Kenwood Pin Diode source
>
> Thanks Troy,
> but at the top of that page it states " This Part is NO longer
> Available"
>
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Troy Wideman" <w6hv@> wrote:
> >
> > Here is a place that shows the 1sv80;
> > http://www.partstore.com/Part/Kenwood/Kenwood/BA379.aspx
> > Never dealt with them, so no idea about their service.
> >
> > Troy, W6HV
> >
> > ----------
> > From: "Dave wej" <ve3wej@>
> > Sent: Friday, April 24, 2009 1:20 PM
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Subject: Re: [TS-520_820_530_830] Kenwood Pin Diode source
> >
> > kenwood says ba379 alternative is " 1sv80" which is used in a yeasu
> > ft726r.

> > so maybe yaesu has replcements???
> >
> >
> > Dave Garber
> > VE3WEJ/VE3IE
> >
> >
> > ----- Original Message -----
> > From: "Gordon" <n6wk@>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Friday, April 24, 2009 2:34 PM
> > Subject: [TS-520_820_530_830] Kenwood Pin Diode source
> >
> >
> > >I am looking for a source or a cross reference number for the Kenwood
> > >BA379
> > >Pin Diodes. I have found that BA379 is superseded by BA479, but it
> > >doesn't
> > >appear anyone stocks them. I tried to find a NTE cross, but no luck. The
> > >closest I found was he NTE-555A.
> > > Anyone have a viable source or Cross?
> > >
> > > Thanks,
> > > Gordon
> > >
> > >
> > >
> > > ------------------------------------
> > >
> > > Yahoo! Groups Links
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> > > Yahoo! Groups Links
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> Yahoo! Groups Links
>

21060. TS-830 Band switch

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-24 21:19:05 UTC
From: waterfield55
Topic: 21060 Message: 21060

I was switching bands and my band switch coupler broke almost in two. I have a new coupler on order from Ken, how ever the shafts are not in alignment. I am thinking I can just match up the marks on the shafts created by the set screws. Am I on the right track?

Bob
KD8HZC
www.melvinweather.com

21061. Re: [TS-520_820_530_830] SM-220 for Sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-24 21:48:45 UTC
From: Stephen Crain
Topic: 21045 Message: 21061

Hi,
8,
Steve, KG0K

--- On Fri, 4/24/09, Dennis Windle <denniswindle@sbcglobal.net> wrote:

From: Dennis Windle <denniswindle@...>
Subject: Re: [TS-520_820_530_830] SM-220 for Sale
To: TS-520_820_530_830@yahoogroups.com
Date: Friday, April 24, 2009, 12:58 PM

BS5 or BS8 Pan Adapter ??

Thanks
----- Original Message -----
From: Stephen Crain
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Friday, April 24, 2009 1:52 PM
Subject: [TS-520_820_ 530_830] SM-220 for Sale

I have a Kenwood SM-220 with the pan adapter, copy of the manual for sale in excellent condition. Strong trace, no burns. Asking $275 OBO plus shipping. Please email for pics or questions

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[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

21062. Re: [TS-520_820_530_830] TS-830 Band switch

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-24 21:48:47 UTC
From: Dave wej
Topic: 21060 Message: 21062

i re coupled, then turned fully one direction (right)

then released the coupler, and aligned the dial to indicate full right, then re tightened.

sound too simple

Dave Garber
VE3WEJ/VE3IE
----- Original Message -----
From: "waterfield55" <waterfield55@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, April 24, 2009 5:19 PM
Subject: [TS-520_820_530_830] TS-830 Band switch

>I was switching bands and my band switch coupler broke almost in two. I
>have a new coupler on order from Ken, how ever the shafts are not in
>alignment. I am thinking I can just match up the marks on the shafts
>created by the set screws. Am I on the right track?
>
> Bob
> KD8HZC
> www.melvinweather.com
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

21063. Re: [TS-520_820_530_830] Re: TS-820 Final 470 uH choke coil toasted

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-24 22:35:23 UTC
From: Lou Blasco
Topic: 21043 Message: 21063

Hi Chris,

From my reading of the circuit that choke is in the screens supply.
There are notes in the circuit indicating typical voltages during
transmit and receive. Are they correct for your set? You say " ...
some DC voltage on my antenna line". How much? Where is it coming from?

Lou
VK3ALB

At 01:07 25/04/2009, you wrote:
>Replying to myself...
>
>It seems to me if this choke toasted it is because I've got some
>DC on my antenna line. The blocking capacitor is supposed to keep
>that from happening. So I probably have a leaky blocking capacitor.
>
>It does look a little bit off color. The schematic says it is .001
>at 3KV. I will see if I can come up with one of those.
>
>What do you all think about this 470 uH choke? Is that a precise
>value or will something larger/smaller do? I will have to research
>a bit to see if I can find one. I do have something similar but it
>looks like a higher value. I could wind one on some toroids that I
>have on hand.
>
>Chris

21064. Re: [TS-520_820_530_830] Re: BA379 Pin Diode replacement

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-25 00:12:55 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 21051 Message: 21064

On Fri, 2009-04-24 at 20:57 +0000, Gordon wrote:
> Thanks Jim,
> Yes and it says a 6 to 8 week wait time

Okay, what do you find as an equivalent for BA479?
20-odd years of semiconductor development should mean there's
something that'll work...

Gordon MM3YEQ

21065. Re: BA379 Pin Diode replacement

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-25 05:17:34 UTC
From: blacklabpupp
Topic: 21051 Message: 21065

I just did a search and Pinnical Mirco has them. You can get a replacement in another package if you want. I bet if I did a larger search you could get an exact HP replacement. Quite a few suppliers carry small amounts of these parts but they are not published. You will find one. Gene

21066. For Sale TS 830S Gold Edition

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-25 12:34:33 UTC
From: paulch1956
Topic: 21066 Message: 21066

I have for sale a clean, working condition Kenwood TS 830S Gold Edition transceiver. The face plate is clean and the case has no scratches, dents or dings. It came to me with an SSB filter but no CW filters. Loads to 100 watts. New finals installed early 2009. The rig is in need of alignment. Also included a very nice MC-50 Desk microphone and an SP-520 speaker. Asking $450.00 for package. Will split shipping costs with buyer. Email if you would like to review some photos of all included.
Paul
WQ4A

21067. Re: TS-830 Band switch

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-25 14:31:03 UTC
From: waterfield55
Topic: 21060 Message: 21067

I read through some of the other post on here.
If I am understanding correctly:
As viewed from the front, I have the rig on it's side. The opening into the final cage is at the top. The flat of the rear(shortest shaft) should be facing up (band switch set to 10 or 30M).
If I use this for an alignment point, the flat on the short shaft is up (facing to the right side of the rig if it were in the normal position) and the other set screw point is facing down (towards the bottom of the rig.
When my shaft coupler arrives, I am going to take pictures and post them. I see I am not the only one who has suffered this fate.

Bob

> >I was switching bands and my band switch coupler broke almost in two. I
> >have a new coupler on order from Ken, how ever the shafts are not in
> >alignment. I am thinking I can just match up the marks on the shafts
> >created by the set screws. Am I on the right track?
> >
> > Bob
> > KD8HZC
> > www.melvinweather.com
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
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>

21068. Re: Kenwood Pin Diode source

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-25 19:49:24 UTC
From: Wim Penders
Topic: 21048 Message: 21068

Gordon,

I have several original BA-379 NOS in stock, if you still need them let me know.
You can contact me in a direct e-mail.

73, Wim PA0PGA

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> I am looking for a source or a cross reference number for the Kenwood BA379 Pin Diodes. I have found that BA379 is superseded by BA479, but it doesn't appear anyone stocks them. I tried to find a NTE cross, but no luck. The closest I found was he NTE-555A.
> Anyone have a viable source or Cross?
>
> Thanks,
> Gordon
>

21069. Re: correct connections for a TS-830S to Ameritron AL-811H

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-26 01:16:50 UTC
From: rarnold357@bellsouth.net
Topic: 21041 Message: 21069

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Bob,
> Mike:

Thanks for the information, appreciate it!. I use the 811H on my Yaesu FT1000MP MARK V now, but want to also use on my 830S.

Thanks again
Bob
W4RAA

> The 830 and 811H manuals both provide the necessary information to make the connections you are considering.
>
> If you do not have the 830 opoerators' manual you can download it free at the following website:
>
> http://www.kenwoodusa.com/Support/AMA_Radios/#_
>
> If you do not have the AL-811H manual you can download it, also free, at the following website:
>
> http://www.ameritron.com/Product.php?productid=AL-811H
>
> Page 5 in the 811H manual shows, with a drawing, how the ALC and 811H internal T/R relay connections to the transmitter/transceiver are made.
>
> Page 13 and 25 in the 830 manual discusses/shows, with the remote din plug pin assignments and a connection picture, the 7 pin din socket connections for ALC and the "Normally Open" amplifier relay connections. The ALC ground return is the din plug's outer metal shield.
>
> Use shielded cable in both relay and ALC connections between the amplifier and the transceiver. Simple stereo interconnecting cables are quite acceptable to make those connections. You will have to wire the cables to a 7 pin din plug in order to make the connections, T/R relay and ALC, to the TS-830S. Once this is done, label each cable's purpose/use, "Relay" and "ALC".
>
> There is no need for an external amplifier relay control circuit/box between the 830 and the AL-811H. The 830's internal relay contacts are more than capable of handling the AL-811H's low DC (12VDC) relay control voltage.
>
> I recommend reading and fully understanding the connectin, operating, and tuning information provided in both manuals before attempting to connect and operate any linear amplifier with your TS-830. If you have never used a linear amplifier before then might I

suggest you enlist the help of a local ham who has experience tuning and operating an amplifier with a transceiver, to help you.
>
> Failure to follow the information provided in both manuals can result in damage to and/or improper operation of both pieces of equipment.
>
> 73
> Mike
> W5RKL
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "rarnold357@" <RARNOLD357@> wrote:
> >
> > Recently acquired a very good condition TS-830S, I have an Ameritron Al-811H amplifier that i would like to connect th3 830S to. Does anyone have this combination,or if anyone could set me straight with the proper connections/setup.
> >
> > Thanks
> > Bob
> >
>

21070. AT-230

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-26 17:49:21 UTC
From: danielkohler61
Topic: 6938 Message: 21070

Anyone able to put a meter light into this thing? Tnx Dan

21071. Re: correct connections for a TS-830S to Ameritron AL-811H

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-26 20:35:28 UTC
From: w5rkl
Topic: 21041 Message: 21071

The AL-811H will work just fine with the TS-830. Again, no external amplifier T/R interface between the 830 and the AL-811H is required. Simply follow the instructions in both manuals and you will do fine.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "rarnold357@..." <RARNOLD357@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Bob,
> > Mike:
>
> Thanks for the information, appreciate it!. I use the 811H on my Yaesu FT1000MP MARK V now, but want to also use on my 830S.
>
> Thanks again
> Bob
> W4RAA
>
>
> > The 830 and 811H manuals both provide the necessary information to make the connections you are considering.
> >
> > If you do not have the 830 opoerators' manual you can download it free at the following website:
> >
> > http://www.kenwoodusa.com/Support/AMA_Radios/#_
> >
> > If you do not have the AL-811H manual you can download it, also free, at the following website:
> >
> > http://www.ameritron.com/Product.php?productid=AL-811H
> >
> > Page 5 in the 811H manual shows, with a drawing, how the ALC and 811H internal T/R relay connections to the transmitter/transceiver are made.
> >
> > Page 13 and 25 in the 830 manual discusses/shows, with the remote din plug pin assignments and a connection picture, the 7 pin din socket connections for ALC and the "Normally Open" amplifier relay connections. The ALC ground return is the din plug's outer metal shield.
> >
> > Use shielded cable in both relay and ALC connections between the amplifier and the

transceiver. Simple stereo interconnecting cables are quite acceptable to make those connections. You will have to wire the cables to a 7 pin din plug in order to make the connections, T/R relay and ALC, to the TS-830S. Once this is done, label each cable's purpose/use, "Relay" and "ALC".
> >
> > There is no need for an external amplifier relay control circuit/box between the 830 and the AL-811H. The 830's internal relay contacts are more than capable of handling the AL-811H's low DC (12VDC) relay control voltage.
> >
> > I recommend reading and fully understanding the connectin, operating, and tuning information provided in both manuals before attempting to connect and operate any linear amplifier with your TS-830. If you have never used a linear amplifier before then might I suggest you enlist the help of a local ham who has experience tuning and operating an amplifier with a transceiver, to help you.
> >
> > Failure to follow the information provided in both manuals can result in damage to and/or improper operation of both pieces of equipment.
> >
> > 73
> > Mike
> > W5RKL
> >
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "rarnold357@" <RARNOLD357@> wrote:
> > >
> > > Recently acquired a very good condition TS-830S, I have an Ameritron Al-811H amplifier that i would like to connect th3 830S to. Does anyone have this combination,or if anyone could set me straight with the proper connections/setup.
> > >
> > > Thanks
> > > Bob
> > >
> >
>

21072. Using an SB200 with a TS520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-27 02:38:26 UTC
From: jimmyz2k
Topic: 21072 Message: 21072

Hello all,
It has been a long time since my last post here.Finally made it to General class and now thinking of connecting this Heathkit SB200 to my TS520SE.From what I found online,most people are using a Softkey modification on the SB200.This from what I read is for later model transceivers.What I still do not understand is,does this allow the amp to be used without the special cables?I will not attempt to operate his unit until I find more details on using it on my own radio.Anyone that has specific details that would help me would be appreciated.I do also know that it may need some part replacements due to age.It is in fantastic condition however and I would like to see if it has an output before I spend time and money into it first.Thank you.
Jim,N2NXZ/AG

21073. Keying in CW

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-27 03:19:38 UTC
From: blacklabpupp
Topic: 21073 Message: 21073

I have always used a solid state rig for CW until I was given these TS 820's. I have been using a straight key with one until I picked up a CW keyer at the fest. Can you use a keyer straight into the outlet for the straight key or do I need to build some type of keying device for the grid block keying? I dont think the keyer is going to be able to do this on it own. Gene

21074. ts 520/ 520 acces to driver tube socket?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-27 04:29:16 UTC
From: kg4kri
Topic: 21074 Message: 21074

Hello all,
I have been reconditioning a 520SE, and I noticed some arcing under the driver tube socket. It looks like a tough job to get access to the socket. Can anyone suggest a best method for getting access to the bottom of this socket?
Thanks and 73
KG4KRI

21075. Re: Keying in CW

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-27 11:32:16 UTC
From: w5rkl
Topic: 21073 Message: 21075

Gene,

You didn't say which keyer you bought. Most, if not all, CW keyers can easily key the 820's low CW keying voltage. I use an MFJ-407D but have used other solid state CW keyers with my 820 without any trouble.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "blacklabpupp" <blacklabpupp@...> wrote:
>
> I have always used a solid state rig for CW until I was given these TS 820's. I have been using a straight key with one until I picked up a CW keyer at the fest. Can you use a keyer straight into the outlet for the straight key or do I need to build some type of keying device for the grid block keying? I dont think the keyer is going to be able to do this on it own. Gene
>

21076. the kind of-

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-27 20:56:31 UTC
From: kg6nxx
Topic: 21076 Message: 21076

the kind of antenna as seen in the photo section thats titled unknowon antenna / what is it, its a mfj1798 vertical 2mtr thru 80mtr .

from kg6nxx jon.

p.s. and its so coincidentally that is the very antenna that i need hi hi .

21077. grounding equipment

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-27 18:10:15 UTC
From: Robert Young
Topic: 21077 Message: 21077

I need some advise on the size of grounding straps from the transceiver to the common buss bar that all the other equipment is going to be grounded to. And what about a strap from the bar to the window pass-through? Since I can't go very deep into the earth because I hit solid rock, should I have several ground rods connected together?
Let me know some of your grounding techniques. You do have them grounded of course!!!
thanks, group
Robert

[Non-text portions of this message have been removed]

21078. Re: [TS-520_820_530_830] the kind of-

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-28 01:07:58 UTC
From: Dave wej
Topic: 21076 Message: 21078

http://groups.yahoo.com/group/TS-520_820_530_830/photos/album/577300843/pic/list

yes you are correct, and I have one in use(or at least trying to)
Dave Garber
VE3WEJ/VE3IE

----- Original Message -----
From: "kg6nxx" <kg6nxx@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, April 27, 2009 4:56 PM
Subject: [TS-520_820_530_830] the kind of-

> the kind of antenna as seen in the photo section thats titled unknowon
> antenna / what is it, its a mfj1798 vertical 2mtr thru 80mtr .
>
> from kg6nxx jon.
>
> p.s. and its so coincidentally that is the very antenna that i need hi hi
> .
>
>
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> ------------------------------------
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> Yahoo! Groups Links
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21079. Re: [TS-520_820_530_830] grounding equipment

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-28 15:10:29 UTC
From: Mike Rodgers
Topic: 21077 Message: 21079

i am not sure of this whole grounding subject.i suppose this opens a big can of worms but i have talked to other hams who have had everything grounded only to be hit by lightening. so,is this an attractive path to ground by lightening?i am not sure but i disconnect antennas and ac power and chassis grounds in bad weather.......mike

--- On Mon, 4/27/09, Robert Young <rjyoung67@...> wrote:

From: Robert Young <rjyoung67@...>
Subject: [TS-520_820_530_830] grounding equipment
To: "TS-520_820_530_830@yahoogroups.com" <TS-520_820_530_830@yahoogroups.com>
Date: Monday, April 27, 2009, 1:10 PM

I need some advise on the size of grounding straps from the transceiver to
the common buss bar that all the other equipment is going to be grounded
to. And what about a strap from the bar to the window pass-through? Since
I can't go very deep into the earth because I hit solid rock, should I have
several ground rods connected together?
Let me know some of your grounding techniques. You do have them grounded of
course!!!
thanks, group
Robert

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

21080. Re: [TS-520_820_530_830] grounding equipment

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-28 16:47:09 UTC
From: Chris and Alex
Topic: 21077 Message: 21080

We get some very violent storms here in winter. It's good to be able to disconnect your antennas way outside the shack in bad weather and don't ground them because it'll just make them more attractive to the lightening. If your antennas hit by lightening you don't want the lightening to go to ground in the house.
Our house is built on limestone bedrock and we have very little soil and it gets very dry in the summer. I've got a single earth rod into the rock as an RF earth and I only use dipoles or spinoffs of dipoles so the RF earth isn't that important. Everything works fine and I get good reports, the neighbours don't complain and the safety earth comes courtesy of the electric company.

Chris
SV0XBQ

2009/4/28 Mike Rodgers <mikerodgerske5gbc@...>

>
>
> i am not sure of this whole grounding subject.i suppose this opens a big
> can of worms but
> i have talked to other hams who have had everything grounded only to be hit
> by lightening.
> so,is this an attractive path to ground by lightening?i am not sure but i
> disconnect antennas and ac power and chassis grounds in bad
> weather.......mike
>
> --- On Mon, 4/27/09, Robert Young <rjyoung67@...<rjyoung67%40gmail.com>>
> wrote:
>
> From: Robert Young <rjyoung67@... <rjyoung67%40gmail.com>>
> Subject: [TS-520_820_530_830] grounding equipment
> To: "TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>"
> <TS-520_820_530_830@yahoogroups.com <TS-520_820_530_830%40yahoogroups.com>
> >
> Date: Monday, April 27, 2009, 1:10 PM
>
> I need some advise on the size of grounding straps from the transceiver to
> the common buss bar that all the other equipment is going to be grounded
> to. And what about a strap from the bar to the window pass-through? Since
> I can't go very deep into the earth because I hit solid rock, should I have
> several ground rods connected together?
> Let me know some of your grounding techniques. You do have them grounded of
> course!!!
> thanks, group
> Robert
>

> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
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>

[Non-text portions of this message have been removed]

21081. Re: [TS-520_820_530_830] grounding equipment

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-28 17:08:12 UTC
From: Wilfred Jansen
Topic: 21077 Message: 21081

From: Chris and Alex <alexandchrisp@gmail.com>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, April 28, 2009 6:47:09 PM
Subject: Re: [TS-520_820_530_830] grounding equipment

We get some very violent storms here in winter. It's good to be able to
disconnect your antennas way outside the shack in bad weather and don't
ground them because it'll just make them more attractive to the lightening.
If your antennas hit by lightening you don't want the lightening to go to
ground in the house.
Our house is built on limestone bedrock and we have very little soil and it
gets very dry in the summer. I've got a single earth rod into the rock as an
RF earth and I only use dipoles or spinoffs of dipoles so the RF earth isn't
that important. Everything works fine and I get good reports, the neighbours
don't complain and the safety earth comes courtesy of the electric company.

Chris
SV0XBQ

2009/4/28 Mike Rodgers <mikerodgerske5gbc@ yahoo.com>

>
>
> i am not sure of this whole grounding subject.i suppose this opens a big
> can of worms but
> i have talked to other hams who have had everything grounded only to be hit
> by lightening.
> so,is this an attractive path to ground by lightening?i am not sure but i
> disconnect antennas and ac power and chassis grounds in bad
> weather..... ..mike
>
> --- On Mon, 4/27/09, Robert Young <rjyoung67@gmail. com<rjyoung67%40gmail. com>>
> wrote:
>
> From: Robert Young <rjyoung67@gmail. com <rjyoung67%40gmail. com>>
> Subject: [TS-520_820_ 530_830] grounding equipment
> To: "TS-520_820_530_ 830@yahoogroups. com<TS-520_820_ 530_830%40yahoog roups.com> "
> <TS-520_820_530_ 830@yahoogroups. com <TS-520_820_ 530_830%40yahoog roups.com>
> > >
> Date: Monday, April 27, 2009, 1:10 PM
>
> I need some advise on the size of grounding straps from the transceiver to
> the common buss bar that all the other equipment is going to be grounded
> to. And what about a strap from the bar to the window pass-through? Since
> I can't go very deep into the earth because I hit solid rock, should I have

> several ground rods connected together?
> Let me know some of your grounding techniques. You do have them grounded of
> course!!!
> thanks, group
> Robert
>
> [Non-text portions of this message have been removed]
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21082. MC-50 disassembly

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-28 18:43:45 UTC
From: k2pjw
Topic: 8317 Message: 21082

Hi,
I recently bought an old mc-50 microphone to mate with my ts-830s. Unfortunately the microphone was slightly damaged during shipping. What's a good way to get at the mic element? I have to re-align the mic element on the head...looks like someone slammed it hard. Thanks and best 73, Phil

21083. Re: [TS-520_820_530_830] grounding equipment

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-28 19:27:22 UTC
From: Charles Coffee
Topic: 21077 Message: 21083

Robert;
Old rule of thumb for ground, the larger the conductor the better, so if you have 3/8 inch ground strap, good - if you have 1/2 inch ground strap then that is better.

If you have a building ground, normally located outside the house where the power company meter is or outside the house near the breaker panel, you should tie any additional ground rods to that using at least #6 AWG copper. If you have a problem getting ground rod into the earth, you can also bury un-insulated (Bare) copper wire in several directions and tie that also to the building ground and use that for the shack. I have run these types in VA where I used to live, four bare #12AWG each around 100 feet in length buried about 8 inches deep. This gave me an excellent ground.

Also, during violent storms with a lot of lightning, it is better to completely disconnect antennas if at all possible and get conductor out of the shack. Additionally, if you have very high wind and long radiators in the air, watch for high static electric build up on wire antennas that are connected to your gear (I had a full size 160 meter dipole with twin lead feeder that could arc to ground in high wind storms, and really get your attention).

Hope some of this helps.

Regards

Chuck, KJ4GU

On Mon, Apr 27, 2009 at 2:10 PM, Robert Young <rjyoung67@...> wrote:

> I need some advise on the size of grounding straps from the transceiver to
> the common buss bar that all the other equipment is going to be grounded
> to. And what about a strap from the bar to the window pass-through? Since
> I can't go very deep into the earth because I hit solid rock, should I have
> several ground rods connected together?
> Let me know some of your grounding techniques. You do have them grounded
> of
> course!!!
> thanks, group
> Robert
>
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> [Non-text portions of this message have been removed]
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> ------------------------------------
>
> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

21084. Re: Grounding

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-28 19:35:23 UTC
From: Adam Wade
Topic: 13210 Message: 21084

First off, you want to make sure that any AC or high voltage goes to ground and not through you or other equipment. Second, you want to make sure you don't have multiple paths to ground of different lengths, which creates ground loops which bring noise into your gear. And lastly, there is the lightning protection issue.

On the first two, assuming you use coax to connect all your gear together (and just about everyone today does), you already HAVE a ground system tying everything together -- the braid on your coax. Adding an additional ground will give the potential that AC won't be carried on the coax braid (but since the coax braid has very lowimpedance at 60 hz, a bunch of it will travel on the braid even WITH an expensive grounding system). However, it will almost certainly create the potential for ground loops, and possibly even worse, if you have any common mode current on your coax, you could all all sorts of weird signal strength dips based on resonances interacting between your different grounds! I've had this happen to me with a vertical, where I had a station ground and another ground rod at the antenna tied into the radial field and coax braid. I could not get the antenna to tune properly, and had weird humps where the SWR should have been low from tuning
the antenna to resonance. I disconnected the ground rod at the feed point of the antenna and all the weirdness went away and the antenna "behaved". The station ground was about 50 feet from the antenna ground, and I was giving some of the RF two out of phase paths back to the amp/transciever.
On the subject of lightning, nothing is going to prevent lightning from damaging your gear except unpligging it from any external wires at ALL, including removing the AC cord. A lightning strike even a mile away from you can produce surges in anything with an external wire attached to it, in many cases strong enough to kill the gear -- with or without a heavy duty grounding system.
In order to prevent lightning damage, you simply prevent the lightning. Have a look here, about halfway down the page. http://www.amfone.net/AMPX/114.html This guy has the ultimate solution to protecting his gear, and reading the article will help folks understand much better how ligtning forms and how to get rid of it as a threat to your equipment (here's a hint: The sky and ground form a huge air gap capacitor, and it's the discharge of the cap that is the lightning. How do you get rid of the charge in a capacitor without creating a huge BANG and an arc scar on the terminals? If you've worked with tube PAs before, you probably know the answer already, but the article shows you how to make an analog for lightning of the answer you probably already know...)
! Adam Wade -==- AF6ME -==- Ten-Tec Orion & SteppIR BiggIR Mk III !
! "I write down everything I want to remember. That way, instead !
! of spending a lot of time trying to remember what it is I wrote !
! down, I spend z time looking for the paper I wrote it down on." !
! - Beryl Pfizer -=- http://www.allthings550.com !

21085. Re: [TS-520_820_530_830] MC-50 disassembly

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-28 20:45:33 UTC
From: Walter A. Breining
Topic: 8317 Message: 21085

The silver top of the mike un-screws. The connector on the bottom likewise unscrews. The threads often have a glue like substance on them like loc-tite.

Use a hair dryer to heat the threaded part and soften the glue. If the element is damaged, get back with us and we will give you some replacement ideas.

Vy 73, Walt N9WB

----- Original Message -----
From: k2pjw
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, April 28, 2009 1:43 PM
Subject: [TS-520_820_530_830] MC-50 disassembly

Hi,
I recently bought an old mc-50 microphone to mate with my ts-830s. Unfortunately the microphone was slightly damaged during shipping. What's a good way to get at the mic element? I have to re-align the mic element on the head...looks like someone slammed it hard. Thanks and best 73, Phil

21086. Re: MC-50 disassembly

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-28 20:24:03 UTC
From: k2pjw
Topic: 8317 Message: 21086

Hi Walt,
Thanks! That was just the info I needed. The element still works too, I got lucky this time. Have a good evening, 73, Phil

--- In TS-520_820_530_830@yahoogroups.com, "Walter A. Breining" <n9wb@...> wrote:
>
> The silver top of the mike un-screws. The connector on the bottom likewise
> unscrews. The threads often have a glue like substance on them like
> loc-tite.
>
> Use a hair dryer to heat the threaded part and soften the glue. If the
> element is damaged, get back with us and we will give you some replacement
> ideas.
>
> Vy 73, Walt N9WB
>
>
> ----- Original Message -----
> From: k2pjw
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, April 28, 2009 1:43 PM
> Subject: [TS-520_820_530_830] MC-50 disassembly
>
>
>
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>
>
> Hi,
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> Unfortunately the microphone was slightly damaged during shipping. What's a
> good way to get at the mic element? I have to re-align the mic element on
> the head...looks like someone slammed it hard. Thanks and best 73, Phil
>

21087. New to the group

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-29 01:14:26 UTC
From: James French
Topic: 8317 Message: 21087

Hello everyone.

Name here is James and the call is W8ISS.

I was given a ts-520s a few years ago and finally getting around to seeing if it actually works or not. This is my first HF radio that is a hybrid type. All other HF radios I have used have been solid state as in NO tubes.

I joined the group to troll through the previous emails and to ask questions about the proper operation of this type of radio. I have been getting advice from a local about this radio and it has been helpful so far.

I have run into one stumbling block though. The radio seems to be working for receive, but I have not yet picked up a signal yet. I am getting sound out of the external speaker jack and the 25khz reference seems to be working but a little off. All I am using right now for receive is a vertical about 15 feet off the ground. I haven't even tried to transmit with this yet so I have no idea if that works yet. I have picked up plenty of signals with other receivers across the bands. Any suggestions?

James W8ISS

21088. TS-820S question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-29 04:02:35 UTC
From: Gordon
Topic: 21088 Message: 21088

I am aligning a TS-820S I have here on the bench. When setting up the Carrier frequencies to 8831.500 and 8828.500, I notice that the background noise is VERY different between USB and LSB. If I alter the USB so that it sounds as good as the LSB, then my CW offset is way off from where it should be.
The other 820 I have doesn't have this kind of difference.
Has anyone run into this and if so, what did you do to cure it?

Thanks,
Gordon

21089. Re: MC-50 disassembly

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-29 05:51:36 UTC
From: blacklabpupp
Topic: 8317 Message: 21089

Walt I have a couple of MC 50's that need mew elements. One was bad the day it was purchased and never returned, the other just quit working after I loaned it out. I think the element is bad in both, one I am sure of and the other maybe. What do you recommend for a change out the sounds as good as the MC 50? These mic's may not sound well on other radios but on TS 820 it is hard to beat.

--- In TS-520_820_530_830@yahoogroups.com, "Walter A. Breining" <n9wb@...> wrote:
>
> The silver top of the mike un-screws. The connector on the bottom likewise
> unscrews. The threads often have a glue like substance on them like
> loc-tite.
>
> Use a hair dryer to heat the threaded part and soften the glue. If the
> element is damaged, get back with us and we will give you some replacement
> ideas.
>
> Vy 73, Walt N9WB
>
>
> ----- Original Message -----
> From: k2pjw
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, April 28, 2009 1:43 PM
> Subject: [TS-520_820_530_830] MC-50 disassembly
>
>
>
>
>
>
> Hi,
> I recently bought an old mc-50 microphone to mate with my ts-830s.
> Unfortunately the microphone was slightly damaged during shipping. What's a
> good way to get at the mic element? I have to re-align the mic element on
> the head...looks like someone slammed it hard. Thanks and best 73, Phil
>

21090. Re: Keying in CW

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-29 05:58:23 UTC
From: blacklabpupp
Topic: 21073 Message: 21090

Mike
I have two keyers now. The one I think I am going to use is a MFJ-481. The other is a kit about 1x2 and it has no name on it. It might be a pixie, not sure, maybe pic keyer from old. I need to download a manual for the MFJ, because I am not sure if I can safely use the direct or grid block socket on the rear. Any advice? Gene

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Gene,
>
> You didn't say which keyer you bought. Most, if not all, CW keyers can easily key the 820's low CW keying voltage. I use an MFJ-407D but have used other solid state CW keyers with my 820 without any trouble.
>
> 73
> Mike
> W5RKL
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "blacklabpupp" <blacklabpupp@> wrote:
> >
> > I have always used a solid state rig for CW until I was given these TS 820's. I have been using a straight key with one until I picked up a CW keyer at the fest. Can you use a keyer straight into the outlet for the straight key or do I need to build some type of keying device for the grid block keying? I dont think the keyer is going to be able to do this on it own. Gene
> >
>

21091. Re: [TS-520_820_530_830] New to the group

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-29 07:51:27 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 8317 Message: 21091

On Tue, 2009-04-28 at 21:14 -0400, James French wrote:

> I have run into one stumbling block though. The radio seems to be
> working for receive, but I have not yet picked up a signal yet. I am
> getting sound out of the external speaker jack and the 25khz reference
> seems to be working but a little off. All I am using right now for
> receive is a vertical about 15 feet off the ground. I haven't even tried
> to transmit with this yet so I have no idea if that works yet. I have
> picked up plenty of signals with other receivers across the bands.
> Any suggestions?

Without knowing how big the vertical actually is, it's probably hard to say if it would be suitable for transmitting - probably not. The valve PA in the TS-520 family is pretty robust, and will match some really quite bad aerials, but it's got to be at least *approximately* right ;-)

You say the 25kHz reference is off - it's probably just that the dial is misaligned. There's a whole procedure in the manual for calibrating the VFO and reference oscillator, which may be worth following at some stage (I did it and my main dial is still about 18kHz out, ie. when set to 0 the line is closer to 25. I suspect the dial has moved on the shaft, everything else is bob on).

You don't say if you have a manual, so if you don't have a quick google and you'll find a nice archive of them provided by one of the helpful and generous members of this list. If you haven't used a hybrid rig before, you'll need it. Setting up the final isn't difficult but does require things to be done properly and in the right order, otherwise you're buying new valves (and these days, new cathode resistors too).

Okay, why might you not be receiving any signals? Well, your aerial might be crap. Your earth might be crap. Your radio might be broken. Finally, you might be Doing It Wrong.

Let's check the receiver over first. Make sure there's a plug in the "EXT VFO" socket - that has a jumper that supplies power to the VFO and without that you will hear *nothing*. The fact that you can tune past the marker every 25kHz suggests that this bit is okay. Now, we'll set some basic settings just to check it all out. The meter reads signal strength in receive, so ignore the meter switch for now. The switches should be
Standby: REC
H. SW.: Off
VOX: Off
NR: Off
AGC: Slow

RF Att: Off
RIT: Off
Function: VFO
Band and Mode: as appropriate, let's use 7MHz and LSB for now
RF gain: all the way up
AF gain: as loud as you like

Okay, got that? If you tune around the bottom half of 7MHz you should hear lots of CW, PSK31 up around 7.035-7.080, RTTY above that and the maybe some phone. Tune the Drive control to peak the receiver - this not only tunes the drive to the PA, but the RX preselector. If you switch bands, remember to switch mode (USB/LSB) as appropriate, and look up the bandplans to see where you can expect to find stuff.

No good? Let's look at the aerial.

For receiving, a long-wire antenna will get the job done. Get a long bit of wire, tie one end to something high, feed the other end in through your window (leave a drip loop!) and connect it to the centre pin of your aerial connector. You'll need an earth of some sort, but how you go about that depends a lot on how your house is wired. Since my house is fairly recent (<50 years) in the UK, I have PME wiring which has its own peculiar set of problems. You could use a dipole and not worry about earthing (at least for receive).

If you've got this far, you have basically got your radio set up in a way that should receive *something*. If you still can't hear anything, it's possible that it's just not a happy radio, and you'll need to get involved with the insides.

Hope this helps,
Gordon MM3YEQ

21092. Re: Keying in CW

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-29 11:21:20 UTC
From: ab9lz
Topic: 21073 Message: 21092

The smaller keyer sounds like it might be the N0XAS pico keyer (a great little unit) mine has been happily keying my 830 for five years now.

73 Mark

--- In TS-520_820_530_830@yahoogroups.com, "blacklabpupp" <blacklabpupp@...> wrote:
>
> Mike
> I have two keyers now. The one I think I am going to use is a MFJ-481. The other is a kit about 1x2 and it has no name on it. It might be a pixie, not sure, maybe pic keyer from old. I need to download a manual for the MFJ, because I am not sure if I can safely use the direct or grid block socket on the rear. Any advice? Gene
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Gene,
> >
> > You didn't say which keyer you bought. Most, if not all, CW keyers can easily key the 820's low CW keying voltage. I use an MFJ-407D but have used other solid state CW keyers with my 820 without any trouble.
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> > 73
> > Mike
> > W5RKL
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> >
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> > --- In TS-520_820_530_830@yahoogroups.com, "blacklabpupp" <blacklabpupp@> wrote:
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> > > I have always used a solid state rig for CW until I was given these TS 820's. I have been using a straight key with one until I picked up a CW keyer at the fest. Can you use a keyer straight into the outlet for the straight key or do I need to build some type of keying device for the grid block keying? I dont think the keyer is going to be able to do this on it own. Gene
> > >
> > >
> >
>

21093. VBT Alignment

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-29 11:34:54 UTC
From: ab9lz
Topic: 21093 Message: 21093

Hi guys, I've searched the forum and have seen this question asked, but never really saw a response. So here goes.

I've installed 455khz and 9mhz 500hz filters, I then aligned the rig per the service manual, then went back with a soundcard spectrum analyzer (glfer) and aligned the vbt osc. I now have a perfect 500hz window centered at 800hz. When I turn the VBT control counterclockwise, the filter narrows to abt 50hz (still centered on 800hz) within a few clicks... is this normal?

Btw the soundcard analyzer is pretty cool, you can see the effects of the notch filter, if shift, vbt, etc. as real signals come in.

73 Mark.

21094. $price

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-29 13:28:15 UTC
From: Mike Rodgers
Topic: 21094 Message: 21094

newbie question,could someone give me an idea of what i could expect to pay for a 830 in good working condition(ready to go on air).Thanks,mike

[Non-text portions of this message have been removed]

21095. Re: [TS-520_820_530_830] New to the group

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-29 13:01:41 UTC
From: Mike Rodgers
Topic: 8317 Message: 21095

James,if you have access to a antenna anylizer it will generate a signal with tone.you can test this by listening with one of your other solid state receivers.this might give you some idea if it is working or not.hope this helps.Mike KE5GBC

--- On Tue, 4/28/09, James French <w8iss@...> wrote:

From: James French <w8iss@...>
Subject: [TS-520_820_530_830] New to the group
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, April 28, 2009, 8:14 PM

Hello everyone.

Name here is James and the call is W8ISS.

I was given a ts-520s a few years ago and finally getting around to seeing if it actually works or not. This is my first HF radio that is a hybrid type. All other HF radios I have used have been solid state as in NO tubes.

I joined the group to troll through the previous emails and to ask questions about the proper operation of this type of radio. I have been getting advice from a local about this radio and it has been helpful so far.

I have run into one stumbling block though. The radio seems to be working for receive, but I have not yet picked up a signal yet. I am getting sound out of the external speaker jack and the 25khz reference seems to be working but a little off. All I am using right now for receive is a vertical about 15 feet off the ground. I haven't even tried to transmit with this yet so I have no idea if that works yet. I have picked up plenty of signals with other receivers across the bands.
Any suggestions?

James W8ISS

[Non-text portions of this message have been removed]

21096. Re: Keying in CW

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-29 16:16:16 UTC
From: w5rkl
Topic: 21073 Message: 21096

Gene,

The 481's grid block negative keying option is rated at 300VDC at 10ma. The 481's direct, or cathode, keying option is rated at 300VDC at 100ma.

The 820 CW mode's keying voltage, at the CW socket on the rear, is -1VDC at 1ma. Therefore, the 481's grid block keying option will safely key the 820 just fine.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "blacklabpupp" <blacklabpupp@...> wrote:
>
> Mike
> I have two keyers now. The one I think I am going to use is a MFJ-481. The other is a kit about 1x2 and it has no name on it. It might be a pixie, not sure, maybe pic keyer from old. I need to download a manual for the MFJ, because I am not sure if I can safely use the direct or grid block socket on the rear. Any advice? Gene
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> > Gene,
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> > You didn't say which keyer you bought. Most, if not all, CW keyers can easily key the 820's low CW keying voltage. I use an MFJ-407D but have used other solid state CW keyers with my 820 without any trouble.
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> > >
> > >
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>

21097. Re: TS-830S Power Transformer Secondary Winding No-Load Voltages?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-29 16:18:19 UTC
From: scott10k
Topic: 21031 Message: 21097

--- In TS-520_820_530_830@yahoogroups.com, "oldamateuradioman" <w0ng@...> wrote:
>
> This one of those moments that something I should know from experience just escapes me. I'm finding that getting older has it's disadvantages sometimes.
>
> My question is in regards to the "no-load" secondary winding voltages on the power transformer of my TS-830S transceiver.
>
> From studying the schematic, it is LABELED that it has a 800/400/0 winding and a 300/210/100/0 winding for the high/medium voltage supplies to the rectifier board.
>
> QUESTION: With these wires completely disconnected from the rectifier board, what "actual" voltages should I expect to see when measuring each winding tap with a suitable voltmeter?
>
> In some quick voltage checks with my Fluke DMM (and with a Simpson 260) I not reading anywhere close to the voltages indicated on the schematic drawing LABELS.
>
> At each winding tap, no-load voltages aren't even half of what's indicated on the schematic and rectifier board markings.
>
> Perhaps these schematic & rectifier board LABEL MARKINGS are not intended to indicate actual no-load secondary voltages but are just reference points for proper wire connections?
>
> Here's hoping some of you will be willing to end my confusion with some advice. It's most likely a simple concept, but for now, it doesn't make much sense.
>
> Tnx & 73, Bill, w0ng
>
Bill, I have found the same thing when measuring the voltages at the secondary taps of the transformer. The 800 volts connection, which is less than half of that, goes to the voltage doubler. My no-load HV plate voltage measures 947 volts, which had me concerned, but from other posts in this forum, it is apparently normal.
73s, Scott, N6CIC

21098. TS830s Bandswitch problems and 2 tips

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-29 18:03:47 UTC
From: Steve Cooke
Topic: 21098 Message: 21098

Hi all,
In an attempt to fix intermittent loss of ALC on some bands on my otherwise excellent 830s , I've managed to lose it completely on ALL bands !!! I think I have found the cause , but stumbled across a couple of tips that I thought I would pass on in the meantime .
I removed the RF board to gain access to the rearmost wafer of the bandswitch , and found that a previous " repair " had been done to the fixed contacts . They had been squeezed together in an attempt to get a better contact with the wiper.
Sadly they had been squeezed too far - with the result that instead of the wiper going in between the contacts , it went over the top. The contacts were also loose on the board , the rivets were not holding them tight - I had to solder the contacts to the copper tracks.
I put the RF board back expecting the ALC to behave properly - the result - no ALC at all - and the RX side had gone deaf to boot !
The RX fault turned out to be a dry joint on connector 5 on the RF board that carries the RIF signal .
Whilst chasing the ALC problem , I stumbled upon the fact that with the SG switch in the off position todisable the finals , if you put the meter
switch to HV and flip the send switch , you can read the final's HT voltage - normaly you can only read it whilst in transmit mode and not in idle , the meter returning to signal strength upon key up. Might help someone diagnose impending HV power supply problems in the future .
73 steve G1MPW.

21099. Volt meter accuracy

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-29 18:47:36 UTC
From: Gordon
Topic: 21099 Message: 21099

I have a dilemma here. I have 4 DVM's (Digital Volt Meters) and all 4 read different voltages off the same circuit. What is the best way to discover which one is correct? I'd buy another meter, but not sure that would solve my problem :-)
Thanks,
Gordon

21100. Re: [TS-520_820_530_830] Volt meter accuracy

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-29 18:54:36 UTC
From: Adrian Ellison
Topic: 21099 Message: 21100

Gordon,

The best thing to do is throw 3 of them away, then the one you have left is always right :-)

Adrian / ZS1TTZ

On Wednesday 29 April 2009 20:47:36 Gordon wrote:
> I have a dilemma here. I have 4 DVM's (Digital Volt Meters) and all 4 read
> different voltages off the same circuit. What is the best way to discover
> which one is correct? I'd buy another meter, but not sure that would solve
> my problem :-) Thanks,
> Gordon

21101. Re: [TS-520_820_530_830] $price

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-29 19:41:35 UTC
From: Charles Coffee
Topic: 21094 Message: 21101

They run anywhere from $400 to $675 (gold edition) on ebay. You can occasionally find a deal here or some of the ham classifieds for $300-$400, but they normally do not last long.

Good Luck,
Chuck
KJ4GU

On Wed, Apr 29, 2009 at 9:28 AM, Mike Rodgers <mikerodgerske5gbc@...>wrote:

> newbie question,could someone give me an idea of what i could expect to pay
> for a 830
> in good working condition(ready to go on air).Thanks,mike
>
>
>
>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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>

[Non-text portions of this message have been removed]

21102. Re: [TS-520_820_530_830] Volt meter accuracy

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-29 19:53:20 UTC
From: Charles Coffee
Topic: 21099 Message: 21102

Gordan;
If you are feeling handy, you could build yourself a precision voltage reference. I made one some time back and use it to verify the accuracy of my DMMs. Take a look a the link below for some ideas, Maxim and Linear Tech used to make these ICs.
http://datasheets.maxim-ic.com/en/ds/REF01-REF02.pdf
Regards
Chuck, KJ4GU

On Wed, Apr 29, 2009 at 2:47 PM, Gordon <n6wk@...> wrote:

> I have a dilemma here. I have 4 DVM's (Digital Volt Meters) and all 4 read
> different voltages off the same circuit. What is the best way to discover
> which one is correct? I'd buy another meter, but not sure that would solve
> my problem :-)
> Thanks,
> Gordon
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
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>

[Non-text portions of this message have been removed]

21103. Re: [TS-520_820_530_830] VBT Alignment

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-29 20:08:56 UTC
From: Dave wej
Topic: 21093 Message: 21103

you can do that with hamscope, or any sound card software that shows the
spectrum

> Btw the soundcard analyzer is pretty cool, you can see the effects of the
> notch filter, if shift, vbt, etc. as real signals come in.
>
which analyzer, do you have a link??? url???

Dave Garber
VE3WEJ/VE3IE

> 73 Mark.
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
>

21104. Re: [TS-520_820_530_830] Volt meter accuracy

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-29 20:09:58 UTC
From: Dave wej
Topic: 21099 Message: 21104

how far off are they, milli volts, 1 volt. for power supplies, its ok

but i do like the answer below

Dave Garber
VE3WEJ/VE3IE
----- Original Message -----
From: "Adrian Ellison" <ellisona@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, April 29, 2009 2:54 PM
Subject: Re: [TS-520_820_530_830] Volt meter accuracy

> Gordon,
>
> The best thing to do is throw 3 of them away, then the one you have left
> is
> always right :-)
>
> Adrian / ZS1TTZ
>
> On Wednesday 29 April 2009 20:47:36 Gordon wrote:
>> I have a dilemma here. I have 4 DVM's (Digital Volt Meters) and all 4
>> read
>> different voltages off the same circuit. What is the best way to discover
>> which one is correct? I'd buy another meter, but not sure that would
>> solve
>> my problem :-) Thanks,
>> Gordon
>
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
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>

21105. Operating at or near QRP with a TS-520S - How to

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-29 21:04:15 UTC
From: Jim Larsen
Topic: 21105 Message: 21105

I need a bit of help here. I am out of touch with how to use a TS-520S and I received a question from a ham who read a comment on my website about reducing power for QRP. http://www.al7fs.us/AL7FS1.html "QRP Getting Started"

Subject: Kenwood power reduction
Date: Tue, 28 Apr 2009 19:53:21 -0700
From: Steve <Yioutta@...>
Hi Jim
I was looking over your web page and noticed that you said you can
reduce power on the Kenwood. I have a Kenwood TS520s. I always tuned it for max power, thinking it would be out of tune if I did not. How do I reduce power without burning it up?
Thanks steve N7LWF

Can one of you provide a "how to" on reducing power to the minimum on a TS-520S while still keeping it properly peaked and dipped? Also, concerning ALC, is there a safe way to use N4BP's circuit from http://www.qsl.net/n4bp/alc_adj.jpg ?

Thanks for any help on this one.

73, Jim
--
Jim Larsen, AL7FS
ARRL Section Manager - Alaska
http://www.AL7FS.us/ http://www.ARRL.org/
Anchorage Alaska (907)345-3190

21106. Re: [TS-520_820_530_830] Operating at or near QRP with a TS-520S - How to

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-29 21:29:30 UTC
From: Gordon JC Pearce MM3YEQ
Topic: 21105 Message: 21106

On Wed, 2009-04-29 at 21:04 +0000, Jim Larsen wrote:

> Can one of you provide a "how to" on reducing power to the minimum on
> a TS-520S while still keeping it properly peaked and dipped? Also,
> concerning ALC, is there a safe way to use N4BP's circuit from
> http://www.qsl.net/n4bp/alc_adj.jpg ?

That circuit looks pretty reasonable. You might also use the one about
2/3 of the way down this page:
http://www.radiomods.co.nz/kenwood/kenwoodts520.html

Gordon

21107. Re: VBT Alignment

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-29 23:11:15 UTC
From: ab9lz
Topic: 21093 Message: 21107

Glfer, here are two screen shots of it in action doing rig alignment

http://home.rr.com/ab9lz

and Glfer (Linux only)

http://www.qsl.net/in3otd/glfer.html

Still, anyone know if the VBT control is meant to clamp off after a quarter turn with twin 500hz filters?

--- In TS-520_820_530_830@yahoogroups.com, "Dave wej" <ve3wej@...> wrote:
>
> you can do that with hamscope, or any sound card software that shows the
> spectrum
>
>
>
> > Btw the soundcard analyzer is pretty cool, you can see the effects of the
> > notch filter, if shift, vbt, etc. as real signals come in.
> >
> which analyzer, do you have a link??? url???
>
> Dave Garber
> VE3WEJ/VE3IE
>
>
>
> > 73 Mark.
> >
> >
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> > ------------------------------------
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> > Yahoo! Groups Links
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21108. Re: [TS-520_820_530_830] $price

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-30 00:31:34 UTC
From: ted
Topic: 21094 Message: 21108

Hi Mike
Clean with a pair a filters and all bands working 350.00 to 450.00

Mike Rodgers wrote:
>
>
> newbie question,could someone give me an idea of what i could expect
> to pay for a 830
> in good working condition(ready to go on air).Thanks,mike
>
> [Non-text portions of this message have been removed]
>
>
> ---
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.287 / Virus Database: 270.12.9/2087 - Release Date: 04/29/09 18:03:00
>
>

No virus found in this outgoing message.
Checked by AVG - www.avg.com
Version: 8.5.287 / Virus Database: 270.12.9/2087 - Release Date: 04/29/09 18:03:00

[Non-text portions of this message have been removed]

21109. Re: [TS-520_820_530_830] Operating at or near QRP with a TS-520S - How to

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-30 00:54:37 UTC
From: Jim Larsen - AL7FS
Topic: 21105 Message: 21109

Thanks, Gordon. I have passed this on to N7LWF.

Jim
Jim Larsen, AL7FS
ARRL Section Manager - Alaska
http://www.AL7FS.us/ http://www.ARRL.org/
Anchorage Alaska (907)345-3190

Gordon JC Pearce MM3YEQ wrote:
You might also use the one about
> 2/3 of the way down this page:
> http://www.radiomods.co.nz/kenwood/kenwoodts520.html
>
> Gordon

21110. Re: Volt meter accuracy

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-30 11:49:11 UTC
From: blacklabpupp
Topic: 21099 Message: 21110

The hard and fast rule I was told at work was to forget the last digit. Digital meters from certain manufactors are plenty accurate. Not all are, but, I do have mine sent back for calibration every coulple of years. That depends on how much a day you use your equipment. Mine gets hard use daily, but if you use one once a week I doubt you would need to adjust it as often. As the rep told the boss dont waste your money on cheaper meters. You will never regret money spent on good test gear.

> how far off are they, milli volts, 1 volt. for power supplies, its ok
>
>
> but i do like the answer below
>
>
> Dave Garber
> VE3WEJ/VE3IE
> ----- Original Message -----
> From: "Adrian Ellison" <ellisona@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Wednesday, April 29, 2009 2:54 PM
> Subject: Re: [TS-520_820_530_830] Volt meter accuracy
>
>
> > Gordon,
> >
> > The best thing to do is throw 3 of them away, then the one you have left
> > is
> > always right :-)
> >
> > Adrian / ZS1TTZ
> >
> > On Wednesday 29 April 2009 20:47:36 Gordon wrote:
> >> I have a dilemma here. I have 4 DVM's (Digital Volt Meters) and all 4
> >> read
> >> different voltages off the same circuit. What is the best way to discover
> >> which one is correct? I'd buy another meter, but not sure that would
> >> solve
> >> my problem :-) Thanks,
> >> Gordon
> >
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> > ------------------------------------
> >
> > Yahoo! Groups Links

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> >
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21111. Re: Volt meter accuracy

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-30 14:10:00 UTC
From: k6aom
Topic: 21099 Message: 21111

--- Take the highest and lowest, set the lowest meter aside and use the one the middle reading (average).
There goes another thought!
Harry

--- In TS-520_820_530_830@yahoogroups.com, "blacklabpupp" <blacklabpupp@...> wrote:
>
> The hard and fast rule I was told at work was to forget the last digit. Digital meters from certain manufactors are plenty accurate. Not all are, but, I do have mine sent back for calibration every coulple of years. That depends on how much a day you use your equipment. Mine gets hard use daily, but if you use one once a week I doubt you would need to adjust it as often. As the rep told the boss dont waste your money on cheaper meters. You will never regret money spent on good test gear.
> > how far off are they, milli volts, 1 volt. for power supplies, its ok
> > >
> > >
> > > but i do like the answer below
> > >
> > >
> > > Dave Garber
> > > VE3WEJ/VE3IE
> > > ----- Original Message -----
> > > From: "Adrian Ellison" <ellisona@>
> > > To: <TS-520_820_530_830@yahoogroups.com>
> > > Sent: Wednesday, April 29, 2009 2:54 PM
> > > Subject: Re: [TS-520_820_530_830] Volt meter accuracy
> > >
> > >
> > > > Gordon,
> > > >
> > > > The best thing to do is throw 3 of them away, then the one you have left
> > > > is
> > > > always right :-)
> > > >
> > > > Adrian / ZS1TTZ
> > > >
> > > > On Wednesday 29 April 2009 20:47:36 Gordon wrote:
> > > >> I have a dilemma here. I have 4 DVM's (Digital Volt Meters) and all 4
> > > >> read
> > > >> different voltages off the same circuit. What is the best way to discover
> > > >> which one is correct? I'd buy another meter, but not sure that would
> > > >> solve
> > > >> my problem :-) Thanks,
> > > >> Gordon

> > >
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> > > ------------------------------------
> > >
> > > Yahoo! Groups Links
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21112. New member

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-30 06:17:28 UTC
From: kj4icg_rick
Topic: 64 Message: 21112

Hello all...

Name here is Rick and I am a new HAM as of 11-08.
I picked up a 520S as my first HF rig around mid February and have been enjoying it very much...even the "learning curve" hi hi

I have a small problem that I hope some of you guys may be able to steer me through.
The rig seems to work fine in every respect with the exception of 40 meters...the noise floor keeps the meter "pegged" and I cannot seem to receive anything...or at least can't hear it for the noise.

Just a few notes of "FYI" type stuff....

Station ground system is 3/16 copper (like used on "power poles") which runs from the ground rod at the power meter to a ground rod at the load center to a 3rd ground rod just outside the shack then up through the floor...a 4' piece of 12g wire is soldered to that and runs over to the rig....total run from meter ground to shack is about 30'...all wire is sold copper, not stranded.

I am using an LDG AT-100Pro ATU with all 3 antennas...

First, I put up an OCF dipole (4:1 balun at feedpoint) at about 35'...this combination works marginally on 80m and does much better on 20m (I've logged SSB QSOs in Spain, France and South America on 20m)

Next, I built a "standard" dipole cut for 1.900 up about 35'...this antenna works well on 160 and 80 meters...better on 80 than the OCFD...barely hear signals on 20m (which I expected)

Next, I built a fan dipole for 40m and 20m...again at about 35'.
This antenna was about useless :(

I have since put the OCFD back up since it works best for me on 20...none of them changed 40m.

I'm beginning to think it's not JUST the antenna...hi hi

Sorry about being long winded...any help greatly appreciated...

73

KJ4ICG - Rick

21113. Re: New member

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-30 18:09:21 UTC
From: Ken Hunter
Topic: 64 Message: 21113

From another new member...

Put the rig on a dummy load and see what happens. If the noise on 40 goes away, it's coming down the antenna lead, if noise level stays high with no antenna and a dummy load connected, the noise is being generated in the transceiver somewhere and might be nothing more than an alignment problem.

At one time the "trick" to tuning RX's was to "peak" the noise by turning all the slugs in all the cans for max noise. Worked good on simple superhet designs using vacuum tubes and a couple of bands but with the newer double or triple conversion multi-band rigs, that method isn't likely to get the rig working to best advantage. Your rig might have been "Peaked" this way before you picked it up.

Good luck!

Ken - KB7H

--- In TS-520_820_530_830@yahoogroups.com, "kj4icg_rick" <kj4icg@...> wrote:
>
> Hello all...
>
> Name here is Rick and I am a new HAM as of 11-08.
> I picked up a 520S as my first HF rig around mid February and have been enjoying it very much...even the "learning curve" hi hi
>
> I have a small problem that I hope some of you guys may be able to steer me through.
> The rig seems to work fine in every respect with the exception of 40 meters...the noise floor keeps the meter "pegged" and I cannot seem to receive anything...or at least can't hear it for the noise.
>
> Just a few notes of "FYI" type stuff....
>
> Station ground system is 3/16 copper (like used on "power poles") which runs from the ground rod at the power meter to a ground rod at the load center to a 3rd ground rod just outside the shack then up through the floor...a 4' piece of 12g wire is soldered to that and runs over to the rig....total run from meter ground to shack is about 30'...all wire is sold copper, not stranded.
>
> I am using an LDG AT-100Pro ATU with all 3 antennas...
>
> First, I put up an OCF dipole (4:1 balun at feedpoint) at about 35'...this combination works marginally on 80m and does much better on 20m (I've logged SSB QSOs in Spain, France and South America on 20m)
>
> Next, I built a "standard" dipole cut for 1.900 up about 35'...this antenna works well on 160 and 80 meters...better on 80 than the OCFD...barely hear signals on 20m (which I

expected)
>
> Next, I built a fan dipole for 40m and 20m...again at about 35'.
> This antenna was about useless :(
>
> I have since put the OCFD back up since it works best for me on 20...none of them changed 40m.
>
> I'm beginning to think it's not JUST the antenna...hi hi
>
> Sorry about being long winded...any help greatly appreciated...
>
> 73
>
> KJ4ICG - Rick
>

21114. Bulb Replacement TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-30 18:32:12 UTC
From: Joe McGerald
Topic: 21114 Message: 21114

The bulb that lights the frequency dial is out in one of my TS-520s. Is it difficult to replace? Can I use a 12V bulb from an auto parts or radio shack store?

I don't have a service manual although I presume one is available online.

Thanks for the info.

21115. Re: Bulb Replacement TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-30 19:57:29 UTC
From: scott10k
Topic: 21114 Message: 21115

--- In TS-520_820_530_830@yahoogroups.com, "Joe McGerald" <astro_crazy@...> wrote:
>
> The bulb that lights the frequency dial is out in one of my TS-520s. Is it difficult to replace? Can I use a 12V bulb from an auto parts or radio shack store?
>
> I don't have a service manual although I presume one is available online.
>
> Thanks for the info.
>
Hi Joe,

Go to www.k4eaa.com for replacement bulbs at a good price.
Scott, N6CIC

21116. Re: [TS-520_820_530_830] ts 520/ 520 acces to driver tube socket?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-30 20:08:25 UTC
From: g4jbr@netscape.net
Topic: 21074 Message: 21116

Hi I was waiting for someone else to reply...with a more info than me!! but haven't seen it happen.....I've got at the bottom of my driver' 'cos the track had gone o/c under there 'cos of heat...I can't remember exactly how I did it....I know I was apprehensive about it 'cos it looked a problem,but from memory it wasn't too difficult...you just had to extricate, sideways through the tangle of wires,?the metal plate that shields it.
all the best Pete G4JBR

-----Original Message-----
From: kg4kri <kg4kri@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Mon, 27 Apr 2009 5:29 am
Subject: [TS-520_820_530_830] ts 520/ 520 acces to driver tube socket?

Hello all,
I have been reconditioning a 520SE, and I noticed some arcing under the driver tube socket. It looks like a tough job to get access to the socket. Can anyone suggest a best method for getting access to the bottom of this socket?
Thanks and 73
KG4KRI

[Non-text portions of this message have been removed]

21117. Re: [TS-520_820_530_830] Bulb Replacement TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-30 20:27:10 UTC
From: K5vse-Mike
Topic: 21114 Message: 21117

If I remember correctly, Kenwood sold those lamps in the past. I ordered about 2 dozen of them some time ago. They are grain-O-wheat lamps, with about 4-6" leads on them. Not to hard to replace. I have also used the sensor lamps used in VCR repair, but they may no longer be available, since we live in a throw away world now.

But do a search for Kenwood East and ask them if they still sell the right ones.

73,
Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2009
"In God We Trust"

[Non-text portions of this message have been removed]

21118. Re: [TS-520_820_530_830] New member

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-30 21:53:14 UTC
From: martin
Topic: 64 Message: 21118

Hi Rick. As Ken - KB7H pointed out, see if the noise is coming through the antenna or not. If its not, you may have a problem with the radio. Can you hear the calibrator on 40 meters? You may ned to do an alignment. The basic alignment of the TS-520S is not hard to do. The procedure is in the manual. If the noise is coming in via an antenna, you may need to try to figure out if something in your residence is causing it. Basically start unplugging all of your home electronics one thing at a time, and see if the noise goes away. Many electronic items can cause radio interference. One of the main causes these days is the cheap plug-in power supplies (also known as wall warts) used for cell phones and other items.

Let us know what you figure out.

TTYL and good luck.

kj4icg_rick wrote:
> Hello all...
>
> Name here is Rick and I am a new HAM as of 11-08.
> I picked up a 520S as my first HF rig around mid February and have been enjoying it very much...even the "learning curve" hi hi
>
> I have a small problem that I hope some of you guys may be able to steer me through.
> The rig seems to work fine in every respect with the exception of 40 meters...the noise floor keeps the meter "pegged" and I cannot seem to receive anything...or at least can't hear it for the noise.
>
> Just a few notes of "FYI" type stuff....
>
> Station ground system is 3/16 copper (like used on "power poles") which runs from the ground rod at the power meter to a ground rod at the load center to a 3rd ground rod just outside the shack then up through the floor...a 4' piece of 12g wire is soldered to that and runs over to the rig....total run from meter ground to shack is about 30'...all wire is sold copper, not stranded.
>
> I am using an LDG AT-100Pro ATU with all 3 antennas...
>
> First, I put up an OCF dipole (4:1 balun at feedpoint) at about 35'...this combination works marginally on 80m and does much better on 20m (I've logged SSB QSOs in Spain, France and South America on 20m)
>
> Next, I built a "standard" dipole cut for 1.900 up about 35'...this antenna works well on 160 and 80 meters...better on 80 than the OCFD...barely hear signals on 20m (which I expected)
>

> Next, I built a fan dipole for 40m and 20m...again at about 35'.
> This antenna was about useless :(
>
> I have since put the OCFD back up since it works best for me on 20...none of them changed 40m.
>
> I'm beginning to think it's not JUST the antenna...hi hi
>
> Sorry about being long winded...any help greatly appreciated...
>
> 73
>
> KJ4ICG - Rick
>
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to: www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at http://www.defectivebydesign.org/what_is_drm"

21119. Re: [TS-520_820_530_830] Bulb Replacement TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-04-30 21:45:37 UTC
From: K5vse-Mike
Topic: 21114 Message: 21119

You can go the this URL and download the manual for the TS-520

http://gmcotton.com/Ham_Radio/Kenwood%20Manuals/Kenwood-TRIO_TS520%20HF%20Trancievер_Manual.pdf

I have it on my system, and it's not a bad copy. Matter of fact, I have to
use it this week, as a fellow shipped one in for service.

Hope this helps you find all you problems.

73,
Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2009
"In God We Trust"

[Non-text portions of this message have been removed]

21120. Re: Bulb Replacement TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-01 14:13:09 UTC
From: w5rkl
Topic: 21114 Message: 21120

Hello Joe,

No, auto lamps will not work as replacement lamps in your TS-520.

Although there are sections in the TS-520's operator's manual that contain maintenance adjustments etc, the TS-520's service manual should be consulted when servicing your TS-520. The service manual is available for downloading, free of charge, from various Internet website sites such as N6WK (http://www.n6wk.com/kenwood/).

Radio Shack sells a small 12V lamps that will work quite well as replacements for the dial and meter lamps. Radio Shack's part number is "272-1141" at $1.49 each, plus tax. If your local Radio Shack stores does not have them in stock then Radio Shack can order them for you and have them shipped directly to your house. I recently ordered 6 of them and had them shipped directly to my house.

Ken, K4EAA, also sells replacement dial and meter lamps, as well as other hard to find replacement parts, which are similar to Radio Shack's lamps.

The choice is yours to make. However, which ever choice you make, if your repair skills are limited, I recommend you enlist the help of a local ham who has repair experience.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Joe McGerald" <astro_crazy@...> wrote:
>
> The bulb that lights the frequency dial is out in one of my TS-520s. Is it difficult to replace? Can I use a 12V bulb from an auto parts or radio shack store?
>
> I don't have a service manual although I presume one is available online.
>
> Thanks for the info.
>

21121. TS830S Tune Up Question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-01 10:43:01 UTC
From: rdmegargle
Topic: 21121 Message: 21121

I have recently acquired a TS-830S and need an opinion on the best tune-up procedure. Reading the manual, it lists two: the dip/peak method or using the RF position--adjusting load and plate for max relative RF output.

Any opinions on the "best" procedure for this rig, or are they both valid? I've run nothing but tube finals for the past 33 years, but this is my first Kenwood and would like to have the experts weigh in.
Russ K8AF

21122. Re: [TS-520_820_530_830] TS830S Tune Up Question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-01 16:13:03 UTC
From: Adrian Ellison
Topic: 21121 Message: 21122

Hello Russ,

I never bother with the R/F output meter, I usually load it to around 230 - 240 milliamps, there's no benefit to going higher, but it's important to ensure that you're registering some ALC voltage when you do this.

If you're planning to use CW then, after tuning, back off the CAR control until the ALC no longer indicates, you get a lovely clean CW shape that way.

Remember if you're using an external tuner for whatever reason (balanced feedline etc) to tune your TS-830S as above into a 50 ohm dummy load first, then switch in your tuner/antenna and adjust your tuner to match.

That's all there is to it.

73 de Adrian / ZS1TTZ

On Friday 01 May 2009 12:43:01 rdmegargle wrote:
> I have recently acquired a TS-830S and need an opinion on the best tune-up
> procedure. Reading the manual, it lists two: the dip/peak method or using
> the RF position--adjusting load and plate for max relative RF output.
>
> Any opinions on the "best" procedure for this rig, or are they both valid?
> I've run nothing but tube finals for the past 33 years, but this is my
> first Kenwood and would like to have the experts weigh in. Russ K8AF

21123. Re: TS830S Tune Up Question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-02 00:13:22 UTC
From: scott10k
Topic: 21121 Message: 21123

--- In TS-520_820_530_830@yahoogroups.com, "rdmegargle" <rdmegargle@...> wrote:
>
> I have recently acquired a TS-830S and need an opinion on the best tune-up procedure. Reading the manual, it lists two: the dip/peak method or using the RF position--adjusting load and plate for max relative RF output.
>
> Any opinions on the "best" procedure for this rig, or are they both valid? I've run nothing but tube finals for the past 33 years, but this is my first Kenwood and would like to have the experts weigh in.
> Russ K8AF
>
Hi Russ,

I use the dip/peak method just because I want to get the plate current down ASAP, and at the same time I watch my antenna tuner watt meter to see max. output. Just my preference.

73s,
Scott, N6CIC

21124. NB / Noise Blanker question on TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-02 01:24:14 UTC
From: jay_hendershott
Topic: 21124 Message: 21124

Hello All,

I believe my noise blank function may not be working properly. If it function somewhat like the NB on my 857D I would expect it to cut out electrical noise, some forms of RFI etc, or at least reduce it by x amount.I have tried flipping the switch on and off numerous times. Different bands, different forms of rfi etc with no noticeable reduction. My question, is this function not very noticeable on this unit or might I have an adjustment or circuit problem. I have been studying the schematic a little but wanted to get a little insight before removing the cover. Any help is appreciated.

73

JR

21125. Re: New to the group

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-02 02:04:40 UTC
From: catboat15@aol.com
Topic: 7308 Message: 21125

Can you hear WVV that should come in where ever you are on a minimum antenna. Right now and for the past few years we have been in a sun spot minimum and DX is pretty dead on most bands.

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[Non-text portions of this message have been removed]

21126. Re: [TS-520_820_530_830] NB / Noise Blanker question on TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-02 02:23:23 UTC
From: Lou Blasco
Topic: 21124 Message: 21126

Hi Jay,

First question from me is what kind of noise are you expecting to
reduce? The Kenwood noise blanker is very good at removing impulse
noise. It won't remove hash or continuous noise. I have an electric
fence about half a mile from my aerial and without the blanker it's
there all the time. With the blanker in, it's gone altogether. I
guess you can test yours by flicking your light switch on and off a few times.

Lou
VK3ALB

At 11:24 02/05/2009, you wrote:
>Hello All,
>
>I believe my noise blank function may not be working properly. If
>it function somewhat like the NB on my 857D I would expect it to cut
>out electrical noise, some forms of RFI etc, or at least reduce it
>by x amount.I have tried flipping the switch on and off numerous
>times. Different bands, different forms of rfi etc with no
>noticeable reduction. My question, is this function not very
>noticeable on this unit or might I have an adjustment or circuit
>problem. I have been studying the schematic a little but wanted to
>get a little insight before removing the cover. Any help is appreciated.
>
>73
>
>JR
>
>
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21127. Re: [TS-520_820_530_830] Re: New to the group

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-02 02:53:24 UTC
From: James French
Topic: 7308 Message: 21127

Haven't even heard WWV...:(

Taking this unit to a friend tommorrow morning to have him look at it
and test it on a 'real' antenna.

Will post results tommorrow afternoon.

Thanks for all the hints and ideas so far.

James W8ISS
=====
On Fri, 2009-05-01 at 22:04 -0400, catboat15@... wrote:
> Can you hear WVV that should come in where ever you are on a minimum
> antenna. Right now and for the past few years we have been in a sun spot
> minimum and DX is pretty dead on most bands.
> **********Join ChristianMingle.com® FREE! Meet Christian Singles in
> your area. Start now!
> (http://pr.atwola.com/promoclk/100126575x1221673648x1201419171/aol?redir=http://www.chri
stianmingle.com/campaign.html%3Fcat%3Dadbuy%26
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> [Non-text portions of this message have been removed]
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21128. Re: NB / Noise Blanker question on TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-02 03:08:56 UTC
From: jay_hendershott
Topic: 21124 Message: 21128

Hello Lou,

The noise I was hoping for it to reduce was power line noise that tends to spike at times. I also have a lot of wireless routers in the neighborhood which I would like to quiet down if possible. I use the IF shift and the RF Gain with some success but I cannot tell a difference when switching the NB in and out. I did try switching different light switches on and off with the NB in different positions but could not tell a difference. Hope this help.

Thanks

JR

--- In TS-520_820_530_830@yahoogroups.com, Lou Blasco <radio@...> wrote:
>
> Hi Jay,
>
> First question from me is what kind of noise are you expecting to
> reduce? The Kenwood noise blanker is very good at removing impulse
> noise. It won't remove hash or continuous noise. I have an electric
> fence about half a mile from my aerial and without the blanker it's
> there all the time. With the blanker in, it's gone altogether. I
> guess you can test yours by flicking your light switch on and off a few times.
>
> Lou
> VK3ALB
>
> At 11:24 02/05/2009, you wrote:
> >Hello All,
> >
> >I believe my noise blank function may not be working properly. If
> >it function somewhat like the NB on my 857D I would expect it to cut
> >out electrical noise, some forms of RFI etc, or at least reduce it
> >by x amount.I have tried flipping the switch on and off numerous
> >times. Different bands, different forms of rfi etc with no
> >noticeable reduction. My question, is this function not very
> >noticeable on this unit or might I have an adjustment or circuit
> >problem. I have been studying the schematic a little but wanted to
> >get a little insight before removing the cover. Any help is appreciated.
> >
> >73
> >
> >JR
> >
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21129. Re: [TS-520_820_530_830] Re: NB / Noise Blanker question on TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-02 03:39:44 UTC
From: DALE PARFITT
Topic: 21124 Message: 21129

----- Original Message -----
From: "jay_hendershott" <k7gfh@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, May 01, 2009 11:08 PM
Subject: [TS-520_820_530_830] Re: NB / Noise Blanker question on TS-820S

> Hello Lou,
>
> The noise I was hoping for it to reduce was power line noise that tends to
> spike at times. I also have a lot of wireless routers in the neighborhood
> which I would like to quiet down if possible. I use the IF shift and the
> RF Gain with some success but I cannot tell a difference when switching
> the NB in and out. I did try switching different light switches on and
> off with the NB in different positions but could not tell a difference.
> Hope this help.
>
> Thanks
>
> JR
>

My Twins NB is very effective on impulse noise (ignition, weedeaters etc) -
at least as good as my TR-4CW/RIT blanker. I would not expect much efficacy
with uncorrelated power line noise from an impulse type blanker.

Dale W4OP

21130. Re: [TS-520_820_530_830] Re: NB / Noise Blanker question on TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-02 04:34:11 UTC
From: Lou Blasco
Topic: 21124 Message: 21130

Hi Jay,

Depending on the type of PLI you have you 'may' get a little relief
from the NB but the wireless router interference is a lot more
difficult to eradicate. I had a D-Link router that would generate a
sound like water dripping into a bucket on HF. It sounded similar on
SSB and AM and ran all the way from 2MHz to about 25MHz. Only way I
could fix it was to turn off the router. Not a solution for you
unfortunately. I'd say your NB is probably OK but the noise you have
does not have a sharp rise time and hence goes straight through unaffected.

Lou
VK3ALB

At 13:08 02/05/2009, you wrote:
>Hello Lou,
>
>The noise I was hoping for it to reduce was power line noise that
>tends to spike at times. I also have a lot of wireless routers in
>the neighborhood which I would like to quiet down if possible. I
>use the IF shift and the RF Gain with some success but I cannot tell
>a difference when switching the NB in and out. I did try switching
>different light switches on and off with the NB in different
>positions but could not tell a difference. Hope this help.
>
>Thanks
>
>JR
>
>--- In TS-520_820_530_830@yahoogroups.com, Lou Blasco <radio@...> wrote:
> >
> > Hi Jay,
> >
> > First question from me is what kind of noise are you expecting to
> > reduce? The Kenwood noise blanker is very good at removing impulse
> > noise. It won't remove hash or continuous noise. I have an electric
> > fence about half a mile from my aerial and without the blanker it's
> > there all the time. With the blanker in, it's gone altogether. I
> > guess you can test yours by flicking your light switch on and off
> a few times.
> >
> > Lou
> > VK3ALB
> >
> > At 11:24 02/05/2009, you wrote:
> > >Hello All,

> > >
> > >I believe my noise blank function may not be working properly. If
> > >it function somewhat like the NB on my 857D I would expect it to cut
> > >out electrical noise, some forms of RFI etc, or at least reduce it
> > >by x amount.I have tried flipping the switch on and off numerous
> > >times. Different bands, different forms of rfi etc with no
> > >noticeable reduction. My question, is this function not very
> > >noticeable on this unit or might I have an adjustment or circuit
> > >problem. I have been studying the schematic a little but wanted to
> > >get a little insight before removing the cover. Any help is appreciated.
> > >
> > >73
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21131. Re: [TS-520_820_530_830] Re: NB / Noise Blanker question on TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-02 06:06:40 UTC
From: martin
Topic: 21124 Message: 21131

Hi Guys. While some routers may produce some RF, the most likely cause is the cheap, crappy, switching "wall wart" type power supplies that they come with. I had a bad noise problem that I though was my router...until i hooked it up to a non-switching supply. I now use the same router, but the noise problem is gone. Unfortunately, many electronic devices today use these type of cheap, crappy, Rf polluting power supplies. I believe that many of these power supplies are violating FCC rules, but there seems to be no interesr from the FCC in solving the problem.

I have seen cell phone chargers (motorola razors are the worst) that wipe out HF from below the AM broadcast band to over 30Mhz with S-8 to s9+40Db signals. This when the natenna was more than 100 feet away.

Fortunatley for me, I only have 2 close neighbors, and their stuff don't bother me RF wise (so far...keeping fingers and toes crossed!)

Anyway, the noise blanker on the older Kenwood radios were mainly meant to work on impulse noise, such as from a car ignition. They don't do much of anything for other types of noise.

About all that you can do is make sure that your own home electronics are not part of the noise problem.

TTYL

Lou Blasco wrote:
> Hi Jay,
>
> Depending on the type of PLI you have you 'may' get a little relief
> from the NB but the wireless router interference is a lot more
> difficult to eradicate.
>>
>> The noise I was hoping for it to reduce was power line noise that
>> tends to spike at times. I also have a lot of wireless routers in
>> the neighborhood which I would like to quiet down if possible. I
>> use the IF shift and the RF Gain with some success but I cannot tell
>> a difference when switching the NB in and out. I did try switching
>> different light switches on and off with the NB in different
>> positions but could not tell a difference. Hope this help.
>>
>> Thanks
>>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

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21132. Filters For TS 820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-02 10:15:56 UTC
From: blacklabpupp
Topic: 21132 Message: 21132

I am in need of two more SSB filters. Does anyone know if a YK 88s will work in an 820? It looks like I could wire it in but I am not sure about it since it came from a TS 440. I believe this filter is for 2.4k but I also need another for 2.8k. Can anyone give me the correct numbers to look for? All the filters I am currently using are INRAD and I refuse to purchase amy more from there. They are good but the price is just to high. I can do alot better at the area hamfests. Ok so call me cheap. Gene

21133. Re: Filters For TS 820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-02 14:57:49 UTC
From: Bob Mansker
Topic: 21132 Message: 21133

I have a nice YK-88S filter (2.4 Kc bandpass & solder-in type)...
Pulled form a TS-530S that had a hot receiver...
Would take $45.00 plus $3.00 for postage...

The YK-88S1 is a 2.6 kc bandpass... (sold out)
The YK-88S2 is a 3.0 Kc bandpass... (no stock)
Not sure about a 2.8 Kc filter??

Bob
KE5FTF
****

--- In TS-520_820_530_830@yahoogroups.com, "blacklabpupp" <blacklabpupp@...> wrote:
>
> I am in need of two more SSB filters. Does anyone know if a YK 88s will work in an 820? It looks like I could wire it in but I am not sure about it since it came from a TS 440. I believe this filter is for 2.4k but I also need another for 2.8k. Can anyone give me the correct numbers to look for? All the filters I am currently using are INRAD and I refuse to purchase amy more from there. They are good but the price is just to high. I can do alot better at the area hamfests. Ok so call me cheap. Gene
>

21134. Re: Filters For TS 820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-02 15:06:46 UTC
From: Bob Mansker
Topic: 21132 Message: 21134

Forgot to add...
The TS-820 & 820S uses a YG-88S SSB filter...
It is larger & has different mounting solder terminals than the YK-88S filter from the TS-530S, 830S, 430S & 440S....

--- In TS-520_820_530_830@yahoogroups.com, "blacklabpupp" <blacklabpupp@...> wrote:
>
> I am in need of two more SSB filters. Does anyone know if a YK 88s will work in an 820? It looks like I could wire it in but I am not sure about it since it came from a TS 440. I believe this filter is for 2.4k but I also need another for 2.8k. Can anyone give me the correct numbers to look for? All the filters I am currently using are INRAD and I refuse to purchase amy more from there. They are good but the price is just to high. I can do alot better at the area hamfests. Ok so call me cheap. Gene
>

21135. Re: NB / Noise Blanker question on TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-02 20:07:11 UTC
From: jay_hendershott
Topic: 21124 Message: 21135

Thanks for the reply's. Unfortuneatly for me I am surrounded by at least 5 wireless routers. I did test mine and it is one of the culprits. I did find that it was not the power supply but the router itself. I have a SGC 239 coupler attached to 100' of wire which loves to attract RFI anyway. I was just hoping that I had an issue with the NB I could fix so I could expect a little more relief from the noise.

73

Jay

--- In TS-520_820_530_830@yahoogroups.com, "jay_hendershott" <k7gfh@...> wrote:
>
> Hello All,
>
> I believe my noise blank function may not be working properly. If it function somewhat like the NB on my 857D I would expect it to cut out electrical noise, some forms of RFI etc, or at least reduce it by x amount.I have tried flipping the switch on and off numerous times. Different bands, different forms of rfi etc with no noticeable reduction. My question, is this function not very noticeable on this unit or might I have an adjustment or circuit problem. I have been studying the schematic a little but wanted to get a little insight before removing the cover. Any help is appreciated.
>
> 73
>
> JR
>

21136. Re: [TS-520_820_530_830] Re: NB / Noise Blanker question on TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-02 20:47:16 UTC
From: DALE PARFITT
Topic: 21124 Message: 21136

----- Original Message -----
From: "jay_hendershott" <k7gfh@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, May 02, 2009 4:07 PM
Subject: [TS-520_820_530_830] Re: NB / Noise Blanker question on TS-820S

> Thanks for the reply's. Unfortuneatly for me I am surrounded by at least
> 5 wireless routers. I did test mine and it is one of the culprits. I did
> find that it was not the power supply but the router itself. I have a SGC
> 239 coupler attached to 100' of wire which loves to attract RFI anyway. I
> was just hoping that I had an issue with the NB I could fix so I could
> expect a little more relief from the noise.
>
> 73
>
> Jay

Is the SGC mounted outside with a good RF ground on it, and a decent ground isolation transformer inside the shack? If not the feedline will/can couple noises from the house out to the antenna in common mode, where they are picked up by the antenna and back to your rig in transmission line mode.

Dale W4OP
If not the feeline into the ho

21137. HV Reading in Transmit on TS-520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-02 21:09:17 UTC
From: scott10k
Topic: 21137 Message: 21137

I was not getting an HV reading on the panel meter when in SEND mode. In this case the problem could be solved by tracing continuity and checking the voltage divider resistors on the HV Board. CAUTION-in a no-load condition, there are about 940 volts entering this board. Be sure to unplug the radio and discharge the HV capacitors and the capacitors on the rectifier board before testing the HV board.

One of the 680k voltage divider resistors had increased resistance to a very high value and another had an open connection. Replacing both of these resistors restored HV readings on the panel meter.

21138. Re: TS-520SE HT query

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-03 03:48:32 UTC
From: scott10k
Topic: 20454 Message: 21138

--- In TS-520_820_530_830@yahoogroups.com, "sv0xbq" <alexandchrisp@...> wrote:
>
> Hi everyone,
>
> I'm chasing a low TX power problem on a TS-520SE. I can only put out around 80 watts cw on 20m. I had the driver tube out and after putting it back I got over 200 watts for one time only so I think I've got a dry joint or bad connection somewhere. I've just had a DVM on the HT and I get 900 volts off load and 780 volts keyed. Is this normal? Also where can I find the HV filter caps?
>
> Thanks for any advice
>
> Chris
> SV0XBQ

Hi Chris,
I have been working on an HV problem on my TS-520S when I came across your query. Here is an eBay source for the HV filter caps, which I have replaced and am happy with the seller and the result.

http://cgi.ebay.com/Kenwood-TS-520-TS-530S-TS-820S-TS-830S-HV-Filter-Caps_W0QQitemZ130302928231QQihZ003QQcategoryZ4674QQssPageNameZWDVWQQrdZ1QQcmdZViewItem

Did you try to replace the driver tube? On my 520S the unloaded HV is 947 and the loaded is 800 volts, so you are pretty close. There will be variations from one voltmeter to the next.
73s,
Scott N6CIV
>

21139. Re: [TS-520_820_530_830] $price

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-03 09:57:06 UTC
From: Dave and Loraine
Topic: 21094 Message: 21139

Hi Mike,
See previous posts on the Gold myth.
Bon chance,
Dave f4eyk

21140. Re: TS-520SE HT query

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-03 14:06:53 UTC
From: w5rkl
Topic: 20454 Message: 21140

The TS-520SE is not capable of producing 200 watts "output". If one is using a watt meter and the watt meter shows 200 watts output I seriously question the watt meter's accuracy.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "scott10k" <scottandalene@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "sv0xbq" <alexandchrisp@> wrote:
> >
> > Hi everyone,
> >
> > I'm chasing a low TX power problem on a TS-520SE. I can only put out around 80 watts cw on 20m. I had the driver tube out and after putting it back I got over 200 watts for one time only so I think I've got a dry joint or bad connection somewhere. I've just had a DVM on the HT and I get 900 volts off load and 780 volts keyed. Is this normal? Also where can I find the HV filter caps?
> >
> > Thanks for any advice
> >
> > Chris
> > SV0XBQ
>
> Hi Chris,
> I have been working on an HV problem on my TS-520S when I came across your query. Here is an eBay source for the HV filter caps, which I have replaced and am happy with the seller and the result.
>
> http://cgi.ebay.com/Kenwood-TS-520-TS-530S-TS-820S-TS-830S-HV-Filter-Caps_W0QQitemZ130302928231QQihZ003QQcategoryZ4674QQssPageNameZWDVWQQrdZ1QQcmdZViewItem
>
> Did you try to replace the driver tube? On my 520S the unloaded HV is 947 and the loaded is 800 volts, so you are pretty close. There will be variations from one voltmeter to the next.
> 73s,
> Scott N6CIV
> >
>

21141. Re: [TS-520_820_530_830] Re: TS-520SE HT query

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-03 14:19:27 UTC
From: Gordon JC Pearce
Topic: 20454 Message: 21141

On Sun, 2009-05-03 at 14:06 +0000, w5rkl wrote:
> The TS-520SE is not capable of producing 200 watts "output". If one
> is using a watt meter and the watt meter shows 200 watts output I
> seriously question the watt meter's accuracy.

Indeed. The power supply is only capable of putting out about
200W-worth of HT at best. If one can measure over about 100W RF output,
something is not long for this world.

Gordon

21142. grey send switch for the kenwood ts520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-03 09:13:10 UTC
From: dellthorp
Topic: 21142 Message: 21142

Hello,
I own a kenwood ts 520s problem is the grey send switch on the front panel has broken,and I cannot find a spare anywhere unless i buy a scraped ts520,I miss the old girl and she is waitng to be online again

21143. TS520S freq change on TX to RX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-03 12:09:00 UTC
From: Alex Holden
Topic: 21143 Message: 21143

First post since joining several weeks past. Had my TS520S on the air yesterday, and noticed I had to retune the CQ'ing station after keying the mic as I was off frequency enough so that they were unintelligible. It happened several other times with other stations leading me to think that it was antenna relay. Thoughts? How do you clean the relay?
73 Alex

_____
Get the name you've always wanted @... or @...! Go to http://ca.promos.yahoo.com/jacko/

[Non-text portions of this message have been removed]

21144. Re: [TS-520_820_530_830] grey send switch for the kenwood ts520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-03 18:59:53 UTC
From: Gordon JC Pearce
Topic: 21142 Message: 21144

On Sun, 2009-05-03 at 09:13 +0000, dellthorp wrote:
> Hello,
> I own a kenwood ts 520s problem is the grey send switch on the front
> panel has broken,and I cannot find a spare anywhere unless i buy a
> scraped ts520,I miss the old girl and she is waitng to be online
> again

Keep an eye on eBay - they do crop up from time to time when people part out broken sets.

The send switch isn't a biggie - as long as you can switch it to receive, you can always just use the PTT line on the mike socket.

Gordon

21145. Re: [TS-520_820_530_830] grey send switch for the kenwood ts520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-03 19:15:10 UTC
From: Ron
Topic: 21142 Message: 21145

Did you check with Bob, K5FTF? I know that he sells Kenwood parts. He is in this group too.

Ron WB9BDZ

[Non-text portions of this message have been removed]

21146. Re: TS520S freq change on TX to RX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-03 21:26:34 UTC
From: w5rkl
Topic: 21143 Message: 21146

The antenna relay has nothing to do with VFO tuning or frequency control in the 520.

Have you checked to ensure the RIT button is not pushed in (activates RIT)?

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Alex Holden <va3aex@...> wrote:
>
> First post since joining several weeks past. Had my TS520S on the air yesterday, and noticed I had to retune the CQ'ing station after keying the mic as I was off frequency enough so that they were unintelligible. It happened several other times with other stations leading me to think that it was antenna relay. Thoughts? How do you clean the relay?
> 73 Alex
>
>
> _____
> Get the name you've always wanted @ymail.com or @...! Go to http://ca.promos.yahoo.com/jacko/
>
> [Non-text portions of this message have been removed]
>

21147. Re: New member

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-04 00:57:30 UTC
From: kj4icg_rick
Topic: 64 Message: 21147

Hi guys...

Thanks for the input...I have found that the noise disappears when the antenna is disconnected and that I can hear the calibrator on all bands.
My next step will be to shut off the main breaker to the house and bring in an extension cord from my shop to power the rig (this would let me know if the source is something inside the house).
If I find that the noise is coming "from within", I'll start an item by item search.

Thanks again..

73

Rick-KJ4ICG

--- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@...> wrote:
>
> Hi Rick. As Ken - KB7H pointed out, see if the noise is coming
> through the antenna or not. If its not, you may have a problem with
> the radio. Can you hear the calibrator on 40 meters? You may ned to do
> an alignment. The basic alignment of the TS-520S is not hard to do.
> The procedure is in the manual. If the noise is coming in via an
> antenna, you may need to try to figure out if something in your
> residence is causing it. Basically start unplugging all of your home
> electronics one thing at a time, and see if the noise goes away. Many
> electronic items can cause radio interference. One of the main causes
> these days is the cheap plug-in power supplies (also known as wall
> warts) used for cell phones and other items.
>
> Let us know what you figure out.

21148. Re: [TS-520_820_530_830] Re: TS520S freq change on TX to RX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-04 01:05:47 UTC
From: Alex Holden
Topic: 21143 Message: 21148

Thanks Mike for the reply. The RIT button is not pushed in... other ideas?

73 Alex

--- On Sun, 5/3/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: TS520S freq change on TX to RX
To: TS-520_820_530_830@yahoogroups.com
Received: Sunday, May 3, 2009, 9:26 PM

The antenna relay has nothing to do with VFO tuning or frequency control in the 520.

Have you checked to ensure the RIT button is not pushed in (activates RIT)?

Mike W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, Alex Holden <va3aex@...> wrote:
>
> First post since joining several weeks past. Had my TS520S on the air yesterday, and noticed I had to retune the CQ'ing station after keying the mic as I was off frequency enough so that they were unintelligible. It happened several other times with other stations leading me to think that it was antenna relay. Thoughts? How do you clean the relay?
> 73 Alex
>
>
> ____________ _________ _________ _________ _________ _________ _
> Get the name you've always wanted @... or @rocketmail. com! Go to http://ca.promos. yahoo.com/ jacko/
>
> [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

21149. Re: [TS-520_820_530_830] TS520S freq change on TX to RX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-04 05:18:58 UTC
From: martin
Topic: 21143 Message: 21149

Hi Alex. How long had the radio been on before you started operating?
I do not think that the antenna relay would cause this sort of
problem. Possibly one or more parts in the low voltage supply are
going bad.

Good luck.

Alex Holden wrote:
> First post since joining several weeks past. Had my TS520S on the
> air yesterday, and noticed I had to retune the CQ'ing station after
> keying the mic as I was off frequency enough so that they were
> unintelligible. It happened several other times with other
> stations leading me to think that it was antenna relay. Thoughts?
> How do you clean the relay? 73 Alex
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> _____
> Get the name you've always wanted @... or @...! Go
> to http://ca.promos.yahoo.com/jacko/
>
> [Non-text portions of this message have been removed]
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--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

21150. Re: [TS-520_820_530_830] Re: TS520S freq change on TX to RX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-04 10:14:57 UTC
From: Gordon JC Pearce
Topic: 21143 Message: 21150

On Sun, 2009-05-03 at 18:05 -0700, Alex Holden wrote:
> Thanks Mike for the reply. The RIT button is not pushed in... other ideas?

Search back through the list archives for advice on drifty VFOs. A few people have experienced this - I daren't say I haven't, because if I do mine will promptly start wobbling all over the band.

The first hit I got suggested replacing D5 and Q7 to cure a drifty TS-820. These correspond to Q4 and D3 on the FIX CH board in a TS-520, and provide a regulated 9V supply to the VFO. Check the supply from them to see if it's still anything like 9V, and see if it changes.

Gordon

21151. Re: grey send switch for the kenwood ts520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-04 08:34:30 UTC
From: dellthorp
Topic: 21142 Message: 21151

--- In TS-520_820_530_830@yahoogroups.com, Ron <rkeuler@...> wrote:
>
> Did you check with Bob, K5FTF? I know that he sells Kenwood parts. He
> is in this group too.
>
> Ron WB9BDZ
>
>
> [Non-text portions of this message have been removed]
>
Thanks for the feed back on the switch I guess thats what I am going to have to do find another kenwood for parts I do see 2 on ebay in the u.s for parts, very rarly get to many here in vk,the good kenwoods are attracting good prices on ebay here ,nobody would pay anymore than 250-350 aussie dollars a couple of years ago good or bad,now your looking between $600-$1200 and possibly more and yes I would pay that for an 820s
So does bob k5ftf have an ebay or web site for these parts

barry vk4baz

21152. Re: grey send switch for the kenwood ts520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-04 17:09:06 UTC
From: jetboye1970
Topic: 21142 Message: 21152

I have just dealt with Bob KE5FTF . I found him on QTH.com swap section http://swap.qth.com/ . That is where he has listed the parts he is selling. You can email him as well from there .

Also Hello to the group .

George KC2UXC

--- In TS-520_820_530_830@yahoogroups.com, "dellthorp" <dellthorp@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, Ron <rkeuler@> wrote:
> >
> > Did you check with Bob, K5FTF? I know that he sells Kenwood parts. He
> > is in this group too.
> >
> > Ron WB9BDZ
> >
> >
> > [Non-text portions of this message have been removed]
> >
> Thanks for the feed back on the switch I guess thats what I am going to have to do find another kenwood for parts I do see 2 on ebay in the u.s for parts, very rarly get to many here in vk,the good kenwoods are attracting good prices on ebay here ,nobody would pay anymore than 250-350 aussie dollars a couple of years ago good or bad,now your looking between $600-$1200 and possibly more and yes I would pay that for an 820s
> So does bob k5ftf have an ebay or web site for these parts
>
> barry vk4baz
>

21153. Re: TS520S freq change on TX to RX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-04 23:19:58 UTC
From: Thomas
Topic: 21143 Message: 21153

I've seen this before. Frequency jumps when certain things change... abrupt small frequency changes etc., usually means the screws on the RF board worked loose and ground is getting shaky. Tighten down the screws that hold the RF board.

73,

Tom WB9RXJ

--- In TS-520_820_530_830@yahoogroups.com, Alex Holden <va3aex@...> wrote:
>
> Thanks Mike for the reply. The RIT button is not pushed in... other ideas?
>
> 73 Alex
>
> --- On Sun, 5/3/09, w5rkl <w5rkl@...> wrote:
>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: TS520S freq change on TX to RX
> To: TS-520_820_530_830@yahoogroups.com
> Received: Sunday, May 3, 2009, 9:26 PM
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>
> The antenna relay has nothing to do with VFO tuning or frequency control in the 520.
>
> Have you checked to ensure the RIT button is not pushed in (activates RIT)?
>
> Mike W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Alex Holden <va3aex@> wrote:
> >
> > First post since joining several weeks past. Had my TS520S on the air yesterday, and noticed I had to retune the CQ'ing station after keying the mic as I was off frequency enough so that they were unintelligible. It happened several other times with other stations leading me to think that it was antenna relay. Thoughts? How do you clean the relay?
> > 73 Alex
> >
> >
> > ____________ _________ _________ _________ _________ _________ _

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yahoo.com/ jacko/
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21154. Using an SB200 on a TS520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-05 03:07:44 UTC
From: jimmyz2k
Topic: 21154 Message: 21154

I apologize if this is already posted.I feel I have searched everywhere and get vague results.I would like to use an SB200 amp with my TS520SE.I have found an old tube which the socket pins fit perfectly on the Kenwood remote socket.This will work great for the cable I want to make.I need to know what pins for ALC and Ant relay on the amp go to on the TS520SE.I have the manual for both units,but still I am confused.I do not want to fry anything.Any help here would be appreciated.
Jim,N2NXZ

21155. Re: Filters For TS 820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-05 12:32:30 UTC
From: blacklabpupp
Topic: 21132 Message: 21155

Bob are you sure a YK 88s will work in the 820? All I have is the stock filters for SSb an INRAD for CW. I checked on the Files page and it does not list the filters that will fit the 820. I am just not sure. Gene .....
Sorry for being slow to answer I have been back and forth to the hospital and fills up the day.

21156. Re: TS520S freq change on TX to RX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-05 11:14:39 UTC
From: ab9lz
Topic: 21143 Message: 21156

My 520 had that problem, it would jump as the rig warmed during the transmit cycle. Turned out that a screw was missing from the bottom of the VFO.

--- In TS-520_820_530_830@yahoogroups.com, "Thomas" <carnage_59@...> wrote:
>
> I've seen this before. Frequency jumps when certain things change... abrupt small frequency changes etc., usually means the screws on the RF board worked loose and ground is getting shaky. Tighten down the screws that hold the RF board.
>
> 73,
>
> Tom WB9RXJ
>
> --- In TS-520_820_530_830@yahoogroups.com, Alex Holden <va3aex@> wrote:
> >
> > Thanks Mike for the reply. The RIT button is not pushed in... other ideas?
> >
> > 73 Alex
> >
> > --- On Sun, 5/3/09, w5rkl <w5rkl@> wrote:
> >
> >
> > From: w5rkl <w5rkl@>
> > Subject: [TS-520_820_530_830] Re: TS520S freq change on TX to RX
> > To: TS-520_820_530_830@yahoogroups.com
> > Received: Sunday, May 3, 2009, 9:26 PM
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> >
> > The antenna relay has nothing to do with VFO tuning or frequency control in the 520.
> >
> > Have you checked to ensure the RIT button is not pushed in (activates RIT)?
> >
> > Mike W5RKL
> >
> > --- In TS-520_820_530_ 830@yahoogroups. com, Alex Holden <va3aex@> wrote:
> > >
> > > First post since joining several weeks past. Had my TS520S on the air yesterday, and noticed I had to retune the CQ'ing station after keying the mic as I was off frequency enough so that they were unintelligible. It happened several other times with other

stations leading me to think that it was antenna relay. Thoughts? How do you clean the relay?
> > > 73 Alex
> > >
> > >
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> > > Get the name you've always wanted @... or @rocketmail. com! Go to http://ca.promos. yahoo.com/ jacko/
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21157. Characteristics PS1 and PS2 parasitic surpressors TS520 / TS530sp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-05 09:36:36 UTC
From: radiovintage2000
Topic: 21157 Message: 21157

HI

What the Characteristics are Ohm and Watt of the resistances of
the PS1 and PS2 (the final input parasitic surpressors) of
the rtx TS520 / TS530sp

Thank to all Frank

21158. New member, new ham, lots of questions

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-05 16:10:44 UTC
From: jaiden0
Topic: 21158 Message: 21158

I inherited a TS-520S which hasn't been used for receiving in 15 years and transmitting in almost 20. I just got my Tech license so there are a few spots in HF land where I'm allowed to play with it (and more when I learn code)

I'm trying to get it tuned up on 10M with a homemade dipole and I'm noticing that when I set it to TUNE mode, It drops from 28.3xx to a stable frequency near 26.900 on my DG-5. I'm able to follow the tuning procedure from there, but I'm wondering whether something is broken.

Also, sometimes in SSB I see that the frequency is stable when I key the mic, but when I speak it sometimes has this same problem, though it's jumping all over the place.

Is this normal? If not, what is wrong?

thanks

21159. Re: [TS-520_820_530_830] New member, new ham, lots of questions

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-05 19:17:38 UTC
From: Dave wej
Topic: 21158 Message: 21159

sounds like a crystal (fix??) setting, not in vfo mode.. but not sure...

----- Original Message -----
From: "jaiden0" <jaiden0@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, May 05, 2009 12:10 PM
Subject: [TS-520_820_530_830] New member, new ham, lots of questions

>I inherited a TS-520S which hasn't been used for receiving in 15 years and
>transmitting in almost 20. I just got my Tech license so there are a few
>spots in HF land where I'm allowed to play with it (and more when I learn
>code)
>
> I'm trying to get it tuned up on 10M with a homemade dipole and I'm
> noticing that when I set it to TUNE mode, It drops from 28.3xx to a stable
> frequency near 26.900 on my DG-5. I'm able to follow the tuning procedure
> from there, but I'm wondering whether something is broken.
>
> Also, sometimes in SSB I see that the frequency is stable when I key the
> mic, but when I speak it sometimes has this same problem, though it's
> jumping all over the place.
>
> Is this normal? If not, what is wrong?
>
> thanks
>
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21160. Swapping 6146 Finals on two TS-830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-05 19:37:59 UTC
From: ko6ww
Topic: 21160 Message: 21160

Hello Group,
I have two TS-830, one which seems to have been tempered (Chassis holes) and a second one unmolested. The first have the RCA 6146A which measure about 140W the second rig has the Sylvania 9146W which measure about 120W.

I want to swap them, but don't know if I need to neutralize them (Which I don't know how) before I proceed.

Any advice will be well taken.

Cheers,
KO6WW

21161. Re: [TS-520_820_530_830] Swapping 6146 Finals on two TS-830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-05 20:49:06 UTC
From: Dave wej
Topic: 21160 Message: 21161

are you really expecting a difference for 20 watts?????

is the 9146w supposed to be 6146w.

----- Original Message -----
From: "ko6ww" <ko6ww@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, May 05, 2009 3:37 PM
Subject: [TS-520_820_530_830] Swapping 6146 Finals on two TS-830s

> Hello Group,
> I have two TS-830, one which seems to have been tempered (Chassis holes)
> and a second one unmolested. The first have the RCA 6146A which measure
> about 140W the second rig has the Sylvania 9146W which measure about 120W.
>
> I want to swap them, but don't know if I need to neutralize them (Which I
> don't know how) before I proceed.
>
> Any advice will be well taken.
>
> Cheers,
> KO6WW
>
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> Yahoo! Groups Links
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21162. Re: [TS-520_820_530_830] Swapping 6146 Finals on two TS-830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-05 21:05:35 UTC
From: Gordon JC Pearce
Topic: 21160 Message: 21162

On Tue, 2009-05-05 at 19:37 +0000, ko6ww wrote:
> Hello Group,
> I have two TS-830, one which seems to have been tempered (Chassis holes) and a second one unmolested. The first have the RCA 6146A which measure about 140W the second rig has the Sylvania 9146W which measure about 120W.
>
> I want to swap them, but don't know if I need to neutralize them (Which I don't know how) before I proceed.
>
> Any advice will be well taken.
>
> Cheers,
> KO6WW

If you change the output valves, you'll need to neutralise the PA. The procedure is documented in the manual. They're not kidding about needing a non-metallic screwdriver.

When I fitted PA valves to my TS-520 I used a metal screwdriver (with the set off, caps discharged, left hand in back pocket and girlfriend on first-aid standby) to loosen the very very stiff neutralising cap - 30-odd years of stiction and dry grease needed to be freed off! To actually neutralise the set, I used a "screwdriver" made from a hard acrylic knitting needle.

It sounds like both sets are pretty healthy as they are. To be quite honest, I'd be most inclined to leave them alone if they're working.

Gordon

21163. Re: [TS-520_820_530_830] Swapping 6146 Finals on two TS-830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-05 23:52:56 UTC
From: Luis Estrella
Topic: 21160 Message: 21163

Correct. Thanks.

--- On Tue, 5/5/09, Dave wej <ve3wej@...> wrote:

From: Dave wej <ve3wej@...>
Subject: Re: [TS-520_820_530_830] Swapping 6146 Finals on two TS-830s
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, May 5, 2009, 1:49 PM

are you really expecting a difference for 20 watts?????

is the 9146w supposed to be 6146w.

----- Original Message -----
From: "ko6ww" <ko6ww@yahoo. com>
To: <TS-520_820_530_ 830@yahoogroups. com>
Sent: Tuesday, May 05, 2009 3:37 PM
Subject: [TS-520_820_ 530_830] Swapping 6146 Finals on two TS-830s

> Hello Group,
> I have two TS-830, one which seems to have been tempered (Chassis holes)
> and a second one unmolested. The first have the RCA 6146A which measure
> about 140W the second rig has the Sylvania 9146W which measure about 120W.
>
> I want to swap them, but don't know if I need to neutralize them (Which I
> don't know how) before I proceed.
>
> Any advice will be well taken.
>
> Cheers,
> KO6WW
>
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[Non-text portions of this message have been removed]

21164. Re: [TS-520_820_530_830] Re: TS520S freq change on TX to RX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-05 23:57:16 UTC
From: Alex Holden
Topic: 21143 Message: 21164

Tightening the screws down seems to have solved the problem! My thanks to all who replied.
73 Alex

--- On Tue, 5/5/09, ab9lz <ab9lz@...m> wrote:

From: ab9lz <ab9lz@...>
Subject: [TS-520_820_530_830] Re: TS520S freq change on TX to RX
To: TS-520_820_530_830@yahoogroups.com
Received: Tuesday, May 5, 2009, 11:14 AM

My 520 had that problem, it would jump as the rig warmed during the transmit cycle. Turned out that a screw was missing from the bottom of the VFO.

--- In TS-520_820_530_ 830@yahoogroups. com, "Thomas" <carnage_59@ ...> wrote:

>

> I've seen this before. Frequency jumps when certain things change... abrupt small frequency changes etc., usually means the screws on the RF board worked loose and ground is getting shaky. Tighten down the screws that hold the RF board.

>

> 73,

>

> Tom WB9RXJ

>

> --- In TS-520_820_530_ 830@yahoogroups. com, Alex Holden <va3aex@> wrote:

> >

> > Thanks Mike for the reply. The RIT button is not pushed in... other ideas?

> >

> > 73 Alex

> >

> > --- On Sun, 5/3/09, w5rkl <w5rkl@> wrote:

> >

> >

> > From: w5rkl <w5rkl@>

> > Subject: [TS-520_820_ 530_830] Re: TS520S freq change on TX to RX

> > To: TS-520_820_530_ 830@yahoogroups. com

> > Received: Sunday, May 3, 2009, 9:26 PM

> >

> >

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> >

> > The antenna relay has nothing to do with VFO tuning or frequency control in the 520.

> >

> > Have you checked to ensure the RIT button is not pushed in (activates RIT)?

> >

> > Mike W5RKL

> >

> > --- In TS-520_820_530_ 830@yahoogroups. com, Alex Holden <va3aex@> wrote:

> > >

> > > First post since joining several weeks past. Had my TS520S on the air yesterday, and noticed I had to retune the CQ'ing station after keying the mic as I was off frequency enough so that they were unintelligible. It happened several other times with other stations leading me to think that it was antenna relay. Thoughts? How do you clean the relay?

> > > 73 Alex

> > >

> > >

> > > _____ _____ _____ _____ _____ _____ _

> > > Get the name you've always wanted @... or @rocketmail. com! Go to http://ca.promos. yahoo.com/ jacko/

> > >

> > > [Non-text portions of this message have been removed]

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> > [Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

21165. so i dont do a no no here

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-06 00:19:30 UTC
From: kg6nxx
Topic: 21165 Message: 21165

what is the posting of for sale or want to buy rules here again?
i have to be a member of the group for a month before doing any kind of buying and selling posting? i was needing to know so i dont mess up here thank you all and 73s for now. kg6nxx jon in cali.

21166. Re: [TS-520_820_530_830] Swapping 6146 Finals on two TS-830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-06 00:25:57 UTC
From: DALE PARFITT
Topic: 21160 Message: 21166

----- Original Message -----
From: "ko6ww" <ko6ww@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, May 05, 2009 3:37 PM
Subject: [TS-520_820_530_830] Swapping 6146 Finals on two TS-830s

> Hello Group,
> I have two TS-830, one which seems to have been tempered (Chassis holes)
> and a second one unmolested. The first have the RCA 6146A which measure
> about 140W the second rig has the Sylvania 9146W which measure about 120W.
>
> I want to swap them, but don't know if I need to neutralize them (Which I
> don't know how) before I proceed.
>
> Any advice will be well taken.
>
> Cheers,
> KO6WW
>
If you are looking for the additonal 20W output, it will never be noticed on
the air. That difference is around 1/2 of a dB.
Should you decide to do the swap though, neutralization would be required,
unless you get very lucky.
Dale W4OP

21167. Re: Swapping 6146 Finals on two TS-830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-06 00:51:11 UTC
From: Kevin Rea
Topic: 21160 Message: 21167

if you don't have an rf probe or a scope to neutralize the finals, you can use another set tuned to the same frequency and just adjust the capacitor for the weakest signal heard.

kevin
k6rea

21168. Re: [TS-520_820_530_830] so i dont do a no no here

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-06 01:08:38 UTC
From: Lou Blasco
Topic: 21165 Message: 21168

Hi Jon,

The rules can be found in the files section but I've reproduced them here for you

Regards

Lou
VK3ALB

Rules pertaining to Occasional For Sale and Want to Buy Posts.

Members of the TS-520_820_530_830 Yahoo Group who have been members for at least 30 days may place offer for sale posts no more frequently than two in any 30 day period. Want to buy posts are permitted immediately upon membership and are limited to 2 in any 30 day period.

For sale posts may include sale of TS-510, 515, 520, 820, 530, 830, and the 599 series twins, as well as Kenwood accessories intended for use with these radios. Posts relating to non-Kenwood accessories commonly used with these radios may be posted, but please use discretion.

Posts must include the make and model of the item for sale as well as an accurate description of its condition and the asking price.

When the item is sold, please make a short post to that effect.

Replies and discussions regarding these posts must be taken off of this group either by direct e-mail to the seller or to the Kenwood QSO group as directed by the seller.

Buyers and sellers are on their own. The TS-520_820_530_830 Yahoo Group, its owners, moderators, or members other than the seller hold no responsibility for the accuracy of the posts or the credibility of the seller or buyer.

We do not expect that members of this group will misrepresent or in any way cheat other members. At the moderators discretion, we may choose to ban any member from making further for sale posts, or ban the member from this group entirely if we believe his posts or transactions are not of the utmost integrity.

We ask that those who buy and sell equipment as a main business not post here. We will allow posts from members who occasionally restore and sell equipment.

We expect our members to use discretion. If excessive traffic
develops as a direct result of these postings, they may have to be
discontinued.

Walter Breining, N9WB

At 10:19 06/05/2009, you wrote:
>what is the posting of for sale or want to buy rules here again?
>i have to be a member of the group for a month before doing any kind
>of buying and selling posting? i was needing to know so i dont mess
>up here thank you all and 73s for now. kg6nxx jon in cali.
>

[Non-text portions of this message have been removed]

21169. Re: Using an SB200 on a TS520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-06 03:09:16 UTC
From: Joe McGerald
Topic: 21154 Message: 21169

Pin 5 to control the relay, pin 6 ALC. I would however strongly recommend a buffer such as the Ameritron ARB-704. They're only $60 and are good insurance. That's the way I am driving mine. I'm not driving it with the TS-520 at the moment, but I have in the past.

Good luck with it, and there is a great yahoo groups for Heathkit linears also. Lots of good info there on the SB-200.

73.
Joe
af6ni

--- In TS-520_820_530_830@yahoogroups.com, "jimmyz2k" <n2nxz@...> wrote:
>
> I apologize if this is already posted.I feel I have searched everywhere and get vague results.I would like to use an SB200 amp with my TS520SE.I have found an old tube which the socket pins fit perfectly on the Kenwood remote socket.This will work great for the cable I want to make.I need to know what pins for ALC and Ant relay on the amp go to on the TS520SE.I have the manual for both units,but still I am confused.I do not want to fry anything.Any help here would be appreciated.
> Jim,N2NXZ
>

21170. Re: [TS-520_820_530_830] Re: Swapping 6146 Finals on two TS-830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-06 04:08:38 UTC
From: Luis Estrella
Topic: 21160 Message: 21170

Kevin,
I have the SM-220 which can be used as a scope, although I only use it to monitor my voice.

The reason behind I want to swap the tubes is because the radio that have the RCA 6146A's is a radio I got on e-bay and its condition is not the greatest, it has been tempered. On the back panel there are extra holes which seems like there were switches installed at one point. My other radio is one that I had over ten years and is in very good condition, so I am just trying to bring it to its original state.
Neutralizing is something I would like to learn as I expect to keep my hybrid Kenwood radios as long as I maintain my interest in amateur radio (I been licensed since 1993) I search on YouTube hoping to find a video illustrating the process of neutralizing, but could not find one. If anyone knows of a good comprehensive step-by-step procedure please let me know.

Thanks,

Luis
KO6WW

--- On Tue, 5/5/09, Kevin Rea <kevinrea@antelecom.net> wrote:

From: Kevin Rea <kevinrea@...>
Subject: [TS-520_820_530_830] Re: Swapping 6146 Finals on two TS-830s
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, May 5, 2009, 5:51 PM

if you don't have an rf probe or a scope to neutralize the finals, you can use another set tuned to the same frequency and just adjust the capacitor for the weakest signal heard.

kevin
k6rea

[Non-text portions of this message have been removed]

21171. Re: Swapping 6146 Finals on two TS-830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-06 04:27:45 UTC
From: scott10k
Topic: 21160 Message: 21171

--- In TS-520_820_530_830@yahoogroups.com, Luis Estrella <ko6ww@...> wrote:
>
> Kevin,
> I have the SM-220 which can be used as a scope, although I only use it to monitor my voice.
> Â
> The reason behind I want to swap the tubes is because the radio that have the RCA 6146Aâ□□s is a radio I got on e-bay and its condition is not the greatest, it has been tempered. On the back panel there are extra holes which seems like there were switches installed at one point. My other radio is one that I had overÂ ten years and is in very good condition, so I am just trying to bring it to its original state.
> Neutralizing is something I would like to learn as I expect to keep my hybrid Kenwood radios as long as I maintain my interest in amateur radio (I been licensed since 1993) I search on YouTube hoping to find a video illustrating the process of neutralizing, but could not find one. If anyone knows of a good comprehensive step-by-step procedure please let me know.
> Â
> Thanks,
> Â
> Luis
> KO6WW

Luis,
Here is the best discussion I have seen on how to neutralize the finals. As stated in the manual, be extremely cautious due to the high voltage, and use an insulated screwdriver to adjust the neutralization capacitor.

http://groups.yahoo.com/group/TS-520_820_530_830/message/14374

Scott, N6CIC
>
> --- On Tue, 5/5/09, Kevin Rea <kevinrea@...> wrote:
>
> From: Kevin Rea <kevinrea@...>
> Subject: [TS-520_820_530_830] Re: Swapping 6146 Finals on two TS-830s
> To: TS-520_820_530_830@yahoogroups.com
> Date: Tuesday, May 5, 2009, 5:51 PM
>
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>
> if you don't have an rf probe or a scope to neutralize the finals, you can use another set tuned to the same frequency and just adjust the capacitor for the weakest signal heard.
>

> kevin
> k6rea
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> [Non-text portions of this message have been removed]
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21172. Re: grey send switch for the kenwood ts520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-06 05:58:33 UTC
From: Andrew
Topic: 21142 Message: 21172

I bought my last one from Kenwood in Sydney - have you tried them? - if not, could get one out of a wreck here if you like..
Andrew VK3BFA.

--- In TS-520_820_530_830@yahoogroups.com, "dellthorp" <dellthorp@...> kenwood ts 520s problem is the grey send switch on the front panel

21173. Noise on receive (was: new member)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-06 15:33:23 UTC
From: Ken Hunter
Topic: 64 Message: 21173

I might add that I've found that my wife's air cleaner/filter does emit RF radiation (mostly spectral noise) at certain parts of the bands. I notice this mainly on 20 meters and it can be "tuned through" IE. it is more prevalent on certain frequencies. I suspect that there is some RF "Hash" from an internal microprocessor.

I've also had an aquarium heater that gave me a "Buzzing sound" when the contacts were switching. This switching at times took 20-30 seconds to go from an open to a closed condition, all the while trashing the whole band. Don't forget the electric blanket controllers, anything with a thermostat, etc.

If your noise had been coming from the antenna, I'd suggest that you use bare wire rather than insulated, especially on a dipole. The nylon or similar insulation materials will generate quite a bit of static voltage as the wind blows. This static is discharged to the atmosphere from the ends of the antenna. This can be reduced somewhat if you terminate the end of the wire so that it is in a small loop (maybe 2 inch diameter) rather than a "pointed" end sticking out. Loop antennas, (those without a high impedance "end") are less prone to self generated noise.

Hope this helps.

Ken - KB7H

--- In TS-520_820_530_830@yahoogroups.com, "kj4icg_rick" <kj4icg@...> wrote:
>
> Hi guys...
>
> Thanks for the input...I have found that the noise disappears when the antenna is disconnected and that I can hear the calibrator on all bands.

21174. Re: Using an SB200 on a TS520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-07 00:37:43 UTC
From: jimmyz2k
Topic: 21154 Message: 21174

Joe,
Thanks for the info.I will sign up for that group now.I have already tested the amp,but there were issues.It is easier to post this link.The test was short but safe.I have already made up the cables for the 520.73
Link > http://www.freewebs.com/jimmzz91164/heathkitsb200.htm

Jim,N2NXZ

--- In TS-520_820_530_830@yahoogroups.com, "Joe McGerald" <astro_crazy@...> wrote:
>
> Pin 5 to control the relay, pin 6 ALC. I would however strongly recommend a buffer such as the Ameritron ARB-704. They're only $60 and are good insurance. That's the way I am driving mine. I'm not driving it with the TS-520 at the moment, but I have in the past.
>
> Good luck with it, and there is a great yahoo groups for Heathkit linears also. Lots of good info there on the SB-200.
>
> 73.
> Joe
> af6ni
>
> --- In TS-520_820_530_830@yahoogroups.com, "jimmyz2k" <n2nxz@> wrote:
> >
> > I apologize if this is already posted.I feel I have searched everywhere and get vague results.I would like to use an SB200 amp with my TS520SE.I have found an old tube which the socket pins fit perfectly on the Kenwood remote socket.This will work great for the cable I want to make.I need to know what pins for ALC and Ant relay on the amp go to on the TS520SE.I have the manual for both units,but still I am confused.I do not want to fry anything.Any help here would be appreciated.
> > Jim,N2NXZ
> >
>

21175. Plug Switch for CW

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-07 00:40:32 UTC
From: blacklabpupp
Topic: 21175 Message: 21175

I was asked tonight if it was necessary to move the plug on the bottom of the board when you install a CW filter. I cant remember if it is only to be moved if you use FSK or not. Does anyone know the answer right off. When useing a CW filter how far off is the dial when you use it. He told me after he installed the filter the center of the signal moved some. I have never noticed it becasue I never look at the freq I just tune up where I hear it. Gene

21176. Re: Plug Switch for CW

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-07 12:47:44 UTC
From: w5rkl
Topic: 21175 Message: 21176

Gene,

Each model has wiring or plug changes that must/should be made
when installing a CW filter. These changes are fully discussed
in the individual model's operators manual. The dial settings for
the different modes are also discussed in the operator's manual.
You can't go wrong by following the information contained in the
model's operating manual.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "blacklabpupp" <blacklabpupp@...> wrote:
>
> I was asked tonight if it was necessary to move the plug on the bottom of the board when you install a CW filter. I cant remember if it is only to be moved if you use FSK or not. Does anyone know the answer right off. When useing a CW filter how far off is the dial when you use it. He told me after he installed the filter the center of the signal moved some. I have never noticed it becasue I never look at the freq I just tune up where I hear it. Gene
>

21177. VFO shaft lubrication

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-07 15:18:17 UTC
From: scott10k
Topic: 21177 Message: 21177

I have my front panel off (TS-520S) in order to replace the dial lamps, and have a question about lubrication of the VFO shaft. Some past posts suggest the shaft should be lubricated, and other posts say it should not be lubricated. Any further advice on this?
Thanks,
Scott N6CIC

21178. Re: grey send switch for the kenwood ts520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-07 10:00:12 UTC
From: dellthorp
Topic: 21142 Message: 21178

--- In TS-520_820_530_830@yahoogroups.com, "Andrew" <vk3bfa@...> wrote:
>
> I bought my last one from Kenwood in Sydney - have you tried them? - if not, could get one out of a wreck here if you like..
> Andrew VK3BFA.
>
> --- In TS-520_820_530_830@yahoogroups.com, "dellthorp" <dellthorp@> kenwood ts 520s problem is the grey send switch on the front panel
>
No I never knew you could get these switches from kenwood ,but if you have spares it would be appreciated or if you have a wreck I am with paypal or I can deposit to your bank account

21179. Re: [TS-520_820_530_830] VFO shaft lubrication

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-07 16:02:36 UTC
From: martin
Topic: 21177 Message: 21179

Hi Scott. You may want to apply a tiny amount of light oil to the gears and shaft. I would use an ear swab. DO NOT spray any type of lubricant on! it will most likely get into places that it can cause problems. Be especially careful not to get any type of cleaner or lubricant on the circuit board or wires inside the VFO housing! This can cause the VFO to drift excessively, or other problems.

If the VFO knob turns easily and smoothly, I would not mess with it.

TTYL

scott10k wrote:
> I have my front panel off (TS-520S) in order to replace the dial
> lamps, and have a question about lubrication of the VFO shaft.
> Some past posts suggest the shaft should be lubricated, and other
> posts say it should not be lubricated. Any further advice on this?
> Thanks, Scott N6CIC
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

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www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

21180. Re: [TS-520_820_530_830] VFO shaft lubrication

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-07 16:41:55 UTC
From: Gordon JC Pearce
Topic: 21177 Message: 21180

On Thu, 2009-05-07 at 11:02 -0500, martin wrote:

> If the VFO knob turns easily and smoothly, I would not mess with it.

Just to add to that, when I got my TS-520 the VFO knob was quite notchy when turned - to the extent that in some positions it was almost like it had 2.5kHz channels! I did contemplate cleaning and oiling the very fine gears with something like clock oil, but found that backing off the knurled brass nut holding the shaft a tiny bit improved things immensely. It has a tapered flange that presses on a tiny ball-race, and (like all adjustable taper bearings) if it's overtightened will exert an enormous pressure on the bearings, making them stiff to turn.

Gordon

21181. Re: [TS-520_820_530_830] Swapping 6146 Finals on two TS-830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-08 04:42:50 UTC
From: Walter A. Breining
Topic: 21160 Message: 21181

You will have to neutralize them. The difference between 120 and 140 watts is so minimal that you would never tell the difference under any conditions.

I would recommend the ain't broke don't fix it approach.

Vy 73, Walt N9WB

----- Original Message -----
From: ko6ww
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, May 05, 2009 2:37 PM
Subject: [TS-520_820_530_830] Swapping 6146 Finals on two TS-830s

Hello Group,
I have two TS-830, one which seems to have been tempered (Chassis holes) and a second one unmolested. The first have the RCA 6146A which measure about 140W the second rig has the Sylvania 9146W which measure about 120W.

I want to swap them, but don't know if I need to neutralize them (Which I don't know how) before I proceed.

Any advice will be well taken.

Cheers,
KO6WW

[Non-text portions of this message have been removed]

21182. Re: Swapping 6146 Finals on two TS-830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-08 11:38:11 UTC
From: w5rkl
Topic: 21160 Message: 21182

I agree with Walt, a 20 watt difference is not going to be notice at the receiving end.

However, there is something wrong here. The maximum ICAS 2 tube rating for 6146As is 130 watts. The 830 with 6146A is pushing those 6146As too hard. I recommend reducing the maximum power output from the 830 with 6146As to 120 watts or less.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Walter A. Breining" <n9wb@...> wrote:
>
> You will have to neutralize them. The difference between 120 and 140 watts is so minimal that you would never tell the difference under any conditions.
>
> I would recommend the ain't broke don't fix it approach.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: ko6ww
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, May 05, 2009 2:37 PM
> Subject: [TS-520_820_530_830] Swapping 6146 Finals on two TS-830s
>
>
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>
>
> Hello Group,
> I have two TS-830, one which seems to have been tempered (Chassis holes) and a second one unmolested. The first have the RCA 6146A which measure about 140W the second rig has the Sylvania 9146W which measure about 120W.
>
> I want to swap them, but don't know if I need to neutralize them (Which I don't know how) before I proceed.
>
> Any advice will be well taken.
>
> Cheers,
> KO6WW
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

21183. Re: [TS-520_820_530_830] Re: Swapping 6146 Finals on two TS-830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-08 18:00:03 UTC
From: martin
Topic: 21160 Message: 21183

I have ti agree with Mike and Walt. The difference between 100 watts
and 140 wats will not be noticeable at the receiving end, and pushing
the tubes too hard will significantly shorten their life.

TTYL

w5rkl wrote:
> I agree with Walt, a 20 watt difference is not going to be notice at the receiving end.
>
> However, there is something wrong here. The maximum ICAS 2 tube rating for 6146As is 130 watts. The 830 with 6146A is pushing those 6146As too hard. I recommend reducing the maximum power output from the 830 with 6146As to 120 watts or less.
>
> Mike W5RKL

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

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"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

21184. Restricted and Distorted TX SSB Audio

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-08 18:54:11 UTC
From: Gordon
Topic: 21184 Message: 21184

I have a TS-180S here that is giving me a hard time. I know it is not an 830, but the circuitry is very similar other then the Solid State finals. The CW output is clean and pure, but the TX SSB Audio is Horrible. It is all restricted and Distorted. I have checked the MC-60 Mic on the 830 and it works Great. So it is not the Mic. I have checked the voltages on the first 2 Mic amps and they are exactly as they should be. Any suggestions where to go next?

Thanks,
Gordon

21185. Re: [TS-520_820_530_830] Re: Swapping 6146 Finals on two TS-830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-08 18:51:44 UTC
From: Gordon JC Pearce
Topic: 21160 Message: 21185

On Fri, 2009-05-08 at 13:00 -0500, martin wrote:
> I have ti agree with Mike and Walt. The difference between 100 watts
> and 140 wats will not be noticeable at the receiving end, and pushing
> the tubes too hard will significantly shorten their life.

At that, you'd struggle to see a difference between 140 watts and *40*
watts...

Gordon

21186. Re: Swapping 6146 Finals on two TS-830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-08 23:58:52 UTC
From: scott10k
Topic: 21160 Message: 21186

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce <gordon@...> wrote:
>
> On Fri, 2009-05-08 at 13:00 -0500, martin wrote:
> > I have ti agree with Mike and Walt. The difference between 100 watts
> > and 140 wats will not be noticeable at the receiving end, and pushing
> > the tubes too hard will significantly shorten their life.
>
> At that, you'd struggle to see a difference between 140 watts and *40*
> watts...
>
> Gordon
>
I agree with Gordon and the others-it is not worth the trouble to swap the tubes and you may shorten the tubes life. Since the first rig was obviously modified, I would be concerned that modifications were made to drive the tubes too hard. I would stick with the unmodified 830S until I understood the changes to the first unit.
73s, Scott, N6CIC

21187. Re: [TS-520_820_530_830] Re: Swapping 6146 Finals on two TS-830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-09 00:40:20 UTC
From: Gordon JC Pearce
Topic: 21160 Message: 21187

On Fri, 2009-05-08 at 23:58 +0000, scott10k wrote:
> --- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce <gordon@...> wrote:
> >
> > On Fri, 2009-05-08 at 13:00 -0500, martin wrote:
> > > I have ti agree with Mike and Walt. The difference between 100 watts
> > > and 140 wats will not be noticeable at the receiving end, and pushing
> > > the tubes too hard will significantly shorten their life.
> >
> > At that, you'd struggle to see a difference between 140 watts and *40*
> > watts...
> >
> > Gordon
> >
> I agree with Gordon and the others-it is not worth the trouble to swap
> the tubes and you may shorten the tubes life.

In all seriousness, power isn't that important until you're talking orders of magnitude more power.

I have - as some may know, and here I undoubtedly invite the catcalls from the peanut gallery ("Got it off a cornflakes packet!") - a UK Foundation licence, which has a power limit of 10W on all bands except 136kHz. Now I can fire up my transmitter at 10W on 7MHz and see the signal on websdr - http://websdr.ewi.utwente.nl:8901/ - pretty clearly showing up as a bright line. I can get my mate with an Intermediate licence (hello, 2M0DIQ) to crank it up to 40W, and the bright line doesn't get a hell of a lot brighter, unless the conditions are very poor. If the band is closed, then no amount of power is going to make the trip from IO75TV to JO32KF, no matter how hard you try. If the band is open, I can show up in the waterfall with less than 5 watts. Power isn't everything.

A few people have mentioned having seriously high output power from their TS-[58][23]0 rigs. I shudder to think what the spectrum must be like with more than about 100W out - they must be clipping like blazes! If you're running much more than probably about 120W then you must be well beyond the linear region of the amp. You're certainly getting pretty close to what the HT supply can deliver. You might very well be using the world's most over-engineered fuzzbox...

Gordon MM3YEQ

21188. Re: [TS-520_820_530_830] Re: Swapping 6146 Finals on two TS-830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-09 05:26:01 UTC
From: martin
Topic: 21160 Message: 21188

Hi Gordon. What I learned many years ago in electronics school is that to increase your signal by 1 s-unit at the receiving send, you must transmit with 4 times the power.

For example. Say that you transmit with 1 watt and your friend has an S-1 signal on you. To give you friend an S-2 signal, you need to increase power to 4 watts. For an S-3 signal, 16 watts. For an S-4 signal, 64 watts, etc...

In my experience as an Amateur Radio operator, I have found that this holds true. I have also found that improving your antenna(s) is a better way to improve your signal than using an amplifier. The difference between 200 watts PEP (the peak wattage that most radios produce in SSB mode) and 1500 watts PEP (the maximum power output allowed for U.S. Amateurs who hold a General class or higher license) is about 1.5 S-units.

Gordon JC Pearce wrote:

>> I agree with Gordon and the others-it is not worth the trouble to
>> swap the tubes and you may shorten the tubes life.
>
> In all seriousness, power isn't that important until you're talking
> orders of magnitude more power.

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at http://www.defectivebydesign.org/what_is_drm"

21189. Power, aerials and getting out - was Re: [TS-520_820_530_830] Re: Swapping 6146 Finals on two TS-830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-09 08:49:54 UTC
From: Gordon JC Pearce
Topic: 21160 Message: 21189

On Sat, 2009-05-09 at 00:26 -0500, martin wrote:
> Hi Gordon. What I learned many years ago in electronics school is
> that to increase your signal by 1 s-unit at the receiving send, you
> must transmit with 4 times the power.

Correct. Scary, isn't it? You end up needing a lot of power to go not much further...

> In my experience as an Amateur Radio operator, I have found that this
> holds true. I have also found that improving your antenna(s) is a
> better way to improve your signal than using an amplifier. The
> difference between 200 watts PEP (the peak wattage that most radios
> produce in SSB mode) and 1500 watts PEP (the maximum power output
> allowed for U.S. Amateurs who hold a General class or higher license)
> is about 1.5 S-units.

Exactly. One of the things I've noticed about the cross-pond QSOs I've had is that the people who I hear really well and who hear me are all using horking great 20m beams. If they're running the full-fat 1500W into it, then here in IO75TV with a wire dipole significantly less than a quarter wavelength off the ground and all the usual clatter and hash from cable boxes, wireless routers etc. then they are often S9+30, and my 10W is getting me reports of 5/6 or 5/6 over there. Good aerials work well on receive, too. You don't want to be a shouty deaf guy, do you?

High on my list of priorities for moving house is a garden big enough to put up an 80m dipole. The garden I have now is just too small for that. "Why don't you use a G5RV, Gordon?" Because - no disrespect to Louis Varney - it just isn't that great. By being a compromise to work on all bands, it doesn't work terribly well on any of them. On the lower bands, most of the RF ends up rattling up and down the feedline and you put out a perfect signal into next door's baby monitor and very little into the sky. There are other kinds of compact antennas out there, some of which look very hard to make repeatably. A good sign that something is too good to be true is a phrase somewhere on the designer's website saying "I don't know how it works, but it does!" - mmm, yeah. Okay. If you say so.

Getting back to the transmitters and pushing 120 or 140 or even 160 watts - do these people run their cars at wide open throttle for long drives? I wouldn't have thought so. I can't even see how the power supply can reliably push that amount of power. I'd be really interested to see the spectrum from one of these hybrid rigs when it's putting out 160W - but not mine, okay? 6146es are expensive these days.

Gordon

21190. TS-830S Fan operation?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-10 19:15:59 UTC
From: wohtex
Topic: 21190 Message: 21190

Couple of days ago I set my TS-830S back up and have been using it only on receive. Last night I was behind the desk and noticed the cooling fan wasn't running, radio felt cool but my TS-520S fan runs full time. Couldn't find this addressed in the manual or searching the group, does the TS-830S have temperature relay to turn it on when needed or is it supposed to run when the rig is turned on like on the 520? Thought I'd ask before I opened it up and started looking.

73
Bill/N5CCQ

21191. Re: [TS-520_820_530_830] TS-830S Fan operation?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-10 19:51:17 UTC
From: Ken Winterling
Topic: 21190 Message: 21191

Bill,

The fan on the TS-830 receives power as soon as the power switch is turned on. It runs directly from a 100V tap of the power transformer and is not fused. There isn't any thermostat or relay involved.

Ken, WA2LBI

On Sun, May 10, 2009 at 15:15, wohtex <wohtex@...> wrote:

> Couple of days ago I set my TS-830S back up and have been using it only on
> receive. Last night I was behind the desk and noticed the cooling fan
> wasn't running, radio felt cool but my TS-520S fan runs full time. Couldn't
> find this addressed in the manual or searching the group, does the TS-830S
> have temperature relay to turn it on when needed or is it supposed to run
> when the rig is turned on like on the 520? Thought I'd ask before I opened
> it up and started looking.
>
> 73
> Bill/N5CCQ
>
>
>

[Non-text portions of this message have been removed]

21192. Re: [TS-520_820_530_830] TS-830S Fan operation?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-10 19:58:59 UTC
From: Gmail - Kevin, Natalia, Stacey & Rochelle
Topic: 21190 Message: 21192

Hi Bill,

I only had my 830 on last night in RX only, and the fan was busy going round and round.
I would guess there is something a miss here.

Kevin, ZL1KFM.

----- Original Message -----
From: wohtex
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, May 11, 2009 7:15 AM
Subject: [TS-520_820_530_830] TS-830S Fan operation?

Couple of days ago I set my TS-830S back up and have been using it only on receive. Last night I was behind the desk and noticed the cooling fan wasn't running, radio felt cool but my TS-520S fan runs full time. Couldn't find this addressed in the manual or searching the group, does the TS-830S have temperature relay to turn it on when needed or is it supposed to run when the rig is turned on like on the 520? Thought I'd ask before I opened it up and started looking.

73
Bill/N5CCQ

[Non-text portions of this message have been removed]

21193. Re: Power, aerials and getting out - was Re: [TS-520_820_530_830] Re: Swapping 6146 Finals on two TS-830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-10 20:34:50 UTC
From: richard
Topic: 21160 Message: 21193

```
On Sat, 09 May 2009 09:49:54 +0100
Gordon JC Pearce <gordon@...> wrote: it works, but it does!" - mmm, yeah. Okay. If you say
so.
>
> Getting back to the transmitters and pushing 120 or 140 or even 160
> watts - do these people run their cars at wide open throttle for long
> drives? I wouldn't have thought so. I can't even see how the power
> supply can reliably push that amount of power. I'd be really
> interested to see the spectrum from one of these hybrid rigs when
> it's putting out 160W - but not mine, okay? 6146es are expensive
> these days.
>
> Gordon
>
we are very lucky in the UK , the way we can measure power.
26dBW at the feed point. Moreover, a 1dB increase in power can and
frequently does make the difference between exchanging reports and not.
But if your going to push valves as hard as possible, you need to make
sure they maintain the HT and most importantly the screen grid voltage.
You also need to keep them cool.
IMO the Kenwood hybrids are unable to do all three when pushed hard.
If you really want to run power get on the proper bands and use that
big passive repeater with a path loss of 270 dB.

--
Best wishes

Richard Bown

##########################################################################################
Registered Linux User 36561
OS: Mandriva 2009.1 Spring Powerpack on an AMD Dual Athlon 64 +4400: 8
GB RAM DDR2 Ham Call: G8JVM , QRA IO82SP, Interests Microwave 1.3
GHz,2.3 GHz & 5.7GHz & 10 GHz
##########################################################################################
```

21194. Re: Power, aerials and getting out - was Re: [TS-520_820_530_830] Re: Swapping 6146 Finals on two TS-830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-10 21:06:25 UTC
From: Gordon JC Pearce
Topic: 21160 Message: 21194

On Sun, 2009-05-10 at 21:34 +0100, richard wrote:

> we are very lucky in the UK , the way we can measure power.
> 26dBW at the feed point. Moreover, a 1dB increase in power can and

This is a good point. Perhaps someone whose beard is greyer than mine can explain how you actually measure the power at the feedpoint. My power meter is quite small, quite heavy and also probably pretty fragile so the idea of actually mounting it at the feedpoint and transmitting didn't seem like a great idea. That, and the feedpoint is about the height of a second-storey window so it's too far away to read anyway.

What I did was rolled out the cable on the ground, hung the power meter and a dummy load off the end, and fed varying amounts of power in while swapping the meter from the load end to the transmitter end, on each of the bands. It turns out that 50' of crappy el-cheapo RG58 only exhibits about .5dB loss at 3.5MHz, and about 1.2dB of loss at 28MHz, so I work out how much power to feed in at the bottom to get the right power out.

> frequently does make the difference between exchanging reports and not.
> But if your going to push valves as hard as possible, you need to make
> sure they maintain the HT and most importantly the screen grid voltage.

This is something that the TS-520 at least does pretty well, considering. I can't vouch for what happens when you push them extremely hard, but mine puts out a measured 105W at 210mA, 850V (using a real meter, not the rig's built-in one). The PA and driver valves are new-old-stock.

> You also need to keep them cool.
> IMO the Kenwood hybrids are unable to do all three when pushed hard.

At full power, the output cage does get pretty warm. I suppose the trade-off is having an almost silent fan that doesn't shift as much air, or having something that sounds like a Rolls-Royce Trent in full cry (step forward, Mrs Gordonjcp's combined laptop/space heater/hoverboard).

> If you really want to run power get on the proper bands and use that
> big passive repeater with a path loss of 270 dB.

By the time the sunspots are back I'll have moved to somewhere I can throw a decent amount of wire up. My current back garden is just the right size for an unobtrusive 20m dipole.

Gordon

21195. Re: [TS-520_820_530_830] Re: Swapping 6146 Finals on two TS-830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-10 21:45:28 UTC
From: Dave and Loraine
Topic: 21160 Message: 21195

Martin,

I'm sure you meant 100W PEP. (200W input power)

73 Dave f4eyk

21196. Re: [TS-520_820_530_830] Re: Swapping 6146 Finals on two TS-830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-11 02:18:44 UTC
From: martin
Topic: 21160 Message: 21196

Hi Dave. No, I meant what I said, 200 watts PEP in SSB mode. Power in SSB mode is measured as Peak Envelope Power. This is harder to measure than a signal where a carrier is present, which is measured in Watts (RMS). Most HF radios put out approximately 200 wattsPEP in SSB mode, and 100 watts in CW (and/or FM mode), 40-60 watts AM mode.

TTYL

Dave and Loraine wrote:
> Martin,
>
> I'm sure you meant 100W PEP. (200W input power)
>
> 73 Dave f4eyk

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at http://www.defectivebydesign.org/what_is_drm"

21197. Re: TS-830S Fan operation?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-11 14:01:23 UTC
From: wohtex
Topic: 21190 Message: 21197

O.K. thanks for the replies guys, I'll pull the covers off of it tonight and take a look see, hopefully its just a bad wire, if not I'll start looking for a replacement fan.

73
Bill/N5CCQ

21198. Re: [TS-520_820_530_830] Re: TS-830S Fan operation?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-11 14:24:33 UTC
From: Gordon JC Pearce
Topic: 21190 Message: 21198

On Mon, 2009-05-11 at 14:01 +0000, wohtex wrote:
> O.K. thanks for the replies guys, I'll pull the covers off of it
> tonight and take a look see, hopefully its just a bad wire, if not
> I'll start looking for a replacement fan.
>

The bearings are probably gummed with 30-odd-year-old oil. Carefully
cleaning and lubricating them with sewing machine oil might be a good
start. Don't just scoot them with WD-40.

Gordon

21199. Re: [TS-520_820_530_830] Re: Swapping 6146 Finals on two TS-830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-11 22:30:17 UTC
From: Dave and Loraine
Topic: 21160 Message: 21199

Hi Martin,
Operating Manual specifies :
"PLATE POWER INPUT..... 200w PEP for SSB operation".

800V x 250mA(max. on voice peaks) = 200W PEP input power.
200W PEP input with Class AB1 at 60% efficiency gives 120W PEP output on a good day.

See http://www.vk1od.net/measurement/SsbTxPower/MeasureSSBTxPower.htm
for ITU definitions then page-down for a photo comparison of measurement methods.

Cheers
Dave f4eyk

21200. Re: TS-830S Fan operation?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-12 01:06:36 UTC
From: Bob Mansker
Topic: 21190 Message: 21200

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce <gordon@...> wrote:
>
> On Mon, 2009-05-11 at 14:01 +0000, wohtex wrote:
> > O.K. thanks for the replies guys, I'll pull the covers off of it
> > tonight and take a look see, hopefully its just a bad wire, if not
> > I'll start looking for a replacement fan.
> >
>
> The bearings are probably gummed with 30-odd-year-old oil. Carefully
> cleaning and lubricating them with sewing machine oil might be a good
> start. Don't just scoot them with WD-40.
>
> Gordon
>
****
Easy to take the fan apart...
If the armature shafts are all gummed up then I use some 600 wet sandpaper with synthetic oil on the sandpaper to polish up the shafts....
You can also roll up the wet sandpaper & turn in the brass sleeve bearings...
I then lube with synthetic oil (Amsoil) & put back together...
If it looks like it really got HOT then you might want to replace the fan....
I have the fan in nice condition for $22.00 plus shipping...
Let us know how it turns out..
Bob

21201. Digital Display TS-820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-13 11:34:47 UTC
From: trippkj4bkd
Topic: 21201 Message: 21201

Hello, To all that are haveing problems with digital display.

I think I have solved mine. My display was drifting constanly on all

bands and it got to the point where only one digit a nine or zero was

displayed. And sometimes it would display 19.000 no matter where the

VFO was turned. I thought for sure I needed to find a used DG-1 unit.

I got frustrated and removed the DG-1 unit from the chasis. Removed the

screws from the metal case that holds the lid on the DG-1. There are

two circuit boards inside. One of mine had about 5 solder joints that

looked questionable. There was an orange colored corrosion on the solder

joints that sort of crumbled when scraped with a small screwdirver.

Well I desoldered and resoldered thees joints and now the display is

working perfectly on all bands no drifting. Hope this helps others

having simular problems.

Tripp
KJ4BKD

21202. Re: [TS-520_820_530_830] Digital Display TS-820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-13 16:59:50 UTC
From: Harlan
Topic: 21201 Message: 21202

Are you aware that the marketplace ads with your email, are proven scams?

----- Original Message -----
From: trippkj4bkd
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, May 13, 2009 7:34 AM
Subject: [TS-520_820_530_830] Digital Display TS-820s

Hello, To all that are haveing problems with digital display.

I think I have solved mine. My display was drifting constanly on all

bands and it got to the point where only one digit a nine or zero was

displayed. And sometimes it would display 19.000 no matter where the

VFO was turned. I thought for sure I needed to find a used DG-1 unit.

I got frustrated and removed the DG-1 unit from the chasis. Removed the

screws from the metal case that holds the lid on the DG-1. There are

two circuit boards inside. One of mine had about 5 solder joints that

looked questionable. There was an orange colored corrosion on the solder

joints that sort of crumbled when scraped with a small screwdirver.

Well I desoldered and resoldered thees joints and now the display is

working perfectly on all bands no drifting. Hope this helps others

having simular problems.

Tripp
KJ4BKD

[Non-text portions of this message have been removed]

21203. Re: Digital Display TS-820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-14 22:10:58 UTC
From: w5rkl
Topic: 21201 Message: 21203

In addition to your findings, DG-1 failures can also be traced to dirty contacts between the Counter and Counter Mixer inside the DG-1's metal enclosure. DG1 failures are not limited to intermittent displays but failures elsewhere as well. Additional digital display failures can be contributed to one or more of the following:

1. Unlocked PLL.

2. Failure of the 9VDC supply.

3. Failure of the 14VDC supply which causes item 2 failure to occur.

4. VFO plug not plugged into the rear of the VFO.

5. Jumper plug not inserted in the rear 9 pin socket when the VFO-820 is not used. If the jumper plug is not available, a missing wire jumper between pins 8 and 9 on the rear 9 pin socket.

6. Broken wires at either end of the 9 pin interconnecting cable between the remote VFO-820 and the 820 itself.

7. Failure to use the jumper plug or, in the absence of the jumper plug, a simple wire jumper between the rear 9 pin socket, pins 8 and 9.

8. Broken wire or very dirty/oily/corroided contacts on the FUNCTION switch wafers.

9. Bad digital display tube or broken interconnecting wires from the display tube board and the Counter Mixer connection.

The most common source of digital display failure is item 7.

Erratic digital display coupled with instability in VFO tuning is not caused by a failure with DG-1 digital display but rather by a very dirty/corroded VFO variable capacitor shaft to frame connection. Corrective action is to remove the side panel on the internal or external VFO, which ever one is causing the instability, and give the shaft to frame connection a shot of contact cleaner followed by rotating the VFO knob a number of times throughout its travel. Once this is done, use canned air to blow away any excessive cleaner residue and dirt dislodged during the cleaning process then replace the VFO's side panel.

Drifting digital displays that shows up as a slow increase/decrease in frequency is not caused by a failure in the DG-1 but rather a drifting VFO. The VFO in the TS-820/TS-820S is powered by the 9VDC supply and changes, either up or down, in the 9VDC supply, affects the VFO's stability resulting in a change in the VFO's output frequency which affects the digital display.

In most cases, not all, instability in the 9VDC supply can be traced to aging D5 and Q7 on the AF-AVR UNIT. Replacing these components will significantly improve the VFO instability resulting is less drift in the VFO and the DG-1 digital display.

These are some of the common failures I have experienced with my TS-820S and DG-1 display. Your failures may include some and possibly other failures as well such as failures in the CAR1 and/or CAR2 circuits.

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "trippkj4bkd" <thomasenglish3@...> wrote:
>
> Hello, To all that are haveing problems with digital display.
>
> I think I have solved mine. My display was drifting constanly on all
>
> bands and it got to the point where only one digit a nine or zero was
>
> displayed. And sometimes it would display 19.000 no matter where the
>
> VFO was turned. I thought for sure I needed to find a used DG-1 unit.
>
> I got frustrated and removed the DG-1 unit from the chasis. Removed the
>
> screws from the metal case that holds the lid on the DG-1. There are
>
> two circuit boards inside. One of mine had about 5 solder joints that
>
> looked questionable. There was an orange colored corrosion on the solder
>
> joints that sort of crumbled when scraped with a small screwdirver.
>
> Well I desoldered and resoldered thees joints and now the display is
>
> working perfectly on all bands no drifting. Hope this helps others
>
> having simular problems.
>
> Tripp
> KJ4BKD
>

21204. Re: Digital Display TS-820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-14 22:59:45 UTC
From: trippkj4bkd
Topic: 21201 Message: 21204

--- In TS-520_820_530_830@yahoogroups.com, "Harlan" <hbloom@...> wrote:
>
> Are you aware that the marketplace ads with your email, are proven scams?
>
> Harlan are you saying that my post had marketplace ads if so I was not aware of any. Or were you just saying to all in generall look out for those scams. If so I appreciate the warning. >
>
>
>
>
> [Non-text portions of this message have been removed]
>

21205. Re: Digital Display TS-820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-14 23:15:45 UTC
From: trippkj4bkd
Topic: 21201 Message: 21205

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> In addition to your findings, DG-1 failures can also be traced to dirty contacts between the Counter and Counter Mixer inside the DG-1's metal enclosure. DG1 failures are not limited to intermittent displays but failures elsewhere as well. Additional digital display failures can be contributed to one or more of the following:
>
> 1. Unlocked PLL.
>
> 2. Failure of the 9VDC supply.
>
> 3. Failure of the 14VDC supply which causes item 2 failure to occur.
>
> 4. VFO plug not plugged into the rear of the VFO.
>
> 5. Jumper plug not inserted in the rear 9 pin socket when the VFO-820 is not used. If the jumper plug is not available, a missing wire jumper between pins 8 and 9 on the rear 9 pin socket.
>
> 6. Broken wires at either end of the 9 pin interconnecting cable between the remote VFO-820 and the 820 itself.
>
> 7. Failure to use the jumper plug or, in the absence of the jumper plug, a simple wire jumper between the rear 9 pin socket, pins 8 and 9.
>
> 8. Broken wire or very dirty/oily/corroided contacts on the FUNCTION switch wafers.
>
> 9. Bad digital display tube or broken interconnecting wires from the display tube board and the Counter Mixer connection.
>
> The most common source of digital display failure is item 7.
>
> Erratic digital display coupled with instability in VFO tuning is not caused by a failure with DG-1 digital display but rather by a very dirty/corroded VFO variable capacitor shaft to frame connection. Corrective action is to remove the side panel on the internal or external VFO, which ever one is causing the instability, and give the shaft to frame connection a shot of contact cleaner followed by rotating the VFO knob a number of times throughout its travel. Once this is done, use canned air to blow away any excessive cleaner residue and dirt dislodged during the cleaning process then replace the VFO's side panel.
>
> Drifting digital displays that shows up as a slow increase/decrease in frequency is not caused by a failure in the DG-1 but rather a drifting VFO. The VFO in the TS-820/TS-820S is powered by the 9VDC supply and changes, either up or down, in the 9VDC supply, affects the VFO's stability resulting in a change in the VFO's output frequency which affects the digital display.

>
> In most cases, not all, instability in the 9VDC supply can be traced to aging D5 and Q7 on the AF-AVR UNIT. Replacing these components will significantly improve the VFO instability resulting is less drift in the VFO and the DG-1 digital display.
>
> These are some of the common failures I have experienced with my TS-820S and DG-1 display. Your failures may include some and possibly other failures as well such as failures in the CAR1 and/or CAR2 circuits.
>
> 73
> Mike W5RKL
>
> --- Hey Mike I really appreciate your post because my victory was short lived with my display, as it began exibiting some of the other problems that you have mentioned. Although it is working much better than it was before. However when makeing a voltage adjustment as described hear. "RFI 3.3 volt adjustment on circuit board (X49-1080-00) adjusting VR1 for 3.3 volts. I turned VR2 by mistake and did not reallize right away that I had turned the wrong one. Do you know what that voltage for VR2 should be measured at pin 5. That may have cause my error with my display. Just a thought.

Tripp
KJ4BKD

21206. Re: [TS-520_820_530_830] Re: Digital Display TS-820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-14 23:49:12 UTC
From: Lou Blasco
Topic: 21201 Message: 21206

Hi Tripp,

VR2 is part of the RIT circuit and is used to adjust the zero point
for the control. Follow the RIT alignment procedure in the service
manual and you'll be fine.

Lou
VK3ALB

At 09:15 15/05/2009, you wrote:

> > --- Hey Mike I really appreciate your post because my victory was
> short lived with my display, as it began exibiting some of the
> other problems that you have mentioned. Although it is working much
> better than it was before. However when makeing a voltage
> adjustment as described hear. "RFI 3.3 volt adjustment on circuit
> board (X49-1080-00) adjusting VR1 for 3.3 volts. I turned VR2 by
> mistake and did not reallize right away that I had turned the wrong
> one. Do you know what that voltage for VR2 should be measured at
> pin 5. That may have cause my error with my display. Just a thought.
>
>Tripp
>KJ4BKD

21207. Re: [TS-520_820_530_830] TS-820S, R-820, MC-50 For Sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-15 03:40:30 UTC
From: Ron
Topic: 8317 Message: 21207

Hi all,

I'm downsizing my shack so must sell my treasured Kenwood 820 line.

The TS-820S is very clean inside and out, with very little scratches or blemishes. The readout is bright.
I have cleaned all connectors, switches, pots, VFO, and oiled the fan. The output is 100 watts on 3.5 MHz with the original finals. This radio has had very low usage and is in excellent condition. No issues.
Comes with operating manual on CD and paper service manual $325 + shipping.

The R-820 is also very clean, with the following filters: Inrad first I.F. Filter is 400 Hz, and Inrad 2nd I.F. Filter is 400 Hz for CW, YG-88WS filter for SSB and the YG-88A 6 KHZ filter for A.M. and has VBT. The R-820 covers from 160 to 10 meters (no WARC) plus the 16, 19, 25,31 and 49 meter band for commercial SW broadcast. I have cleaned all connections switches and pots about one year ago. The condition is excellent with no issues, readout is bright. Comes with paper copy of operating manual and service manual $450 + shipping, (There were not a lot of these made)

MC-50 mic with 4 pin connector in excellent condition. $55 + shipping.

Thanks for looking! Photos available of all items. Please contact me off list.

-73-

Ron WB9BDZ

[Non-text portions of this message have been removed]

21208. Re: Digital Display TS-820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-15 11:12:21 UTC
From: w5rkl
Topic: 21201 Message: 21208

Hello Tripp,

Lou's correct.

Before you perform the 3.3VDC adjustment on the AF-AVR UNIT, make sure you adjust the 9VDC first.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Lou Blasco <radio@...> wrote:
>
> Hi Tripp,
>
> VR2 is part of the RIT circuit and is used to adjust the zero point
> for the control. Follow the RIT alignment procedure in the service
> manual and you'll be fine.
>
> Lou
> VK3ALB
>
> At 09:15 15/05/2009, you wrote:
>
>
>
> > > --- Hey Mike I really appreciate your post because my victory was
> > short lived with my display, as it began exibiting some of the
> > other problems that you have mentioned. Although it is working much
> > better than it was before. However when makeing a voltage
> > adjustment as described hear. "RFI 3.3 volt adjustment on circuit
> > board (X49-1080-00) adjusting VR1 for 3.3 volts. I turned VR2 by
> > mistake and did not reallize right away that I had turned the wrong
> > one. Do you know what that voltage for VR2 should be measured at
> > pin 5. That may have cause my error with my display. Just a thought.
> >
> >Tripp
> >KJ4BKD
>

21209. Re: [TS-520_820_530_830] TS-820S, R-820, MC-50 For Sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-15 14:36:40 UTC
From: Ron
Topic: 8317 Message: 21209

Hi group,

I have sold all the equipment that I had listed for sale. Thanks for looking.

-73-

Ron WB9BDZ

[Non-text portions of this message have been removed]

21210. DG-1 Mixer Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-15 18:24:56 UTC
From: jsloss
Topic: 21210 Message: 21210

This is a long shot - but.... Does anyone have a good Mixer board from a TS-820S DG-1 display?

Thank you,

Joe k7mks

[Non-text portions of this message have been removed]

21211. TS-520SE ???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-16 00:30:07 UTC
From: Mike-K5VSE
Topic: 21211 Message: 21211

Good afternoon all you guys and gals,

I have a strange question, so please bear with me on this one.

I had a fellow bring his 520SE over because he saw sparks and smoke. After opening it up, I found under the final tubes a PC board. There appear to be two burned resistors I think. One could be a diode.

Here is the only way I can describe it.

One is connected to a point on the board marked "FG" and goes to an unmarked pad.

The second one goes to a pad marked "IPM" and the other end is connected to one of the 6146 tube pins, which is jumped to the same pin on the second tube.

There are no numbers on the board so I am unable to identify these parts. They were blown because of the final tubes being shorted. (At least one was)

I downloaded one of the manuals online, but it has no PCB on it, only regular wiring for a set of finals.

Do any of you have any idea what I am looking at, or possibly what the values of these parts are?

Thanks for any assistance that might be offered.
Mike-K5VSE

21212. Re: TS-520SE ???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-16 00:35:04 UTC
From: Mike-K5VSE
Topic: 21211 Message: 21212

--- In TS-520_820_530_830@yahoogroups.com, "Mike-K5VSE" <k5vse@...> wrote:
>
> Good afternoon all you guys and gals,
>
> I have a strange question, so please bear with me on this one.
>
> I had a fellow bring his 520SE over because he saw sparks and smoke. After opening it up, I found under the final tubes a PC board. There appear to be two burned resistors I think. One could be a diode.
>
> Here is the only way I can describe it.
>
> One is connected to a point on the board marked "FG" and goes to an unmarked pad.
>
> The second one goes to a pad marked "IPM" and the other end is connected to one of the 6146 tube pins, which is jumped to the same pin on the second tube.
>
> There are no numbers on the board so I am unable to identify these parts. They were blown because of the final tubes being shorted. (At least one was)
>
> I downloaded one of the manuals online, but it has no PCB on it, only regular wiring for a set of finals.
>
> Do any of you have any idea what I am looking at, or possibly what the values of these parts are?
>
> Thanks for any assistance that might be offered.
> Mike-K5VSE

I forgot in the previous post, both the knobs for the NB and AGC are missing. If I get this rig up and running again, does anyone have these particular knobs? The switches are intact and working.

Mike-K5VSE
>

21213. Carrier Unit operation.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-16 03:43:32 UTC
From: Lou Blasco
Topic: 20373 Message: 21213

Hi All,

I have a 520 and 520S on the bench at the moment and I'm having some difficulty adjusting the carrier units. I've found that the CW crystal adjustment interacts with the USB crystal on both sets and just touching the can of the CW crystal can cause the USB crystal to stop oscillating briefly. Grounding the CW crystal case kills the USB oscillator. Happens on both sets. The other two crystal don't seem to affect the CW crystal or each other in the same way.

Other problem is that I can't get the CW crystal to oscillate at 3395Khz. Both seem to run best at 3394.2 KHz and I can't get either to pull up to 3395. On both sets the LSB USB crystals can be adjusted to the correct frequency. T1 is adjusted for max output, voltages are fine on both boards and the AVR unit has been adjusted correctly. I've replaced D1 to D4 on the carrier unit in the 520S just in case one of the diodes was leaky. The radios work fine and on air reports are great so I'm not sure if I have a "real" problem with these sets.

Comments?

Lou
VK3ALB

21214. Re: [TS-520_820_530_830] TS-520SE ???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-16 07:48:03 UTC
From: Gordon JC Pearce
Topic: 21211 Message: 21214

On Sat, 2009-05-16 at 00:30 +0000, Mike-K5VSE wrote:

> I downloaded one of the manuals online, but it has no PCB on it, only regular wiring for a set of finals.

The design of the finals is pretty much the same between all versions of the TS-[58][23]0 rigs. Start from the valve base and work your way out - no matter how the unit is constructed, the valve pins stay the same...

Gordon MM3YEQ

21215. Where to start

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-16 13:40:18 UTC
From: James Fogg
Topic: 21215 Message: 21215

My TS-530S has an intermittent annoying problem. The digital display will go blank, the indicator lights over the display (proc, etc.) will go dim and the receiver will go completely deaf (not even a noise floor). Changing the bandswitch (my first suspect) doesn't change anything.

If I whack the case with my hand it'll come back just fine.

I suspect a crusty connector or a cold solder joint, but I don't know where to start looking. Any suggestions?

--
James -

21216. Re: [TS-520_820_530_830] Where to start

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-16 13:57:17 UTC
From: Gordon JC Pearce
Topic: 21215 Message: 21216

On Sat, 2009-05-16 at 09:40 -0400, James Fogg wrote:
> My TS-530S has an intermittent annoying problem. The digital display will
> go blank, the indicator lights over the display (proc, etc.) will go dim
> and the receiver will go completely deaf (not even a noise floor).
> Changing the bandswitch (my first suspect) doesn't change anything.
>
> If I whack the case with my hand it'll come back just fine.
>
> I suspect a crusty connector or a cold solder joint, but I don't know
> where to start looking. Any suggestions?
>

Start at the power supply and work forwards, I'd say. Can you narrow it
down by tapping *gently* with a plastic screwdriver handle?

Gordon

21217. Re: [TS-520_820_530_830] TS-520SE ???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-16 16:30:05 UTC
From: Robert DROGOUL
Topic: 21211 Message: 21217

Hello Mike
You will find two details about TS820 who may reply to your question. You will find "FG" and "IPM" on the schematic ans the PC board picture so may be you will be able to solve your problem. The cathodes resistors generaly blow up with the shorted tube you had. They are 10 ohmd 1W.
Good luck
F5UL - Robert DROGOUL
Ref-Union - ARRL - NAQCC - Loc : JN35BV
Signataire de la Charte Union des Télégraphistes Francophones
http://utf.webamat.org

[Non-text portions of this message have been removed]

21218. Re: Where to start

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-16 17:15:31 UTC
From: w5rkl
Topic: 21215 Message: 21218

Hello Gordon,

You said the receiver goes dead when the problem occurs. I would bet the transmitter is also dead, no RF output, when the problem occurs. Remember, there are "common" circuits in the 530 that, if one or more of the common circuits fail, both transmit and receive functions will also fail.

The PLL Unit, IF Unit, VFO, RF Unit, AF Unit, and Counter Unit (digital display) are all powered from the 3.2VDC, 9VDC, and 12VDC LV supplies.

The "source" voltage for all 3 voltages is the "14VDC" supply. Consequently, a failure in the 14VDC supply will affect all 3 voltages. An intermittent short to ground in the 14VDC supply can easily cause the symptoms you are experiencing. When this occurs, both transmit and receive functions will also fail.

Therefore, I suspect a problem in the 14VDC supply on the Rectifier Unit.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce <gordon@...> wrote:
>
> On Sat, 2009-05-16 at 09:40 -0400, James Fogg wrote:
> > My TS-530S has an intermittent annoying problem. The digital display will
> > go blank, the indicator lights over the display (proc, etc.) will go dim
> > and the receiver will go completely deaf (not even a noise floor).
> > Changing the bandswitch (my first suspect) doesn't change anything.
> >
> > If I whack the case with my hand it'll come back just fine.
> >
> > I suspect a crusty connector or a cold solder joint, but I don't know
> > where to start looking. Any suggestions?
> >
>
> Start at the power supply and work forwards, I'd say. Can you narrow it
> down by tapping *gently* with a plastic screwdriver handle?
>
> Gordon
>

21219. Re: [TS-520_820_530_830] TS-520SE ???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-16 18:59:29 UTC
From: K5vse-Mike
Topic: 21211 Message: 21219

Thanks Robert,

Another fellow sent me a PDF picture of the board from an 820 and they appear to be exactly the same as the 520. The only thing he told me was that the resistors were 20 ohm. Now I need to determine just what resistor burned and find a parts list. I will go out to my shop and figure that out and make a further post.

Thanks to all who have offered help so far. It is greatly appreciated!

73,
Mike-K5Vse

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
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[Non-text portions of this message have been removed]

21220. Re: TS-830S Fan operation?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-16 20:57:42 UTC
From: wohtex
Topic: 21190 Message: 21220

I am embarrassed to say it was a lack of operator maintenance, a good cleaning and a light weight oil has it humming away. I have had the radio for a couple of years and even thou it has not been used extensively I should have paid more attention to basic maintenance. Thankfully I caught it before any damage was done.

73 to all have a great weekend
Bill/N5CCQ

21221. Re: TS-520SE ???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-16 21:04:00 UTC
From: w5rkl
Topic: 21211 Message: 21221

The "FG" designation means "FINAL GRID" and the "IPM" designation means final amplifier's "IP METER". The "IPM" meter connection measures the final tube's "cathode" current which is the same as the final tube's plate current.

The "FG" connection is where the final amplifier tube's bias voltage is applied (through the rear panels bias pot).

If one of the final tubes was shorted then that is most likely the reason one or both of the 10 ohm 1 watt resistor were damaged. Replace "both" resistors, not just one, even though one may appear to be OK. Metal Film resistors will work fine but do NOT increase the resistor's wattage. Replace both with 10 ohm 1 watt resistors. Do NOT increase the wattage of the replacement resistors!

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Robert DROGOUL" <f5ul@...> wrote:
>
> Hello Mike
> You will find two details about TS820 who may reply to your question. You will find "FG" and "IPM" on the schematic ans the PC board picture so may be you will be able to solve your problem. The cathodes resistors generaly blow up with the shorted tube you had. They are 10 ohmd 1W.
> Good luck
> F5UL - Robert DROGOUL
> Ref-Union - ARRL - NAQCC - Loc : JN35BV
> Signataire de la Charte Union des Télégraphistes Francophones
> http://utf.webamat.org
>
> [Non-text portions of this message have been removed]
>

21222. Re: [TS-520_820_530_830] Re: TS-520SE ???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-16 21:51:30 UTC
From: K5vse-Mike
Topic: 21211 Message: 21222

Hi Mike,

Thanks for the info. I just came back from my shop. I compared the 830 board that a fellow sent me a copy of and the existing 520 board. They are similar in some ways, but there are differences. The resistors you mentioned, in this particular rig are probably 1/4 watt or maybe 1/2 watt at most. They are burned to an open state. I went through all the resistors I have on hand, and could not find a pair of 10 resistors. Guess I'll order a few on Monday. There are a couple of others that look suspect that need to be looked at as well.

Have a great weekend es 73,
Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
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[Non-text portions of this message have been removed]

21223. Re: TS-520SE ???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-16 22:36:10 UTC
From: m j synowiec
Topic: 21211 Message: 21223

Hi Mike & All on the thread,

Mike, in case you are unaware of it there is a very good web page for hybrid owners that explains much & offers parts that are of high quality and mate with the Kenwood hybrids. It is run by Ken Kemski & is

www.K4EAA.com

There are also other web pages run by members of this reflector that are very good and have much info. Gordon, who has many files in the files section of this group and of course Mike who you've already been in contact with are very helpful.

I've had great success with the parts from Ken Kemski (the giant size D schematics are good for tired ol' eyes & make great wall art for the shack.).

Good luck & much DX with your hybrid,

Vy 73,
Mike K8SYN

--- In TS-520_820_530_830@yahoogroups.com, "K5vse-Mike" <k5vse@...> wrote:
>
> Hi Mike,
>
> Thanks for the info. I just came back from my shop. I compared the 830 board
> that a fellow sent me a copy of and the existing 520 board. They are similar
> in some ways, but there are differences. The resistors you mentioned, in
> this particular rig are probably 1/4 watt or maybe 1/2 watt at most. They
> are burned to an open state. I went through all the resistors I have on
> hand, and could not find a pair of 10 resistors. Guess I'll order a few on
> Monday. There are a couple of others that look suspect that need to be
> looked at as well.
>
> Have a great weekend es 73,
> Mike-K5VSE
>
>
> Formerly WB6VSE, Senior Tech. Amateur Division
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> APA 220, USS Okanogan, LSD31, USS Point Defiance
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>
>

> [Non-text portions of this message have been removed]
>

21224. Re: [TS-520_820_530_830] Re: TS-520SE ???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-17 00:33:24 UTC
From: K5vse-Mike
Topic: 21211 Message: 21224

Hi Mike-K8SYN,

I think I found what I need on Ken's site. Now I find that my printer is out of ink, so have to wait until tomorrow and print the board out. It looks like the one I actually have. I hope to get this thing working one of these days. The receiver works great. I will begin my search for two of the lever type knobs that fit the switches for the NB and AGC controls. Both are working, but missing the levers. That will only happen if I can get the transmitter going again.

Thanks again es 73,

Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
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Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
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[Non-text portions of this message have been removed]

21225. Re: TS-520SE ???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-17 03:42:17 UTC
From: w5rkl
Topic: 21211 Message: 21225

Mike (K4SVE)

The final amplifier cathode resistors in the 520, 520S, and 520SE, are ALL 10 ohm "1 watt" resistors. They are not 1/4 or 1/2 watt.

I do not recommend using a TS-830 schematic/final amplifier board diagram when servicing a TS-520SE.

The 520SE manual is available free at the following website:

http://www.n6wk.com/kenwood/

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "K5vse-Mike" <k5vse@...> wrote:
>
> Hi Mike,
>
> Thanks for the info. I just came back from my shop. I compared the 830 board
> that a fellow sent me a copy of and the existing 520 board. They are similar
> in some ways, but there are differences. The resistors you mentioned, in
> this particular rig are probably 1/4 watt or maybe 1/2 watt at most. They
> are burned to an open state. I went through all the resistors I have on
> hand, and could not find a pair of 10 resistors. Guess I'll order a few on
> Monday. There are a couple of others that look suspect that need to be
> looked at as well.
>
> Have a great weekend es 73,
> Mike-K5VSE
>
>
> Formerly WB6VSE, Senior Tech. Amateur Division
> SBE/Linear Systems, Watsonville, CA
> WEB Site: http://members.tripod.com/~sjsharks/index.html
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> Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
> APA 220, USS Okanogan, LSD31, USS Point Defiance
> All email scanned with Norton 2009
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>
>
> [Non-text portions of this message have been removed]
>

21226. Re: [TS-520_820_530_830] Re: TS-520SE ???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-17 05:34:58 UTC
From: K5vse-Mike
Topic: 21211 Message: 21226

Mike-W5RKL

Yeah, I found there was a difference in the two. I did find N6WK's site and downloaded the right info. All I need to do, it get ink for my printer. I tried tonight to print the one page that has the final PCB board, and found out I was out of ink. I hate it when that happens. As far as I was able to tell there in one 100 ohm resistor burned, and I have not identified the second one yet. I'll be able to do that tomorrow after a visit to our local Wally World. I am really anxious to get this one on the air, as years ago I had the complete 520 set up. VFO, DG-5, Speaker, and transceiver. I do remember that the receiver was pretty hot for and older rig.

Thanks es 73,
Mike-K5VSE

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SBE/Linear Systems, Watsonville, CA
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Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
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[Non-text portions of this message have been removed]

21227. Re: [TS-520_820_530_830] Re: TS-520SE ???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-17 06:55:26 UTC
From: Robert DROGOUL
Topic: 21211 Message: 21227

Hi Mike,
I tried to send you yesterday the schematic and PCB trace for the TS520SE, but I forgot that all "attached" data will be retired by Yahoo and my message was a little bit incomprehansible.
Well sorry but I see on the list that other Om had the sa me idea as mine and all is best.
The 100 ohms R you just noted should be one of the screen grid resistor.
There should be 2 100 ohms 1/2 W for the screen, 2 10 ohms 1 W for the cathodes, another 100 ohms 1/4 Wfor the grid polarisation and one 3,300 ohm also 1/4 W for the plate curent mesurement
I had almost the same problem as you have with a TS820S, and I rewired the PA PC board and evidently changed the tubes and one PA coil switch wafer that was burned (and caused all the disaster!), before putting it back on the air. Since then, I sold it in perfect working
condition!
73, Good Sunday, Mike BCNU

F5UL - Robert DROGOUL
Ref-Union - ARRL - NAQCC - Loc : JN35BV
Signataire de la Charte Union des Télégraphistes Francophones
http://utf.webamat.org

[Non-text portions of this message have been removed]

21228. Re: Digital Display TS-820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-17 18:02:26 UTC
From: trippkj4bkd
Topic: 21201 Message: 21228

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello Tripp,
>
> Lou's correct.
>
> Before you perform the 3.3VDC adjustment on the AF-AVR UNIT, make sure you adjust the 9VDC first.
>
> Mike W5RKL
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, Lou Blasco <radio@> wrote:
> >
> > Hi Tripp,
> >
> > VR2 is part of the RIT circuit and is used to adjust the zero point
> > for the control. Follow the RIT alignment procedure in the service
> > manual and you'll be fine.
> >
> > Lou
> > VK3ALB
> >
> > At 09:15 15/05/2009, you wrote:
> >
> >
> >

Thanks Mike and Lou I went back and did the RIT allignment and also started with the 9 volt adjustment and then the 3.2 volt. I did every adjustment that could be done with a volt meter including the band adjustments for 3.2 volts on the PLL board. I still had no improvement in the digital display that was constantly droping in and out. So I removed the DG-1 unit again and discovered the (x54-1150) board had very loose screws holding it to the metal chasis.I don't know how I missed it before, one of those late night eye strain and fatigue things. I cleaned the contacts between the two boards and retightened the screws put back in and presto! Now the display is working like new. I have more problems to tackle with this old radio but some of them maybe antenna related, such as week recieve. Im haveing to turn the AF gain a lot higher than usuall to hear. So untill I get more of the proper tools to make the adjustments I will have to live with it.

Thanks again for the help.
Tripp
KJ4BKD

21229. Re: [TS-520_820_530_830] Re: TS-520SE ???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-17 18:07:05 UTC
From: K5vse-Mike
Topic: 21211 Message: 21229

Thank you Robert,

I have just come back from the shop and found the following. R4 is 3.3k and is open. R1 is 100 ohm and is also open. I will replace these and both final tubes. Then we will see where that might lead me. I will check the band switch before applying power to the rig. The next thing I need to find if the rig works, are two of the levers for the NB and AGC switches. I probably will paint the cabinet, as it is pretty well scratched up. At least the little door on the side is still there! Most of them I've seen are missing the door.

And to all whom have offered help on this rig, my heartfelt thanks. It is really appreciated.

73 es CUL
Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
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[Non-text portions of this message have been removed]

21230. Re: [TS-520_820_530_830] Re: TS-520SE ???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-17 19:23:10 UTC
From: Don Thomas
Topic: 21211 Message: 21230

Most of the yahoo groups are set to not allow attachments. If needing to send an attachment to someone, send it direct to their email address instead of group mail. That way they will receive it. Have a good one....

Don T.

--- On Sun, 5/17/09, Robert DROGOUL <f5ul@...> wrote:

From: Robert DROGOUL <f5ul@...>
Subject: Re: [TS-520_820_530_830] Re: TS-520SE ???
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, May 17, 2009, 1:55 AM

Hi Mike,
I tried to send you yesterday the schematic and PCB trace for the TS520SE, but I forgot that all "attached" data will be retired by Yahoo and my message was a little bit incomprehansible.
Well sorry but I see on the list that other Om had the sa me idea as mine and all is best.
The 100 ohms R you just noted should be one of the screen grid resistor.
There should be 2 100 ohms 1/2 W for the screen, 2 10 ohms 1 W for the cathodes, another 100 ohms 1/4 Wfor the grid polarisation and one 3,300 ohm also 1/4 W for the plate curent mesurement
I had almost the same problem as you have with a TS820S, and I rewired the PA PC board and evidently changed the tubes and one PA coil switch wafer that was burned (and caused all the disaster!), before putting it back on the air. Since then, I sold it in perfect working
condition!
73, Good Sunday, Mike BCNU

F5UL - Robert DROGOUL
Ref-Union - ARRL - NAQCC - Loc : JN35BV
Signataire de la Charte Union des Télégraphistes Francophones
http://utf.webamat. org

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

21231. Part Number for a Diode

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-17 22:13:00 UTC
From: Gordon
Topic: 21231 Message: 21231

I need a 35v @100ma Silicone Diode. Anyone have a part number that is Valid? The OEM number is DE103.
I can't seem to find a cross for it.

Gordon

21232. Re: [TS-520_820_530_830] Part Number for a Diode

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-17 22:17:06 UTC
From: Gordon JC Pearce
Topic: 21231 Message: 21232

Gordon wrote:
> I need a 35v @100ma Silicone Diode. Anyone have a part number that is Valid? The OEM number is DE103.
> I can't seem to find a cross for it.

Has it got any funny properties, or is it just a generic silicon diode?

A 1N4148 is 75V 200mA, so that should do the job without breaking a sweat - *if* it's just a plain ordinary silicon diode.

Gordon MM3YEQ

21233. Re: [TS-520_820_530_830] Part Number for a Diode

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-17 22:32:26 UTC
From: n6wk@n6wk.com
Topic: 21231 Message: 21233

Thanks Gordon,
That might just do it.

73,
(The Other) Gordon

Gordon JC Pearce wrote:
>
>
> Gordon wrote:
> > I need a 35v @100ma Silicone Diode. Anyone have a part number that
> is Valid? The OEM number is DE103.
> > I can't seem to find a cross for it.
>
> Has it got any funny properties, or is it just a generic silicon diode?
>
> A 1N4148 is 75V 200mA, so that should do the job without breaking a
> sweat - *if* it's just a plain ordinary silicon diode.
>
> Gordon MM3YEQ
>
>

21234. Re: Part Number for a Diode

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-18 03:48:02 UTC
From: w5rkl
Topic: 21231 Message: 21234

Any silicon diode with a PIV rating of 35VDC at 100ma or higher will work as a replacement.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, n6wk@... wrote:
>
> Thanks Gordon,
> That might just do it.
>
> 73,
> (The Other) Gordon
>
>
>
> Gordon JC Pearce wrote:
> >
> >
> > Gordon wrote:
> > > I need a 35v @100ma Silicone Diode. Anyone have a part number that
> > is Valid? The OEM number is DE103.
> > > I can't seem to find a cross for it.
> >
> > Has it got any funny properties, or is it just a generic silicon diode?
> >
> > A 1N4148 is 75V 200mA, so that should do the job without breaking a
> > sweat - *if* it's just a plain ordinary silicon diode.
> >
> > Gordon MM3YEQ
> >
> >
>

21235. Re: [TS-520_820_530_830] Re: TS-520SE ???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-18 15:13:59 UTC
From: Mike-K5VSE
Topic: 21211 Message: 21235

OK folks,

My last question! Does anyone have a legible copy of the final board for a TS-520SE. I downloaded several versions, but can't read the value of R4. It is either 3.3 or 33k. My copy is blurred and makes it difficult to see. I have identified the two burned resistors as R1 and R4. R1 is 100 ohm, and as stated R4 can't be read on my drawing. They both appear to be 1/2 watt resistors. If I'm wrong, please advise. The cause of them opening up was a totally shorted final tube. I will replace both finals and probably the driver after the resistors are replaced.

I have received a lot of help from members, and for this I am grateful. Thanks to all who have responded. Hopefully I will have the rig on the air by the end of the week. This one is worth the time and effort, as it even has the little side door. It is missing the lever control handles for the NB and AGC, but the switches are intact and working. If all goes well, I will also order the paint from the fellow in MO who sells paint for various rigs. I used him for an old SB-200 that now looks new.

73,
Mike-K5VSE

21236. Re: [TS-520_820_530_830] Re: TS-520SE ???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-18 16:44:21 UTC
From: n6wk@n6wk.com
Topic: 21211 Message: 21236

R4 on the Final board is 3.3 K

It shows clearly on the Schematic that is on my Kenwood page .
http://www.n6wk.com/kenwood/TS-520SE_Service.pdf

73,
Gordon

Mike-K5VSE wrote:
>
>
> OK folks,
>
> My last question! Does anyone have a legible copy of the final board
> for a TS-520SE. I downloaded several versions, but can't read the
> value of R4. It is either 3.3 or 33k. My copy is blurred and makes it
> difficult to see. I have identified the two burned resistors as R1 and
> R4. R1 is 100 ohm, and as stated R4 can't be read on my drawing. They
> both appear to be 1/2 watt resistors. If I'm wrong, please advise. The
> cause of them opening up was a totally shorted final tube. I will
> replace both finals and probably the driver after the resistors are
> replaced.
>
> I have received a lot of help from members, and for this I am
> grateful. Thanks to all who have responded. Hopefully I will have the
> rig on the air by the end of the week. This one is worth the time and
> effort, as it even has the little side door. It is missing the lever
> control handles for the NB and AGC, but the switches are intact and
> working. If all goes well, I will also order the paint from the fellow
> in MO who sells paint for various rigs. I used him for an old SB-200
> that now looks new.
>
> 73,
> Mike-K5VSE
>
>

--
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21237. Re: [TS-520_820_530_830] Re: TS-520SE ???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-18 15:29:09 UTC
From: Robert DROGOUL
Topic: 21211 Message: 21237

Hi Mike,
The value of R4 is 3.3 kohms 1/2 watt. It's the serial resistor who enable the reading of the cathode voltage going in the two 10 ohms R
73 and Gl
F5UL - Robert DROGOUL
Ref-Union - ARRL - NAQCC - Loc : JN35BV
Signataire de la Charte Union des Télégraphistes Francophones
http://utf.webamat.org
----- Original Message -----
From: Mike-K5VSE
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, May 18, 2009 5:13 PM
Subject: Re: [TS-520_820_530_830] Re: TS-520SE ???

OK folks,

My last question! Does anyone have a legible copy of the final board for a TS-520SE. I downloaded several versions, but can't read the value of R4. It is either 3.3 or 33k. My copy is blurred and makes it difficult to see. I have identified the two burned resistors as R1 and R4. R1 is 100 ohm, and as stated R4 can't be read on my drawing. They both appear to be 1/2 watt resistors. If I'm wrong, please advise. The cause of them opening up was a totally shorted final tube. I will replace both finals and probably the driver after the resistors are replaced.

I have received a lot of help from members, and for this I am grateful. Thanks to all who have responded. Hopefully I will have the rig on the air by the end of the week. This one is worth the time and effort, as it even has the little side door. It is missing the lever control handles for the NB and AGC, but the switches are intact and working. If all goes well, I will also order the paint from the fellow in MO who sells paint for various rigs. I used him for an old SB-200 that now looks new.

73,
Mike-K5VSE

[Non-text portions of this message have been removed]

21238. Re: [TS-520_820_530_830] Re: TS-520SE ???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-18 16:57:22 UTC
From: K5vse-Mike
Topic: 21211 Message: 21238

Thanks Gordon,

I printed one that is hard to read. Must have missed yours though. I will go and find it and print it out to take to my backyard shop.

73,
Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
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[Non-text portions of this message have been removed]

21239. Re: [TS-520_820_530_830] Re: TS-520SE ???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-18 19:04:07 UTC
From: n6wk@n6wk.com
Topic: 21211 Message: 21239

Mike,
There is a FREE program called PDF-Exchange Viewer that does a much
better job printing out schematics then Adobe does.
http://www.docu-track.com/home/prod_user/PDF-XChange_Tools/pdfx_viewer
Many times, the adobe print is not clear enough to read, but this
program is because it uses TILE printing.
Check it out!

73,
Gordon

K5vse-Mike wrote:
>
>
> Thanks Gordon,
>
> I printed one that is hard to read. Must have missed yours though. I will
> go and find it and print it out to take to my backyard shop.
>
> 73,
> Mike-K5VSE
>
> Formerly WB6VSE, Senior Tech. Amateur Division
> SBE/Linear Systems, Watsonville, CA
> WEB Site: http://members.tripod.com/~sjsharks/index.html
> <http://members.tripod.com/%7Esjsharks/index.html>
> Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
> Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
> APA 220, USS Okanogan, LSD31, USS Point Defiance
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>
> [Non-text portions of this message have been removed]
>
> __

21240. TS-520SE problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-18 22:48:55 UTC
From: Mike-K5VSE
Topic: 21240 Message: 21240

Well, today I replaced R1 and R4, as well as the finals. Now, no matter where I put the multi-meter switch, I can key the transmitter and the meter will peg. It will not read the HV. I measured the HV and it's just over 900VDC, which I assume to be close. There is absolutley no output,as I have a scope across my dummy load. I have not connected an antenna, but can hear the calibrator very well,so I have to assume the receiver is working. It looks as if there is more wrong on the PCB for the finals than just those parts that were obvious. I will need to go further in my troubleshoting to locate the problem. I have not found the relay yet either. Must be hiding in there somewhere though, I can hear it when keying the transmitter.

If anyone has any suggestions please let me know, but in the mean time I will continue searching on my own.

Thanks to all for the help.

73,
Mike
K5VSE

21241. Re: [TS-520_820_530_830] TS-520SE problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-19 07:46:57 UTC
From: Gordon JC Pearce
Topic: 21240 Message: 21241

On Mon, 2009-05-18 at 22:48 +0000, Mike-K5VSE wrote:
> Well, today I replaced R1 and R4, as well as the finals. Now, no
> matter where I put the multi-meter switch, I can key the transmitter
> and the meter will peg. It will not read the HV. I measured the HV and

So, the meter hits the peg whether it's set to ALC, IP or RF, but
doesn't read when set to HV?

First off, make sure the bias pot is at minimum - it's *very* sensitive
and should only be increased *slowly* with the transmitter on until the
meter reads 60mA.

I guess if RL2 was stuck in receive then the meter could only ever read
ALC and the pi network would never be switched to the aerial, which
would cause a certain amount of distress. Incidentally I think the
contacts for RL2-1 may be drawn the wrong way round - I would have
expected the receiver input to be grounded when transmitting. As it's
drawn, in transmit the NC terminal of RL2-4 is grounded by the NO
terminal of RL2-1, which looks odd.

It's a bit hard to follow the busy parts of the circuit, but it looks
like if RL1 was stuck in receive then receiver AGC would be switched to
the transmit ALC line through the AGC amp (Q7, Q8). That might well
cause some odd stuff to happen.

Gordon MM3YEQ

21242. Re: TS-520SE problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-19 10:48:57 UTC
From: w5rkl
Topic: 21240 Message: 21242

RL1 is located under the VOX Unit board on the top left
rear of the 520SE. Remove the VOX Unit board and the forward plate
covering the chassis to gain access to RL1.

RL2 is located on the bottom of the chassis at the end of the
band switch shaft in a small metal enclosure between the large
metal enclosure and the rear panel.

Michael W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Mike-K5VSE" <k5vse@...> wrote:
>
> Well, today I replaced R1 and R4, as well as the finals. Now, no matter where I put the multi-meter switch, I can key the transmitter and the meter will peg. It will not read the HV. I measured the HV and it's just over 900VDC, which I assume to be close. There is absolutley no output,as I have a scope across my dummy load. I have not connected an antenna, but can hear the calibrator very well,so I have to assume the receiver is working. It looks as if there is more wrong on the PCB for the finals than just those parts that were obvious. I will need to go further in my troubleshoting to locate the problem. I have not found the relay yet either. Must be hiding in there somewhere though, I can hear it when keying the transmitter.
>
> If anyone has any suggestions please let me know, but in the mean time I will continue searching on my own.
>
> Thanks to all for the help.
>
> 73,
> Mike
> K5VSE
>

21243. Re: TS-520SE problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-19 10:52:28 UTC
From: w5rkl
Topic: 21240 Message: 21243

After replacing the final tubes and the resistors has the fuse
blown at anytime?

Michael W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Mike-K5VSE" <k5vse@...> wrote:
>
> Well, today I replaced R1 and R4, as well as the finals. Now, no matter where I put the multi-meter switch, I can key the transmitter and the meter will peg. It will not read the HV. I measured the HV and it's just over 900VDC, which I assume to be close. There is absolutley no output,as I have a scope across my dummy load. I have not connected an antenna, but can hear the calibrator very well,so I have to assume the receiver is working. It looks as if there is more wrong on the PCB for the finals than just those parts that were obvious. I will need to go further in my troubleshoting to locate the problem. I have not found the relay yet either. Must be hiding in there somewhere though, I can hear it when keying the transmitter.
>
> If anyone has any suggestions please let me know, but in the mean time I will continue searching on my own.
>
> Thanks to all for the help.
>
> 73,
> Mike
> K5VSE
>

21244. Re: [TS-520_820_530_830] Re: TS-520SE problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-19 14:45:47 UTC
From: K5vse-Mike
Topic: 21240 Message: 21244

Good morning Michael,

Thanks for the description for the location of both the relays.

NO, the fuse does not blow.

I'm on the way out to my shop that is about 200 feet from the house. I wish I had my computer out there as well, because I do have quite a bit of info stored on here relating to the 520. The next best thing is to print the whole manual off to take with me. Being on fixed income, I have to wait until tomorrow to get some ink, as I'm out at present. I have found a guy that has a parts radio who is willing to give me the board from it, and that might be the way to go. I wish Kenwood had printed the pin numbers and part ID's on the board. Would have made tracing the schematic a lot easier. Oh well, I'm too stubborn to stop now, and will find the solution eventually.

73,
Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
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[Non-text portions of this message have been removed]

21245. Re: [TS-520_820_530_830] TS-520SE problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-19 05:49:22 UTC
From: Robert DROGOUL
Topic: 21240 Message: 21245

Hi Mike,
Too bad, but be cautious!!! Look first at the commande grid polarisation. Should be something arount minus 100 V on receive, down to -45 to -55 V in transmit. When you turn the polarisation pot, you can go from 0.00 mA to full scale on the plate curent meter if the new PA is working correctly. Look also at the rectifier boards. The HT (+900V) is OK going down to +800/+820 V under load.
GL Mike
F5UL - Robert DROGOUL
Ref-Union - ARRL - NAQCC - Loc : JN35BV
Signataire de la Charte Union des Télégraphistes Francophones
http://utf.webamat.org

[Non-text portions of this message have been removed]

21246. Amazed at these TS rigs

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-20 04:46:40 UTC
From: blacklabpupp
Topic: 21246 Message: 21246

The more I work with it the more I am impressed. I have never even tried to work on my other rig. This TS 820 is built like nothing else I have seen, maybe a Collins. Easy enough to work on and large enough to work with. I am in no way ever going to be able to work on surface mount parts. The desing is straight foward and at times I am impressed with its ability to work signals in the enviroment we are in today. I put in a another new INRAD filter and with my TIMEWAVE DSP its hard to beat. I rarely use SSB, but I still cant believe for 30 year old gear it is quite good.
Let me also say that you must be careful about winning bids on eBay for filters. The last three I got were all bad, and the others I believe are damaged or lightening must have gone through it. The performance was not there. A quick replacement with a known good one showed the difference. I hope your luck on eBay is better than mine. To bad Kenwood has quit producing filters for older gear. Gene

21247. Re: TS-520SE problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-20 17:38:16 UTC
From: w5rkl
Topic: 21240 Message: 21247

I suspect the meter, in transmit, is displaying the receiver's full cut off bias, not ALC voltage.

The only time ALC voltage is produced is when the grids of the final tubes are "Positive", never when the grids are "Negative". ALC has nothing to do with nor is it used in receive.

I agree that relay RL2 may not be energizing. A visual inspection can determine if this is true or not. RL2 is located inside the small metal box at the end of the band switch shaft on the bottom of the radio.

Q7 and Q8 on the IF Unit are not ALC amplifiers, they are the "meter" buffer/amplifiers.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Robert DROGOUL" <f5ul@...> wrote:
>
> Hi Mike,
> Too bad, but be cautious!!! Look first at the commande grid polarisation. Should be something arount minus 100 V on receive, down to -45 to -55 V in transmit. When you turn the polarisation pot, you can go from 0.00 mA to full scale on the plate curent meter if the new PA is working correctly. Look also at the rectifier boards. The HT (+900V) is OK going down to +800/+820 V under load.
> GL Mike
> F5UL - Robert DROGOUL
> Ref-Union - ARRL - NAQCC - Loc : JN35BV
> Signataire de la Charte Union des Télégraphistes Francophones
> http://utf.webamat.org
>
> [Non-text portions of this message have been removed]
>

21248. Re: [TS-520_820_530_830] Re: TS-520SE problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-20 18:51:02 UTC
From: K5vse-Mike
Topic: 21240 Message: 21248

Thanks Mike W5RKL

The relay could well be the problem. It does not read the HV, but when I push the PTT in the HV position, it still pegs. I measured the plate voltage, and it's close to 900 VDC. Seems to remain constant in the keyed mode, so I will have to assume it is not switching from RX to TX even though I do hear one or the relays. Will check the second relay this afternoon. I also let some more smoke out of it. Looks like R70 and R71 burned while it was just sitting there as I was reading the schematic. What's next? HI HI

73,
Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2009
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[Non-text portions of this message have been removed]

21249. What are these filters used in?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-20 20:26:46 UTC
From: Mike-K5VSE
Topic: 21249 Message: 21249

Hello to all,

I have come across two brand new unused filters. One is a Kenwood YK-88S SSB Filter

The other is an International Radio Inc. (INRAD) Model 88H400 BC
This one has had a small PC board mounted to it, according to it's box in 1998. Has a frequency of 8830.7 marked on the label.It looks like the right size to fit my TS-520SE.

Does anyone know what rigs these are used in?

Thanks

Mike-K5VSE

21250. Re: [TS-520_820_530_830] What are these filters used in?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-20 21:09:16 UTC
From: Kay Groß
Topic: 21249 Message: 21250

Hello Mike,

both filters are not for a TS520, because the if frequency for this rig is around 3 Mhz ,if I remember correct.
Kenwood changed the if frequency with the TS820
and the following rigs e.g. TS530 and TS830, 120 and 130
and the newer rigs TS 450 and TS850.
The newer rigs had the possibility to plug in the filters,
but there was no difference at the filters themselve.

all the best and 73
Kay DL5OAQ
www.pbase.com/dl5oaq

----- Original Message -----
From: Mike-K5VSE
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, May 20, 2009 10:26 PM
Subject: [TS-520_820_530_830] What are these filters used in?

Hello to all,

I have come across two brand new unused filters. One is a Kenwood YK-88S SSB Filter

The other is an International Radio Inc. (INRAD) Model 88H400 BC
This one has had a small PC board mounted to it, according to it's box in 1998. Has a frequency of 8830.7 marked on the label.It looks like the right size to fit my TS-520SE.

Does anyone know what rigs these are used in?

Thanks

Mike-K5VSE

[Non-text portions of this message have been removed]

21251. Re: [TS-520_820_530_830] What are these filters used in?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-20 21:34:40 UTC
From: K5vse-Mike
Topic: 21249 Message: 21251

Thank you Kay for the information on the filters. I had no idea what rig they were used it. I'll put them on the shelf and have them ready if I need them in the future.

73,
Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2009
"In God We Trust"

[Non-text portions of this message have been removed]

21252. Re: TS-520SE problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-20 22:30:00 UTC
From: w5rkl
Topic: 21240 Message: 21252

A blown Q10 on the RF Unit can also cause both R70 and R71 to fail.

A good Q10 on the RF Unit will have about +3VDC on the Collector and
-92VDC on the emitter and base in receive.

In transmit the emitter and base voltage of Q10 will be approximately
-52VDC and the collector will remain at approximately +3VDC. If,
however, Q10's Collector voltage measures -92VDC in receive and
-52VDC in transmit, Q10 is blown.

A shorted C1 on the Final Unit, .001ufd bypass capacitor for the "FG"
bias supply line, can contribute to R71's failure and prevent bias
voltage from being applied to the final tube grids. If C1 is shorted
there will be very little, if any, bias voltage on pin 5 of the final
tubes.

Depending on the schematic/manual you have, R1 and C1 on the final
unit, may be labeled in reverse "R1" for C1 and "C1" for R1. Both
of these components may also be labeled "R1". Check your schematic.

I recommend turning the Heater switch OFF then Measure the voltage at
the final unit's "FG" connection. It should be a negative voltage at
approximately -90 to -100VDC or there bouts.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "K5vse-Mike" <k5vse@...> wrote:
>
> Thanks Mike W5RKL
>
> The relay could well be the problem. It does not read the HV, but when I
> push the PTT in the HV position, it still pegs. I measured the plate
> voltage, and it's close to 900 VDC. Seems to remain constant in the keyed
> mode, so I will have to assume it is not switching from RX to TX even though
> I do hear one or the relays. Will check the second relay this afternoon. I
> also let some more smoke out of it. Looks like R70 and R71 burned while it
> was just sitting there as I was reading the schematic. What's next? HI HI
>
> 73,
> Mike-K5VSE
>
>
> Formerly WB6VSE, Senior Tech. Amateur Division
> SBE/Linear Systems, Watsonville, CA
> WEB Site: http://members.tripod.com/~sjsharks/index.html
> Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
> Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier

> APA 220, USS Okanogan, LSD31, USS Point Defiance
> All email scanned with Norton 2009
> "In God We Trust"
>
>
> [Non-text portions of this message have been removed]
>

21253. 830 problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-21 08:15:17 UTC
From: John
Topic: 21253 Message: 21253

I was in QSO in a net, when I noticed the digital display "scanning".
i.e displaying all digits from 1.800 to 95.999 Mhz (as far as I can see, it happens very fast) I figure it is temperature related and in the display unit.The transmit and recieve frequency stays put.Maybe bad cap, crappy plug connection. Any clues guys??
Thanks,
John
ZL1DT

21254. can't bring alc reading below full scale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-22 16:11:23 UTC
From: jmathis7676
Topic: 21254 Message: 21254

Hello. Need help please. I have a ts-830s that was working, blew a fuse while transmitting and now have several problems. Have checked voltages and seem to be okay (with tubes out). Put in a new set of finals as suspected a final problem as the power supply seemed okay. Went to tune the finals and find the alc off scale even with the carrier level minimum. Any suggestions about what to check. Thanks in advance. John wa5fac

21255. Re: can't bring alc reading below full scale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-22 20:38:48 UTC
From: w5rkl
Topic: 21254 Message: 21255

Hello John,

You said,

"Have checked voltages and seem to be okay (with tubes out)."

What voltages did you check and where did you check them at?

Did you check the voltage in both transmit AND receive?

What you failed to say is what the "IP" meter indicated in Tune mode,
or any mode for that matter. What does the "IP" meter indicate?
The final tube must be in their sockets and the plate caps attached
to obtain an "IP" meter reading in any transmit mode.

Is the "IP" meter also "off scale" as well?

If the "IP" meter is also off scale then most likely the bias supply
is bad, one or both bias filter capacitors, C5/C6, are bad. Diode D5
can also be bad. C5 and C6 are 33ufd 160VDC axial lead capacitors and
D5 is a simple silicon diode with a PIV rating of at least 200VDC.
The bias supply is the "-C" supply on the Rectifier Unit.

If the bias supply fails then there is no bias voltage applied to the
final tubes and the final tubes will conduct heavily in both transmit
AND receive causing the fuse to blow.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "jmathis7676" <jmathis7676@...> wrote:
>
> Hello. Need help please. I have a ts-830s that was working, blew a fuse while transmitting and now have several problems. Have checked voltages and seem to be okay (with tubes out). Put in a new set of finals as suspected a final problem as the power supply seemed okay. Went to tune the finals and find the alc off scale even with the carrier level minimum. Any suggestions about what to check. Thanks in advance. John wa5fac
>

21256. Re: 830 problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-22 20:44:54 UTC
From: w5rkl
Topic: 21253 Message: 21256

I would first clean the Counter Unit plugs and pins that plug into
the PLL Unit and the Counter Unit.

The PLL Unit is the long PC board on the bottom right, 830 turned
upside down and the front panel facing you.

The Counter Unit is on the top of the 830 chassis, between the
front panel and the HV filter capacitors.

Use caution when removing the plugs to ensure the wires do not pull
out of the plugs. Also be sure you plug the right plugs into the
right pins.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "John" <zl1dt@...> wrote:
>
> I was in QSO in a net, when I noticed the digital display "scanning".
> i.e displaying all digits from 1.800 to 95.999 Mhz (as far as I can see, it happens very fast) I figure it is temperature related and in the display unit.The transmit and recieve frequency stays put.Maybe bad cap, crappy plug connection. Any clues guys??
> Thanks,
> John
> ZL1DT
>

21257. Re: can't bring alc reading below full scale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-22 22:18:48 UTC
From: jmathis7676
Topic: 21254 Message: 21257

Mike thanks. You are right, I did not give enough info. In the interim we changed the finals and driver again and the problem seemed to go away (but don't know why). I did not loose the bias supply and had read prior posts about that so it was first to be checked out.

Now, I have good drive and tuning. However, my frequency shifts about 6-800 cycles from receive to transmit. Any suggestions about where to look for that one. jm

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello John,
>
> You said,
>
> "Have checked voltages and seem to be okay (with tubes out)."
>
> What voltages did you check and where did you check them at?
>
> Did you check the voltage in both transmit AND receive?
>
> What you failed to say is what the "IP" meter indicated in Tune mode,
> or any mode for that matter. What does the "IP" meter indicate?
> The final tube must be in their sockets and the plate caps attached
> to obtain an "IP" meter reading in any transmit mode.
>
> Is the "IP" meter also "off scale" as well?
>
> If the "IP" meter is also off scale then most likely the bias supply
> is bad, one or both bias filter capacitors, C5/C6, are bad. Diode D5
> can also be bad. C5 and C6 are 33ufd 160VDC axial lead capacitors and
> D5 is a simple silicon diode with a PIV rating of at least 200VDC.
> The bias supply is the "-C" supply on the Rectifier Unit.
>
> If the bias supply fails then there is no bias voltage applied to the
> final tubes and the final tubes will conduct heavily in both transmit
> AND receive causing the fuse to blow.
>
> Mike W5RKL
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "jmathis7676" <jmathis7676@> wrote:
> >
> > Hello. Need help please. I have a ts-830s that was working, blew a fuse while

transmitting and now have several problems. Have checked voltages and seem to be okay (with tubes out). Put in a new set of finals as suspected a final problem as the power supply seemed okay. Went to tune the finals and find the alc off scale even with the carrier level minimum. Any suggestions about what to check. Thanks in advance. John wa5fac
> >
>

21258. Re: can't bring alc reading below full scale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-23 02:24:21 UTC
From: w5rkl
Topic: 21254 Message: 21258

It's possible, John, the 830's "RIT/XIT" control on the front
panel is turned ON causing the shift in transmit frequency verse
receive frequency.

It appears the driver tube was the source of your problem, most
likely it is shorted internally. A tube tester that tests for
shorts can determine if it is shorted or not.

Mike W5RKL

--- In TS-520_820_530_830@...m, "jmathis7676" <jmathis7676@...> wrote:
>
> Mike thanks. You are right, I did not give enough info. In the interim we changed the finals and driver again and the problem seemed to go away (but don't know why). I did not loose the bias supply and had read prior posts about that so it was first to be checked out.
>
> Now, I have good drive and tuning. However, my frequency shifts about 6-800 cycles from receive to transmit. Any suggestions about where to look for that one. jm
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Hello John,
> >
> > You said,
> >
> > "Have checked voltages and seem to be okay (with tubes out)."
> >
> > What voltages did you check and where did you check them at?
> >
> > Did you check the voltage in both transmit AND receive?
> >
> > What you failed to say is what the "IP" meter indicated in Tune mode,
> > or any mode for that matter. What does the "IP" meter indicate?
> > The final tube must be in their sockets and the plate caps attached
> > to obtain an "IP" meter reading in any transmit mode.
> >
> > Is the "IP" meter also "off scale" as well?
> >
> > If the "IP" meter is also off scale then most likely the bias supply
> > is bad, one or both bias filter capacitors, C5/C6, are bad. Diode D5
> > can also be bad. C5 and C6 are 33ufd 160VDC axial lead capacitors and
> > D5 is a simple silicon diode with a PIV rating of at least 200VDC.
> > The bias supply is the "-C" supply on the Rectifier Unit.
> >

> > If the bias supply fails then there is no bias voltage applied to the
> > final tubes and the final tubes will conduct heavily in both transmit
> > AND receive causing the fuse to blow.
> >
> > Mike W5RKL
> >
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "jmathis7676" <jmathis7676@> wrote:
> > >
> > > Hello. Need help please. I have a ts-830s that was working, blew a fuse while transmitting and now have several problems. Have checked voltages and seem to be okay (with tubes out). Put in a new set of finals as suspected a final problem as the power supply seemed okay. Went to tune the finals and find the alc off scale even with the carrier level minimum. Any suggestions about what to check. Thanks in advance. John wa5fac
> > >
> >
>

21259. TS-830 Help!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-24 12:28:37 UTC
From: Ken
Topic: 21259 Message: 21259

I need some guidance on getting my display to read the correct frequency. I can calibrate it to the "cal" and the displayed frequency is about .1 to .2 off as compared to my IC-718, FT-450, and wwv. What do I adjust to correct this? I know I may be picky. Thanks WA0NVT.

21260. Re: [TS-520_820_530_830] TS-830 Help!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-24 16:40:46 UTC
From: n6wk@n6wk.com
Topic: 21259 Message: 21260

Hi Ken,
Page 21 of this Manual shows exactly how to calibrate the Digital
display to read correctly.
http://www.n6wk.com/kenwood/TS-830S_Instruction_manual.pdf

It won't take much adjustment to move it .1 or .2

73,
Gordon
N6WK

Ken wrote:
>
>
> I need some guidance on getting my display to read the correct
> frequency. I can calibrate it to the "cal" and the displayed frequency
> is about .1 to .2 off as compared to my IC-718, FT-450, and wwv. What
> do I adjust to correct this? I know I may be picky. Thanks WA0NVT.
>
>

21261. Re: TS-830 Help!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-24 20:03:33 UTC
From: Ken
Topic: 21259 Message: 21261

Hi, Are you sure this will change the "display readout" and not the "cal" frequency?

--- In TS-520_820_530_830@yahoogroups.com, n6wk@... wrote:
>
> Hi Ken,
> Page 21 of this Manual shows exactly how to calibrate the Digital
> display to read correctly.
> http://www.n6wk.com/kenwood/TS-830S_Instruction_manual.pdf
>
> It won't take much adjustment to move it .1 or .2
>
> 73,
> Gordon
> N6WK
>
>
>
> Ken wrote:
> >
> >
> > I need some guidance on getting my display to read the correct
> > frequency. I can calibrate it to the "cal" and the displayed frequency
> > is about .1 to .2 off as compared to my IC-718, FT-450, and wwv. What
> > do I adjust to correct this? I know I may be picky. Thanks WA0NVT.
> >
> >
>

21262. TS 830S problems and more

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-24 22:52:59 UTC
From: John
Topic: 21262 Message: 21262

Thanks Mike, W5RKL, for replying to my post. The problem was indeed dirty plug connections on the PLL unit.
Now, on the next thing!
While inside the rig, I found a wire cut. This wire goes between the AF-AVR board, plug 6, pin 4 (TOF) and RF board, plug 6, pin 1 also marked TOF. Does anyone know what this mod is for?
Thanks,
John
ZL1DT

21263. Re: [TS-520_820_530_830] TS 830S problems and more

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-24 23:30:09 UTC
From: Ken Winterling
Topic: 21262 Message: 21263

John,

The cut wire enables transmitting on the WARC bands, 17 and 12 M. See page 28 in the user manual.

Ken, WA2LBI

On Sun, May 24, 2009 at 18:52, John <zl1dt@...> wrote:

> Thanks Mike, W5RKL, for replying to my post. The problem was indeed dirty
> plug connections on the PLL unit.
> Now, on the next thing!
> While inside the rig, I found a wire cut. This wire goes between the AF-AVR
> board, plug 6, pin 4 (TOF) and RF board, plug 6, pin 1 also marked TOF. Does
> anyone know what this mod is for?
> Thanks,
> John
> ZL1DT
>
>

[Non-text portions of this message have been removed]

21264. Re: [TS-520_820_530_830] TS 830S problems and more

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-24 23:32:51 UTC
From: Don Thomas
Topic: 21262 Message: 21264

Never worked on a 830 before, but looking at schematic following the TOF line on RF board it goes to the band switch. Guessing being cut enables the WARC bands.

Don T.

--- On Sun, 5/24/09, John <zl1dt@...> wrote:

From: John <zl1dt@...>
Subject: [TS-520_820_530_830] TS 830S problems and more
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, May 24, 2009, 5:52 PM

Thanks Mike, W5RKL, for replying to my post. The problem was indeed dirty plug connections on the PLL unit.
Now, on the next thing!
While inside the rig, I found a wire cut. This wire goes between the AF-AVR board, plug 6, pin 4 (TOF) and RF board, plug 6, pin 1 also marked TOF. Does anyone know what this mod is for?
Thanks,
John
ZL1DT

[Non-text portions of this message have been removed]

21265. Re: [TS-520_820_530_830] TS 830S problems and more

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-24 23:40:14 UTC
From: J T
Topic: 21262 Message: 21265

Thank you for your replies.
What a great group this is!
73 de ZL1DT
----- Original Message -----
From: Don Thomas
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, May 25, 2009 11:32 AM
Subject: Re: [TS-520_820_530_830] TS 830S problems and more

Never worked on a 830 before, but looking at schematic following the TOF line on RF board it goes to the band switch. Guessing being cut enables the WARC bands.

Don T.

--- On Sun, 5/24/09, John <zl1dt@...> wrote:

From: John <zl1dt@...>
Subject: [TS-520_820_530_830] TS 830S problems and more
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, May 24, 2009, 5:52 PM

Thanks Mike, W5RKL, for replying to my post. The problem was indeed dirty plug connections on the PLL unit.
Now, on the next thing!
While inside the rig, I found a wire cut. This wire goes between the AF-AVR board, plug 6, pin 4 (TOF) and RF board, plug 6, pin 1 also marked TOF. Does anyone know what this mod is for?
Thanks,
John
ZL1DT

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.12.33/2120 - Release Date: 05/18/09 06:28:00

[Non-text portions of this message have been removed]

21266. Re: [TS-520_820_530_830] TS 830S problems and more

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-24 23:48:12 UTC
From: n6wk@n6wk.com
Topic: 21262 Message: 21266

Yes, Enables the Warc Bands by cutting that wire.

73,
Gordon
N6WK

John wrote:
>
>
> Thanks Mike, W5RKL, for replying to my post. The problem was indeed
> dirty plug connections on the PLL unit.
> Now, on the next thing!
> While inside the rig, I found a wire cut. This wire goes between the
> AF-AVR board, plug 6, pin 4 (TOF) and RF board, plug 6, pin 1 also
> marked TOF. Does anyone know what this mod is for?
> Thanks,
> John
> ZL1DT
>
>

21267. No grid drive

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-26 12:55:13 UTC
From: jmathis7676
Topic: 21267 Message: 21267

Hello to all. I have a ts-830s that has no alc meter indication when tuning the grid drive (in tune position). None on any band. Tested the driver and substituted a different one with no change. Also tested voltages on the driver socket (tube out) and all okay but pin one shows 0.0 in both receive and transmit.

I need help to know where to go first and what to look for. Thanks in advance and glad to have your help. john wa5fac

21268. Re: No grid drive

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-26 17:16:08 UTC
From: w5rkl
Topic: 21267 Message: 21268

Hello John,

Check resistors R15 and R16 (both are 15K 1/2 watt) on the Rectifier Unit. These resistors are used to lower the final tube's screen voltage in TUNE mode. If one or both resistors have significantly increased in value, the ALC meter indication in TUNE mode will be quite a bit less, if not zero, regardless of the CAR control and DRIVE control settings. RF Output in TUNE mode will also be affected. However, if tuning the 830 up in CW mode produces good output, replace both R15 and R16 with new 15K 1/2 watt resistors. Metal film resistors will do fine.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "jmathis7676" <jmathis7676@...> wrote:
>
> Hello to all. I have a ts-830s that has no alc meter indication when tuning the grid drive (in tune position). None on any band. Tested the driver and substituted a different one with no change. Also tested voltages on the driver socket (tube out) and all okay but pin one shows 0.0 in both receive and transmit.
>
> I need help to know where to go first and what to look for. Thanks in advance and glad to have your help. john wa5fac
>

21269. Re: No grid drive

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-26 17:42:28 UTC
From: jmathis7676
Topic: 21267 Message: 21269

Mike thanks for the quick reply. I will try the resistors tonight and report back. I will say, that there is no output at any position on grid adjustment in tune position and that seems to suggest not a meter problem (this is using an external meter on the dummy load). jm

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello John,
>
> Check resistors R15 and R16 (both are 15K 1/2 watt) on the Rectifier Unit. These resistors are used to lower the final tube's screen voltage in TUNE mode. If one or both resistors have significantly increased in value, the ALC meter indication in TUNE mode will be quite a bit less, if not zero, regardless of the CAR control and DRIVE control settings. RF Output in TUNE mode will also be affected. However, if tuning the 830 up in CW mode produces good output, replace both R15 and R16 with new 15K 1/2 watt resistors. Metal film resistors will do fine.
>
>
> Mike W5RKL
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "jmathis7676" <jmathis7676@> wrote:
> >
> > Hello to all. I have a ts-830s that has no alc meter indication when tuning the grid drive (in tune position). None on any band. Tested the driver and substituted a different one with no change. Also tested voltages on the driver socket (tube out) and all okay but pin one shows 0.0 in both receive and transmit.
> >
> > I need help to know where to go first and what to look for. Thanks in advance and glad to have your help. john wa5fac
> >
>

21270. TS-820S Run away Idle Current

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-26 20:34:28 UTC
From: Gordon
Topic: 21270 Message: 21270

I have an 820S here on the bench that is driving me nuts. The Idle plate current runs away(goes off scale) in USB but will go as low as 80ma in LSB. I am convinced it has something to do with the Carrier balance adjustment on the IF board, but I am at an end. Any suggestions out there?
I have tried new tubes and still the same thing. If I don't turn it off it will blow the fuse after a few minutes unless I leave the SG switch off. Then it does not blow the fuse.

Thanks,
Gordon

21271. Re: No grid drive

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-26 21:08:40 UTC
From: w5rkl
Topic: 21267 Message: 21271

John,

When you say "no output at any position on the grid adjustment"
I assume "grid adjustment" is when you adjust the "DRIVE" control
on the front panel for a peak ALC meter indication.

R15 and R16 on the Rectifier Unit provides a voltage divider. At
the junction of R15 and R16, the "lower" DC voltage is applied to
the final tube screens during TUNE mode. This puts less stress on
the final tubes during tune up. After tune up, placing the mode
switch to CW, USB, or LSB, produces normal screen voltage level
to the final tubes.

A quick way to determine if R15 and/or R16 are bad without removing
the covers is to place the meter switch to "IP", mode switch to CW,
CAR control to 9 or 10 o'clock, and key the radio. The IP Meter
should indicate between 80ma and 150ma. Adjust the "DRIVE" control
for a Peak IP meter indication then adjust the PLATE control for a
DIP should produce RF Output on your external watt meter. If your
radio produces the indications mentioned above then replace both R15
and R16 and you will fix your problem.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "jmathis7676" <jmathis7676@...> wrote:
>
> Mike thanks for the quick reply. I will try the resistors tonight and report back. I will
say, that there is no output at any position on grid adjustment in tune position and that
seems to suggest not a meter problem (this is using an external meter on the dummy load).
jm
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Hello John,
> >
> > Check resistors R15 and R16 (both are 15K 1/2 watt) on the Rectifier Unit. These
resistors are used to lower the final tube's screen voltage in TUNE mode. If one or both
resistors have significantly increased in value, the ALC meter indication in TUNE mode will
be quite a bit less, if not zero, regardless of the CAR control and DRIVE control settings.
RF Output in TUNE mode will also be affected. However, if tuning the 830 up in CW mode
produces good output, replace both R15 and R16 with new 15K 1/2 watt resistors. Metal film
resistors will do fine.
> >

> >
> > Mike W5RKL
> >
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "jmathis7676" <jmathis7676@> wrote:
> > >
> > > Hello to all. I have a ts-830s that has no alc meter indication when tuning the grid drive (in tune position). None on any band. Tested the driver and substituted a different one with no change. Also tested voltages on the driver socket (tube out) and all okay but pin one shows 0.0 in both receive and transmit.
> > >
> > > I need help to know where to go first and what to look for. Thanks in advance and glad to have your help. john wa5fac
> > >
> >
>

21272. Re: No grid drive

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-26 21:25:54 UTC
From: jmathis7676
Topic: 21267 Message: 21272

Mike, tried your suggestion but just see bias current (about 50-60 ma of plate current) when tested as you suggest. No output and no deflection of the IP with grid tuning.

My receiver is also very weak so suspect this is an injection problem with some common problems on receive too. jm

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> John,
>
> When you say "no output at any position on the grid adjustment"
> I assume "grid adjustment" is when you adjust the "DRIVE" control
> on the front panel for a peak ALC meter indication.
>
> R15 and R16 on the Rectifier Unit provides a voltage divider. At
> the junction of R15 and R16, the "lower" DC voltage is applied to
> the final tube screens during TUNE mode. This puts less stress on
> the final tubes during tune up. After tune up, placing the mode
> switch to CW, USB, or LSB, produces normal screen voltage level
> to the final tubes.
>
> A quick way to determine if R15 and/or R16 are bad without removing
> the covers is to place the meter switch to "IP", mode switch to CW,
> CAR control to 9 or 10 o'clock, and key the radio. The IP Meter
> should indicate between 80ma and 150ma. Adjust the "DRIVE" control
> for a Peak IP meter indication then adjust the PLATE control for a
> DIP should produce RF Output on your external watt meter. If your
> radio produces the indications mentioned above then replace both R15
> and R16 and you will fix your problem.
>
> Mike W5RKL
>
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>
>
> --- In TS-520_820_530_830@yahoogroups.com, "jmathis7676" <jmathis7676@> wrote:
> >
> > Mike thanks for the quick reply. I will try the resistors tonight and report back. I will say, that there is no output at any position on grid adjustment in tune position and that seems to suggest not a meter problem (this is using an external meter on the dummy load). jm
> > >
> > >
> > >
> > >

> > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > >
> > > Hello John,
> > >
> > > Check resistors R15 and R16 (both are 15K 1/2 watt) on the Rectifier Unit. These resistors are used to lower the final tube's screen voltage in TUNE mode. If one or both resistors have significantly increased in value, the ALC meter indication in TUNE mode will be quite a bit less, if not zero, regardless of the CAR control and DRIVE control settings. RF Output in TUNE mode will also be affected. However, if tuning the 830 up in CW mode produces good output, replace both R15 and R16 with new 15K 1/2 watt resistors. Metal film resistors will do fine.
> > >
> > >
> > > Mike W5RKL
> > >
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "jmathis7676" <jmathis7676@> wrote:
> > > >
> > > > Hello to all. I have a ts-830s that has no alc meter indication when tuning the grid drive (in tune position). None on any band. Tested the driver and substituted a different one with no change. Also tested voltages on the driver socket (tube out) and all okay but pin one shows 0.0 in both receive and transmit.
> > > >
> > > > I need help to know where to go first and what to look for. Thanks in advance and glad to have your help. john wa5fac
> > > >
> > >
> > >
> >

21273. Re: TS-820S Run away Idle Current

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-26 22:03:02 UTC
From: w5rkl
Topic: 21270 Message: 21273

Afternoon Gordon,

Removing ONLY the driver tube should cause the final IP idling current to be normal, 60ma. If this is true then you can eliminate the final amplifier as the source of the problem.

Have you connected a scope and/or frequency counter to the IF Unit IF-3 plug pin 2 connection (TIF)? If the TIF connection produces a frequency of 8.8Mhz then the balance modulator is not balanced allowing the carrier generator signal to mix with the VFO producing the 8.8Mhz IF signal at the TIF connection even with no audio output from the speech amplifier.

Turn the MIC gain to minimum, remove any microphone from the front panel MIC socket, adjust the carrier null for minimum RF. If the problem is still there, then my initial thoughts are as follows:

1. Noise is being generated from the speech amplifier even with minimum MIC gain setting.

or

2. One or more diodes, D26, D27, D28, and/or D29 in the balance modulator on the IF Unit have failed.

Just a couple of thoughts.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> I have an 820S here on the bench that is driving me nuts. The Idle plate current runs away(goes off scale) in USB but will go as low as 80ma in LSB. I am convinced it has something to do with the Carrier balance adjustment on the IF board, but I am at an end. Any suggestions out there?
> I have tried new tubes and still the same thing. If I don't turn it off it will blow the fuse after a few minutes unless I leave the SG switch off. Then it does not blow the fuse.
>
> Thanks,
> Gordon
>

21274. Re: No grid drive

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-26 22:09:47 UTC
From: w5rkl
Topic: 21267 Message: 21274

John,

How are you keying the radio in CW mode? Are you turning the "SEND"
switch on the front panel ON with a CW key or keyer plugged into the
CW socket on the rear? If that's how you are keying the radio in
CW mode, remove the CW key/keyer from the rear of the radio then turn
the SEND switch ON to key the radio. In CW mode you must close the
CW key or cause the keyer to key the radio. Simply turning the SEND
switch ON in CW mode with a key or CW keyer plugged into the rear
CW socket will not produce any output.

Also, if setting the CAR control to 9 or 10 o'clock does not produce
an increase in IP current, adjust the CAR control to a higher setting
and try again.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "jmathis7676" <jmathis7676@...> wrote:
>
> Mike, tried your suggestion but just see bias current (about 50-60 ma of plate current)
when tested as you suggest. No output and no deflection of the IP with grid tuning.
>
> My receiver is also very weak so suspect this is an injection problem with some common
problems on receive too. jm
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > John,
> >
> > When you say "no output at any position on the grid adjustment"
> > I assume "grid adjustment" is when you adjust the "DRIVE" control
> > on the front panel for a peak ALC meter indication.
> >
> > R15 and R16 on the Rectifier Unit provides a voltage divider. At
> > the junction of R15 and R16, the "lower" DC voltage is applied to
> > the final tube screens during TUNE mode. This puts less stress on
> > the final tubes during tune up. After tune up, placing the mode
> > switch to CW, USB, or LSB, produces normal screen voltage level
> > to the final tubes.
> >
> > A quick way to determine if R15 and/or R16 are bad without removing
> > the covers is to place the meter switch to "IP", mode switch to CW,
> > CAR control to 9 or 10 o'clock, and key the radio. The IP Meter
> > should indicate between 80ma and 150ma. Adjust the "DRIVE" control
> > for a Peak IP meter indication then adjust the PLATE control for a

> > DIP should produce RF Output on your external watt meter. If your
> > radio produces the indications mentioned above then replace both R15
> > and R16 and you will fix your problem.
> >
> > Mike W5RKL
> >
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "jmathis7676" <jmathis7676@> wrote:
> > >
> > > Mike thanks for the quick reply. I will try the resistors tonight and report back. I will say, that there is no output at any position on grid adjustment in tune position and that seems to suggest not a meter problem (this is using an external meter on the dummy load). jm
> > >
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > > >
> > > > Hello John,
> > > >
> > > > Check resistors R15 and R16 (both are 15K 1/2 watt) on the Rectifier Unit. These resistors are used to lower the final tube's screen voltage in TUNE mode. If one or both resistors have significantly increased in value, the ALC meter indication in TUNE mode will be quite a bit less, if not zero, regardless of the CAR control and DRIVE control settings. RF Output in TUNE mode will also be affected. However, if tuning the 830 up in CW mode produces good output, replace both R15 and R16 with new 15K 1/2 watt resistors. Metal film resistors will do fine.
> > > >
> > > >
> > > > Mike W5RKL
> > > >
> > > >
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "jmathis7676" <jmathis7676@> wrote:
> > > > >
> > > > > Hello to all. I have a ts-830s that has no alc meter indication when tuning the grid drive (in tune position). None on any band. Tested the driver and substituted a different one with no change. Also tested voltages on the driver socket (tube out) and all okay but pin one shows 0.0 in both receive and transmit.
> > > > >
> > > > > I need help to know where to go first and what to look for. Thanks in advance and glad to have your help. john wa5fac
> > > > >
> > > > >
> > > >
> > >
> >

>

21275. Re: [TS-520_820_530_830] Re: TS-820S Run away Idle Current

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-26 23:42:22 UTC
From: n6wk@n6wk.com
Topic: 21270 Message: 21275

Hi Mike,
Removing the Driver does help, but it still acts strange.
When the driver tube is out and I check the idle IP, It at first
may read 70 to 80 but then slowly goes back down to 60. If I wait a
minute, do it again and it does the same thing. However, it no longer
runs away and blows the fuse with the driver out.
I turned the Mic gain all the way down and the compressor all the way
down, even though it is OFF. There is NO Mic connected.
Next step is to check the 4 diodes I guess.
My Frequency Counter shows NO reading on the TIF terminal.

73,
Gordon

w5rkl wrote:
>
>
> Afternoon Gordon,
>
> Removing ONLY the driver tube should cause the final IP idling
> current to be normal, 60ma. If this is true then you can eliminate
> the final amplifier as the source of the problem.
>
> Have you connected a scope and/or frequency counter to the IF Unit
> IF-3 plug pin 2 connection (TIF)? If the TIF connection produces a
> frequency of 8.8Mhz then the balance modulator is not balanced
> allowing the carrier generator signal to mix with the VFO producing
> the 8.8Mhz IF signal at the TIF connection even with no audio output
> from the speech amplifier.
>
> Turn the MIC gain to minimum, remove any microphone from the front
> panel MIC socket, adjust the carrier null for minimum RF. If the
> problem is still there, then my initial thoughts are as follows:
>
> 1. Noise is being generated from the speech amplifier even with
> minimum MIC gain setting.
>
> or
>
> 2. One or more diodes, D26, D27, D28, and/or D29 in the balance
> modulator on the IF Unit have failed.
>
> Just a couple of thoughts.
>
> Mike W5RKL

>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Gordon" <n6wk@...> wrote:
> >
> > I have an 820S here on the bench that is driving me nuts. The Idle
> plate current runs away(goes off scale) in USB but will go as low as
> 80ma in LSB. I am convinced it has something to do with the Carrier
> balance adjustment on the IF board, but I am at an end. Any
> suggestions out there?
> > I have tried new tubes and still the same thing. If I don't turn it
> off it will blow the fuse after a few minutes unless I leave the SG
> switch off. Then it does not blow the fuse.
> >
> > Thanks,
> > Gordon
> >
>
>

21276. Re: No grid drive

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-26 23:42:17 UTC
From: jmathis7676
Topic: 21267 Message: 21276

Mike, okay on your suggestion. I have no key installed and also have tried the carrier all the way up as well. I believe there is a common receiver and drive problem as the receiver signals are way down and no drive on transmit. jm

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> John,
>
> How are you keying the radio in CW mode? Are you turning the "SEND"
> switch on the front panel ON with a CW key or keyer plugged into the
> CW socket on the rear? If that's how you are keying the radio in
> CW mode, remove the CW key/keyer from the rear of the radio then turn
> the SEND switch ON to key the radio. In CW mode you must close the
> CW key or cause the keyer to key the radio. Simply turning the SEND
> switch ON in CW mode with a key or CW keyer plugged into the rear
> CW socket will not produce any output.
>
> Also, if setting the CAR control to 9 or 10 o'clock does not produce
> an increase in IP current, adjust the CAR control to a higher setting
> and try again.
>
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "jmathis7676" <jmathis7676@> wrote:
> >
> > Mike, tried your suggestion but just see bias current (about 50-60 ma of plate current) when tested as you suggest. No output and no deflection of the IP with grid tuning.
> >
> > My receiver is also very weak so suspect this is an injection problem with some common problems on receive too. jm
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > >
> > > John,
> > >
> > > When you say "no output at any position on the grid adjustment"
> > > I assume "grid adjustment" is when you adjust the "DRIVE" control
> > > on the front panel for a peak ALC meter indication.
> > >
> > > R15 and R16 on the Rectifier Unit provides a voltage divider. At
> > > the junction of R15 and R16, the "lower" DC voltage is applied to
> > > the final tube screens during TUNE mode. This puts less stress on
> > > the final tubes during tune up. After tune up, placing the mode

> > > switch to CW, USB, or LSB, produces normal screen voltage level
> > > to the final tubes.
> > >
> > > A quick way to determine if R15 and/or R16 are bad without removing
> > > the covers is to place the meter switch to "IP", mode switch to CW,
> > > CAR control to 9 or 10 o'clock, and key the radio. The IP Meter
> > > should indicate between 80ma and 150ma. Adjust the "DRIVE" control
> > > for a Peak IP meter indication then adjust the PLATE control for a
> > > DIP should produce RF Output on your external watt meter. If your
> > > radio produces the indications mentioned above then replace both R15
> > > and R16 and you will fix your problem.
> > >
> > > Mike W5RKL
> > >
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "jmathis7676" <jmathis7676@> wrote:
> > > >
> > > > Mike thanks for the quick reply. I will try the resistors tonight and report back. I will say, that there is no output at any position on grid adjustment in tune position and that seems to suggest not a meter problem (this is using an external meter on the dummy load). jm
> > > >
> > > >
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > > > >
> > > > > Hello John,
> > > > >
> > > > > Check resistors R15 and R16 (both are 15K 1/2 watt) on the Rectifier Unit. These resistors are used to lower the final tube's screen voltage in TUNE mode. If one or both resistors have significantly increased in value, the ALC meter indication in TUNE mode will be quite a bit less, if not zero, regardless of the CAR control and DRIVE control settings. RF Output in TUNE mode will also be affected. However, if tuning the 830 up in CW mode produces good output, replace both R15 and R16 with new 15K 1/2 watt resistors. Metal film resistors will do fine.
> > > > >
> > > > >
> > > > > Mike W5RKL
> > > > >
> > > > >
> > > > >
> > > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com, "jmathis7676" <jmathis7676@> wrote:
> > > > > >
> > > > > > Hello to all. I have a ts-830s that has no alc meter indication when tuning the grid drive (in tune position). None on any band. Tested the driver and substituted a different one with no change. Also tested voltages on the driver socket (tube out) and all

okay but pin one shows 0.0 in both receive and transmit.
> > > > > >
> > > > > > I need help to know where to go first and what to look for. Thanks in advance and glad to have your help. john wa5fac
> > > > > >
> > > > > >
> > > > >
> > > >
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>

21277. Re: [TS-520_820_530_830] TS-820S Run away Idle Current

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-26 23:58:41 UTC
From: Lou Blasco
Topic: 21270 Message: 21277

Is the PA unstable and taking off perhaps? Can you run through the
neutralization procedure and see if that makes a difference?

At 06:34 27/05/2009, you wrote:
>I have an 820S here on the bench that is driving me nuts. The Idle
>plate current runs away(goes off scale) in USB but will go as low
>as 80ma in LSB. I am convinced it has something to do with the
>Carrier balance adjustment on the IF board, but I am at an end. Any
>suggestions out there?
>I have tried new tubes and still the same thing. If I don't turn it
>off it will blow the fuse after a few minutes unless I leave the SG
>switch off. Then it does not blow the fuse.
>
>Thanks,
>Gordon
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>
>Yahoo! Groups Links
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21278. Fw: [RODE_ARC] Evento Especial KP3RE - Jesus T Pinero-special event

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-27 07:53:40 UTC
From: wp4wv@yahoo.com
Topic: 21278 Message: 21278

--- On Tue, 5/26/09, profesorjosevega <profesorjosevega@...> wrote:

From: profesorjosevega <profesorjosevega@...>
Subject: [RODE_ARC] Evento Especial KP3RE - Jesus T Pinero
To: RODE_ARC@yahoogroups.com
Date: Tuesday, May 26, 2009, 8:16 PM

El siguiente mensaje lo envie a varios "usergroups" en Yahoo a los que pertenezco. El mismo fue enviado en ingles para la circulacion general. Ademas los enlaces ya fueron actualizados con las fechas y horas del evento.

El mensaje lee como sigue:

"To all Radio Operators:

KP3RE Special Event Station – Jesus T. Piñero Museum

The "Radio Operadores del Este (RODE) Amateur Radio Club will be signing as KP3RE from 1300 UTC to 2000 UTC on 10-15 and 20 meters. The team will be using buddisticks, buddipoles and other antennas during the operation. Also, WARC bands (12 and 17 bands) will be used based on propagation conditions. The operation modes are: Voice, CW and digital (PSK31 and Hell). Look for the DX Spots on the Cluster.

The Special Event Station will commemorate Jesus T Piñero as a the first Puerto Rican Governor appointed by the President of the United States in 1948. Also, Mr. Piñero, was one of the few Amateur Radio operators in KP4 Land, during the first decades of the 20th century. The Special Event will take place at his home, at present a museum.
QSL via www.qrz.com and for more information regarding frequencies look under special events tab on http://kp3re. tripod.com.

73's and see you on the bands.

KP3RE Special Event Team"

[Non-text portions of this message have been removed]

21279. Re: TS-820S Run away Idle Current

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-27 13:45:01 UTC
From: w5rkl
Topic: 21270 Message: 21279

Morning Gordon,

Removing the driver tube did not produce the results in the Final
Unit that I expected.

Removing the driver tube essentially blocks the flow of any RF
signal from the IF Unit to the final amplifier which should have
resulted in a stable 60ma idling current in the final tubes. The
initial rise to 80ma then settling back to 60ma in the final
tubes is not normal.

Lou has a good point, check the final neutralization.

At this point I do not believe the balance modulator or any of the
4 diodes, D26 thru D29, are the source of the problem.

A check of the power supplies, using a scope, for the presence of
AC ripple should also be done.

I also would not rule out bad grounds whether through a mounting
screw on the PC boards or any of the many plug/pin connection.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, n6wk@... wrote:
>
> Hi Mike,
> Removing the Driver does help, but it still acts strange.
> When the driver tube is out and I check the idle IP, It at first
> may read 70 to 80 but then slowly goes back down to 60. If I wait a
> minute, do it again and it does the same thing. However, it no longer
> runs away and blows the fuse with the driver out.
> I turned the Mic gain all the way down and the compressor all the way
> down, even though it is OFF. There is NO Mic connected.
> Next step is to check the 4 diodes I guess.
> My Frequency Counter shows NO reading on the TIF terminal.
>
> 73,
> Gordon
>
>
>
>
> w5rkl wrote:
> >
> >
> > Afternoon Gordon,

> >
> > Removing ONLY the driver tube should cause the final IP idling
> > current to be normal, 60ma. If this is true then you can eliminate
> > the final amplifier as the source of the problem.
> >
> > Have you connected a scope and/or frequency counter to the IF Unit
> > IF-3 plug pin 2 connection (TIF)? If the TIF connection produces a
> > frequency of 8.8Mhz then the balance modulator is not balanced
> > allowing the carrier generator signal to mix with the VFO producing
> > the 8.8Mhz IF signal at the TIF connection even with no audio output
> > from the speech amplifier.
> >
> > Turn the MIC gain to minimum, remove any microphone from the front
> > panel MIC socket, adjust the carrier null for minimum RF. If the
> > problem is still there, then my initial thoughts are as follows:
> >
> > 1. Noise is being generated from the speech amplifier even with
> > minimum MIC gain setting.
> >
> > or
> >
> > 2. One or more diodes, D26, D27, D28, and/or D29 in the balance
> > modulator on the IF Unit have failed.
> >
> > Just a couple of thoughts.
> >
> > Mike W5RKL
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "Gordon" <n6wk@> wrote:
> > >
> > > I have an 820S here on the bench that is driving me nuts. The Idle
> > plate current runs away(goes off scale) in USB but will go as low as
> > 80ma in LSB. I am convinced it has something to do with the Carrier
> > balance adjustment on the IF board, but I am at an end. Any
> > suggestions out there?
> > > I have tried new tubes and still the same thing. If I don't turn it
> > off it will blow the fuse after a few minutes unless I leave the SG
> > switch off. Then it does not blow the fuse.
> > >
> > > Thanks,
> > > Gordon
> > >
> >
> >
>

21280. Re: [TS-520_820_530_830] Re: TS-820S Run away Idle Current

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-27 13:52:16 UTC
From: Gordon JC Pearce
Topic: 21270 Message: 21280

On Wed, 2009-05-27 at 13:45 +0000, w5rkl wrote:

> Lou has a good point, check the final neutralization.

Easy enough to check and worth doing *anyway*, but why would it make it only run away in USB? Or, am I misremembering the original problem...?

Gordon MM3YEQ

21281. Re: [TS-520_820_530_830] Re: TS-820S Run away Idle Current

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-27 20:37:47 UTC
From: Lou Blasco
Topic: 21270 Message: 21281

Hi Gordon,

The plate current should not vary without RF drive. Gordon also said
that the fuse blows unless he keeps the SG switch off. Without RF
drive, the only way that the tube current can vary is a bias
problem(supplies etc), bad tube(s) or an unstable final stage. I
believe that an unstable PA can sit there for some time then suddenly
burst into oscillation. These oscillations "can" make the tubes pull
a large amount of current, enough to blow the fuse and it can happen
in an instant. This follows Gordon's description of the fuse blowing
after a few minutes. Everything seems to point to the finals. I agree
that the difference in tube current between USB and LSB is puzzling
but the tube current does vary for both. Until the tube current is
stable and the fuse stops blowing I'd be looking around the PA.

Lou
VK3ALB

At 23:52 27/05/2009, you wrote:
>Easy enough to check and worth doing *anyway*, but why would it make it
>only run away in USB? Or, am I misremembering the original problem...?

21282. TS-820 RF Processor Inop

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-27 21:36:17 UTC
From: jsloss
Topic: 21282 Message: 21282

RF Proc switch pushed in - corrrect transmit modulation w/ normal ALC action. With switch pulled out no modulation or ALC action, regardless of where
Mic Gain and Comp controls are set.

COMP ON-OFF switch is good confirmed by swapping IF modules w/ another 820S.

Any ideas of a good starting point on the IF board?

Joe k7mks

[Non-text portions of this message have been removed]

21283. Re: [TS-520_820_530_830] Re: TS-820S Run away Idle Current

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-27 22:54:13 UTC
From: n6wk@n6wk.com
Topic: 21270 Message: 21283

Hi Mike, Gordon and Lou,
Well, looks like I had TWO problems.
I swapped out the finals with another used set and then started tightening all ground screws and removing, spraying with De-oxit, all the connectors. What I ended up finding is/was a broken wire coming off the RF board that goes to FG on the finals board. When that terminal lost contact, the Finals went WILD !
Once I replaced the little spring connector inside the plastic connector, I now no longer have run away Idle current.
There is a different idle current from USB to LSB by about 10ma but it is stable and I know I can get that part equal by doing the carrier balance adjustments. I have run into that before. Once the null is set, they will be equal again.
Thanks for the help. Now to go back and start the Alignment over.

73,
Gordon

w5rkl wrote:
>
>
> Morning Gordon,
>
> Removing the driver tube did not produce the results in the Final
> Unit that I expected.
>
> Removing the driver tube essentially blocks the flow of any RF
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> I also would not rule out bad grounds whether through a mounting
> screw on the PC boards or any of the many plug/pin connection.
>
> Mike W5RKL
>

> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, n6wk@... wrote:
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21284. Re: TS-820S Run away Idle Current

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-28 01:57:51 UTC
From: w5rkl
Topic: 21270 Message: 21284

That's great Gordon! I knew you would find the problem.

Anyway, congratulations Gordon and you are right, aligning the
sideband balance will fix the difference in the idling current.

I still have a slight PLL problem with my 820, USB sounds different
than LSB, not the same receive "tone" in receive. That's more than
likely the sideband balance which I have not gotten around to. One
of these days I'll put it on the bench.

By the way, I would recommend checking the AF AVR Unit's 9VDC on
AF1 pin 1 (adjust VR4) and 3.3VDC on AF2 pin 6 (adjust VR1).
If your 820 drifts a bit more than it should, replace Q7, 2SA496Y
and D5, 6.1V zener on the AF AVR Unit then readjust the 9VDC then
the 3.3VDC and you should see a significantly improvement in the
drift. I did that to my 820 and the drift is back to factory specs.

Anyway, congratulations Gordon.

73
Mike
W5RKL

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>
> Hi Mike, Gordon and Lou,
> Well, looks like I had TWO problems.
> I swapped out the finals with another used set and then started
> tightening all ground screws and removing, spraying with De-oxit, all
> the connectors. What I ended up finding is/was a broken wire coming off
> the RF board that goes to FG on the finals board. When that terminal
> lost contact, the Finals went WILD !
> Once I replaced the little spring connector inside the plastic
> connector, I now no longer have run away Idle current.
> There is a different idle current from USB to LSB by about 10ma but it
> is stable and I know I can get that part equal by doing the carrier
> balance adjustments. I have run into that before. Once the null is set,
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> Thanks for the help. Now to go back and start the Alignment over.
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21285. Re: [TS-520_820_530_830] Re: TS-820S Run away Idle Current

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-28 02:27:06 UTC
From: n6wk@n6wk.com
Topic: 21270 Message: 21285

Thanks Mike,
All has gone well until I get to the carrier Suppression adjustment.
The first part goes well.
I adjust for maximum output on 14.175, then switch to USB and adjust VR5
and TC2 for Minimum on my scope. No Problem there,
but when I switch to LSB, the reading on the scope is Way high and
nothing I do can get the two (USB & LSB) to be the same.
I did the Neutralization and that was easy. Just can't get the Carrier
Suppression to show the same on the scope. On the 830's i work on, I can
always get the USB and LSB to be exactly the same on the scope.
The Idle current is equal now on LSB or USB however.

73,
Gordon

w5rkl wrote:
>
>
> That's great Gordon! I knew you would find the problem.
>
> Anyway, congratulations Gordon and you are right, aligning the
> sideband balance will fix the difference in the idling current.
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21286. CAR 1 Adjustment for TP5 on IF unit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-28 03:20:25 UTC
From: trippkj4bkd
Topic: 21286 Message: 21286

Hello, to all.

Attempting to adjust CAR unit 1 x50-1310 to 50mv measured from TP5 on x48-1150. I am currently reading 3.5 to 5.5mv fluctuating with no adjustment. Now this is on the 200mv scale on my DVM. I may be mis-interpreting the reading not sure. However I can't find T1 on x50-1310 as it is under x50-1320 board and the holes thru from top baord 1320 to bottom board 1310 read USB,LSB and VR. I am not sure if one of theese is T1. If not.How do I get to it? I can see T1 on CAR unit 2.

Any advice is most appreciated.

Tripp

KJ4BKD

21287. Re: CAR 1 Adjustment for TP5 on IF unit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-28 03:29:11 UTC
From: Gordon
Topic: 21286 Message: 21287

Hi Tripp, First of all, you need to be using a VTVM or a scope to measure TP5

The Carrier unit has two screws. One from the RF Board side, and the other from the bottom. The complete unit will pull out, while still plugged in so that you can get to the underside of it and adjust the controls on CAR-1 as well as Car-2

Hope this helps,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "trippkj4bkd" <thomasenglish3@...> wrote:
>
> Hello, to all.
>
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> Any advice is most appreciated.
>
> Tripp
>
> KJ4BKD
>

21288. TS-820S/SB-200 works but not TS-830S/SB-200

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-28 13:46:12 UTC
From: k5xrf
Topic: 21288 Message: 21288

Hi, I've been using my TS-820S to successfully drive my SB-200 amplifier for quite a while now. I'm having a problem though when I attempt to drive my SB-200 with my TS-830S. The problem that I'm having is that whenever I connect the tip of the RCA jack of the relay control to the center conductor of the SB-200's relay jack it keys the amplifier (without making the common shell connection and with no ALC connection). Both the TS-830S and the SB-200 are connected to a common ground using the same method as the TS-820S. I've checked the cable that I bought against the figure in the TS-830S manual and have checked it for continuity and shorts. All seems OK. The cable's DIN connector is connected in the "remote" socket, the one next to the fuse holder.

Has anyone else had a similar problem? Any ideas on why I can interface the SB-200 with the TS-820S just fine but not the TS-830S? I'm still suspicious of the cable but wonder if it could be something else.
73,

Jon K5XRF

21289. Re: TS-820S/SB-200 works but not TS-830S/SB-200

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-28 17:18:02 UTC
From: w5rkl
Topic: 21288 Message: 21289

Hello Jon,

I suspect you have the 830's remote connections wired wrong.

The amplifier's relay should be wired between pins 1 or 4 and pin 5
on the 820's remote socket. Relay voltage to pin 5 and ground to
either pins 1 or 4. Pins 1 and 4 are ground.

The amplifier's relay should be wired between pins 2 and 4 on the
830's remote din socket.

73
Mike
W5RKL

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21290. TS-820 - Erratic VFO on 80 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-28 18:20:33 UTC
From: Jim
Topic: 21290 Message: 21290

I've come across an odd situation with my TS-820. What I'm about to describe only happens on 80 meters and only when the VFO frequency exceeds 3.899mhz.

If I go to this band from any other band and tune-up the band to say 3.920mhz, the vfo becomes erratic. Only a slight touch will send it to 4.000 or sometimes the digital display will completely blank out as does the receive audio. This does not appear to be just a quirky digital display because the receive frequency does change in step with the actual readout. I can ever so gently keep playing with the vfo knob and eventually I can to the frequency I want.

80meters is the only band that this happens. Everything else on this transceiver seems to be working very well. Any ideas on what might be making it do this on this band only?

I was also considering buying the TS-820's matching External VFO but wanted to first see if anyone had any thoughts on what it might be.

I don't think it is something as easy as a dirty bandswitch... I've jiggled it when I was up around 3.920 and it didn't seem to have any affect.

Thanks
Jim

21291. Re: [TS-520_820_530_830] TS-820 - Erratic VFO on 80 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-28 18:44:27 UTC
From: n6wk@n6wk.com
Topic: 21290 Message: 21291

Jim,
It sounds like the Wiper is dirty on the VFO.
The reason it probably only shows up on 80 meters that high up is
because none of the other bands except 10 or 15 meters would go that
high on the VFO scale to stay in the band.
Try it on 21.420 or 28.420 and see if it does the same thing. If so, I'd
look at cleaning the wiper.
There is an instruction PDF on my kenwood Files site that tells and
shows how to do it on the 820.

73,
Gordon

Jim wrote:
>
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> describe only happens on 80 meters and only when the VFO frequency
> exceeds 3.899mhz.
>
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> jiggled it when I was up around 3.920 and it didn't seem to have any
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> Thanks
> Jim
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21292. TS-830 and ATU Help

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-28 22:10:25 UTC
From: Gmail - Kevin, Natalia, Stacey & Rochelle
Topic: 21292 Message: 21292

Hi All,

I am in need of some help, advise really.

I have a TS-830 with no ATU.
I also have a TS-480S/AT with the built in ATU.

Okay I used to many years ago have a Dawia ATU (think thats spelt correctly), and when I upgraded my radio of the time to a Kenwood with the builtin ATU I decided to get rid of it, never thinking I might need it again.
Well here I am now with my TS-830 and a 80mtr full wave horizontal loop at 7mtrs above ground.
I require that ATU now to use it to it's fullest. I don't want to get too much into it but I have fed it directly with 50ohm coax. Some say open-wire, others say caox to a 4:1 balum, and other direct with coax.

The problem I have it, there are many types of ATUs, L-match, T-match and Z-match, and I am sure there are others. My search brought up these 3 mainly.
All three look fairly easy to build, but which one is the best for my equipment? What do others on this group prefer to use with their TS-830?

I could go out and buy one of those auto tuners from LDG Electronics, which appear to be fairly priced. Would save me mucking around with knobs.

Thanks for any advise given. BTW I do not have any parts for the ATU, but I have a ham equipment sale coming up in August which I know will have the stuff.

Regards

Kevin, ZL1KFM.

[Non-text portions of this message have been removed]

21293. Re: [TS-520_820_530_830] TS-830 and ATU Help

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-28 23:54:02 UTC
From: Joseph Lane
Topic: 21292 Message: 21293

Kenwood TS830 has a "pi" network.
Feed antenna with 50 ohm coax and balun.
73,

Joe

From: "Gmail - Kevin, Natalia, Stacey & Rochelle" <sparcnz@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, May 28, 2009 6:10:25 PM
Subject: [TS-520_820_530_830] TS-830 and ATU Help

Hi All,

I am in need of some help, advise really.

I have a TS-830 with no ATU.
I also have a TS-480S/AT with the built in ATU.

Okay I used to many years ago have a Dawia ATU (think thats spelt correctly), and when I upgraded my radio of the time to a Kenwood with the builtin ATU I decided to get rid of it, never thinking I might need it again.
Well here I am now with my TS-830 and a 80mtr full wave horizontal loop at 7mtrs above ground.
I require that ATU now to use it to it's fullest. I don't want to get too much into it but I have fed it directly with 50ohm coax. Some say open-wire, others say caox to a 4:1 balum, and other direct with coax.

The problem I have it, there are many types of ATUs, L-match, T-match and Z-match, and I am sure there are others. My search brought up these 3 mainly.
All three look fairly easy to build, but which one is the best for my equipment? What do others on this group prefer to use with their TS-830?

I could go out and buy one of those auto tuners from LDG Electronics, which appear to be fairly priced. Would save me mucking around with knobs.

Thanks for any advise given. BTW I do not have any parts for the ATU, but I have a ham equipment sale coming up in August which I know will have the stuff.

Regards

Kevin, ZL1KFM.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

21294. Re: [TS-520_820_530_830] TS-830 and ATU Help

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-29 00:45:57 UTC
From: Gmail - Kevin, Natalia, Stacey & Rochelle
Topic: 21292 Message: 21294

Joe,

Thanks for your reply.
I did understand about the "pi" tuner inside the radio for tuning the tube, but I did not know I could use this for the antenna.

Next question, what would be the recommendation for the balum, a 1:1 or 4:1, I have both available.

Regards

Kevin.

----- Original Message -----
From: Joseph Lane
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, May 29, 2009 11:54 AM
Subject: Re: [TS-520_820_530_830] TS-830 and ATU Help

Kenwood TS830 has a "pi" network.
Feed antenna with 50 ohm coax and balun.
73,

Joe

_____
From: "Gmail - Kevin, Natalia, Stacey & Rochelle" <sparcnz@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, May 28, 2009 6:10:25 PM
Subject: [TS-520_820_530_830] TS-830 and ATU Help

Hi All,

I am in need of some help, advise really.

I have a TS-830 with no ATU.
I also have a TS-480S/AT with the built in ATU.

Okay I used to many years ago have a Dawia ATU (think thats spelt correctly), and when I upgraded my radio of the time to a Kenwood with the builtin ATU I decided to get rid of it, never thinking I might need it again.
Well here I am now with my TS-830 and a 80mtr full wave horizontal loop at 7mtrs above ground.
I require that ATU now to use it to it's fullest. I don't want to get too much into it but I have fed it directly with 50ohm coax. Some say open-wire, others say caox to a 4:1 balum, and other direct with coax.

The problem I have it, there are many types of ATUs, L-match, T-match and Z-match, and I am sure there are others. My search brought up these 3 mainly.
All three look fairly easy to build, but which one is the best for my equipment? What do others on this group prefer to use with their TS-830?

I could go out and buy one of those auto tuners from LDG Electronics, which appear to be fairly priced. Would save me mucking around with knobs.

Thanks for any advise given. BTW I do not have any parts for the ATU, but I have a ham equipment sale coming up in August which I know will have the stuff.

Regards

Kevin, ZL1KFM.

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[Non-text portions of this message have been removed]

21295. Re: [TS-520_820_530_830] TS-830 and ATU Help

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-29 00:53:05 UTC
From: Lou Blasco
Topic: 21292 Message: 21295

The feed point impedance of a dipole is around 72 ohm so using a 1:1
balun will get you in the ballpark. The matching stage in the 830
will handle this setup with ease.

Regards

Lou
VK3ALB

At 10:45 29/05/2009, you wrote:
>Joe,
>
>Thanks for your reply.
>I did understand about the "pi" tuner inside the radio for tuning
>the tube, but I did not know I could use this for the antenna.
>
>Next question, what would be the recommendation for the balum, a 1:1
>or 4:1, I have both available.
>
>Regards
>
>Kevin.
>
> ----- Original Message -----
> From: Joseph Lane
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, May 29, 2009 11:54 AM
> Subject: Re: [TS-520_820_530_830] TS-830 and ATU Help
>
>
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>
>
>
> Kenwood TS830 has a "pi" network.
> Feed antenna with 50 ohm coax and balun.
> 73,
>
> Joe
>
> _____
> From: "Gmail - Kevin, Natalia, Stacey & Rochelle" <sparcnz@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, May 28, 2009 6:10:25 PM
> Subject: [TS-520_820_530_830] TS-830 and ATU Help
>
> Hi All,

>
> I am in need of some help, advise really.
>
> I have a TS-830 with no ATU.
> I also have a TS-480S/AT with the built in ATU.
>
> Okay I used to many years ago have a Dawia ATU (think thats spelt
> correctly), and when I upgraded my radio of the time to a Kenwood
> with the builtin ATU I decided to get rid of it, never thinking I
> might need it again.
> Well here I am now with my TS-830 and a 80mtr full wave
> horizontal loop at 7mtrs above ground.
> I require that ATU now to use it to it's fullest. I don't want to
> get too much into it but I have fed it directly with 50ohm coax.
> Some say open-wire, others say caox to a 4:1 balum, and other direct with coax.
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> The problem I have it, there are many types of ATUs, L-match,
> T-match and Z-match, and I am sure there are others. My search
> brought up these 3 mainly.
> All three look fairly easy to build, but which one is the best
> for my equipment? What do others on this group prefer to use with their TS-830?
>
> I could go out and buy one of those auto tuners from LDG
> Electronics, which appear to be fairly priced. Would save me
> mucking around with knobs.
>
> Thanks for any advise given. BTW I do not have any parts for the
> ATU, but I have a ham equipment sale coming up in August which I
> know will have the stuff.
>
> Regards
>
> Kevin, ZL1KFM.
>
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>Yahoo! Groups Links
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21296. Re: TS-830 and ATU Help

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-29 04:43:49 UTC
From: oz1hyi
Topic: 21292 Message: 21296

--- In TS-520_820_530_830@yahoogroups.com, Lou Blasco <radio@...> wrote:
>
> The feed point impedance of a dipole is around 72 ohm so using a 1:1
> balun will get you in the ballpark. The matching stage in the 830
> will handle this setup with ease.
>
> Regards
>
> Lou
> VK3ALB
>
> At 10:45 29/05/2009, you wrote:
> >Joe,
> >
> >Thanks for your reply.
> >I did understand about the "pi" tuner inside the radio for tuning
> >the tube, but I did not know I could use this for the antenna.
> >
> >Next question, what would be the recommendation for the balum, a 1:1
> >or 4:1, I have both available.
> >
> >Regards
> >
> >Kevin.
> >
> > ----- Original Message -----
> > From: Joseph Lane
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Friday, May 29, 2009 11:54 AM
> > Subject: Re: [TS-520_820_530_830] TS-830 and ATU Help
> >
> >
> >
> >
> >
> >
> > Kenwood TS830 has a "pi" network.
> > Feed antenna with 50 ohm coax and balun.
> > 73,
> >
> > Joe
> >
> > _____
> > From: "Gmail - Kevin, Natalia, Stacey & Rochelle" <sparcnz@...>
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Thursday, May 28, 2009 6:10:25 PM

> > Subject: [TS-520_820_530_830] TS-830 and ATU Help
> >
> > Hi All,
> >
> > I am in need of some help, advise really.
> >
> > I have a TS-830 with no ATU.
> > I also have a TS-480S/AT with the built in ATU.
> >
> > Okay I used to many years ago have a Dawia ATU (think thats spelt
> > correctly), and when I upgraded my radio of the time to a Kenwood
> > with the builtin ATU I decided to get rid of it, never thinking I
> > might need it again.
> > Well here I am now with my TS-830 and a 80mtr full wave
> > horizontal loop at 7mtrs above ground.
> > I require that ATU now to use it to it's fullest. I don't want to
> > get too much into it but I have fed it directly with 50ohm coax.
> > Some say open-wire, others say caox to a 4:1 balum, and other direct with coax.
> >
> > The problem I have it, there are many types of ATUs, L-match,
> > T-match and Z-match, and I am sure there are others. My search
> > brought up these 3 mainly.
> > All three look fairly easy to build, but which one is the best
> > for my equipment? What do others on this group prefer to use with their TS-830?
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> > I could go out and buy one of those auto tuners from LDG
> > Electronics, which appear to be fairly priced. Would save me
> > mucking around with knobs.
> >
> > Thanks for any advise given. BTW I do not have any parts for the
> > ATU, but I have a ham equipment sale coming up in August which I
> > know will have the stuff.
> >
> > Regards
> >
> > Kevin, ZL1KFM.
> >
> > [Non-text portions of this message have been removed]
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> >[Non-text portions of this message have been removed]
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> >
> >Yahoo! Groups Links
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>

Hi.. I'm using the Kenwood AT 230..it works great with my homemade Off center dipol for 160m hanging about 8m over ground.. Before I got the 230, i used a homemade z-match, but it could not operate on 160, so i build a CLC match, and it worked fine.. but.. still have 3 handles to move when mowing from one band to another,, maybee a autotuner can do the job,,

Vy 73 de OZ1HYI Willy

21297. RE: [TS-520_820_530_830] TS-820 - Erratic VFO on 80 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-29 11:52:16 UTC
From: pierre@iprimus.com.au
Topic: 21290 Message: 21297

Jim,

See "VFO Tuning Capacitor Noise & Dropout" on this website page:

http://www.k4eaa.com/examples.html

for a description of the problem you are experiencing and a way to fix same.

Regards,

Pierre

>-- Original Message --
>To: TS-520_820_530_830@yahoogroups.com
>From: "Jim" <n4ce_patterson@...>
>Date: Thu, 28 May 2009 18:20:33 -0000
>Subject: [TS-520_820_530_830] TS-820 - Erratic VFO on 80 meters
>Reply-To: TS-520_820_530_830@yahoogroups.com
>
>
>I've come across an odd situation with my TS-820. What I'm about to describe
>only happens on 80 meters and only when the VFO frequency exceeds 3.899mhz.
>
>
>If I go to this band from any other band and tune-up the band to say 3.920mhz,
>the vfo becomes erratic. Only a slight touch will send it to 4.000 or sometimes
>the digital display will completely blank out as does the receive audio.
> This does not appear to be just a quirky digital display because the receive
>frequency does change in step with the actual readout. I can ever so gently
>keep playing with the vfo knob and eventually I can to the frequency I want.
>
>80meters is the only band that this happens. Everything else on this transceiver
>seems to be working very well. Any ideas on what might be making it do
this
>on this band only?
>
>I was also considering buying the TS-820's matching External VFO but wanted
>to first see if anyone had any thoughts on what it might be.
>
>I don't think it is something as easy as a dirty bandswitch... I've jiggled
>it when I was up around 3.920 and it didn't seem to have any affect.
>
>Thanks
>Jim
>

21298. Scam Warning to User Group

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-29 05:09:31 UTC
From: Bob
Topic: 21298 Message: 21298

Just wanted to warn everybody on this users group to be careful about scammers. I got louered in by one that posed as tho his house burned down and that he lost all his equipment in the aledged fire. Hopefully he won't reappear, but if he does, his name is:

John Acuff
3284 N.Co. Rd. 275 E.
Logansport, IN 46947

This guy told his story on this user group in an effort to get equipment from unsuspecting, well intended hams, to regain some of his losses. Of course, this turned out to be bogus.

In good faith, I sent this guy a TS-520 free of charge and he was to reimburse the shipping...Never heard from him again. Needless to say, I feel pretty foolish.

Anyway, just wanted to let everyone know that this guy is a con artist...be careful!

Bob

21299. Capacitor Replacement on TS-530s C23 & C24

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-29 13:19:07 UTC
From: Peter
Topic: 21299 Message: 21299

I recently purchased a TS-530s. One of the two capacitors had been very poorly replaced with a 100 mf and 85 mf caps in some sort of series piled high with glue gun glue or silicone goo. The other cap is the original and looks tired. I would like to replace them both. Unfortunately for a novice like me there are changes to the wire colors and locations that make repair more difficult. Can someone guide me with this repair. I am concerned about getting the polarity correct and ensuring that the resistors and small disc caps are installed correctly. The existing red & green wires may now be too short and may need replacement. The best pictures I have found are on http://www.elisanet.fi/oh5fad/ts530/ts530.html#gallery I purchased the new parts kit from Ken at K4EAA. I have a hard time reading or following the schematics for this modular design. Great radio! I would like to get it up & running. Thanks & 73, Peter. KC2RBX

21300. Tuning an SB-200 when driving with a TS-830s or TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-29 16:21:56 UTC
From: Joe McGerald
Topic: 21300 Message: 21300

OK, this may sound a bit stupid, but I need to ask to keep from frying something.

I have an SB-200 that I generally drive with a S/S rig, so at the moment I don't tune the rig at all.

I would like to drive it with either my TS-830s or my 520. If I tune the 830s with the amp off, then I'm balancing the PI network in the transceiver to the antenna, which is not exactly 50 ohms. Once I turn on the amp, then the xcvr is seeing a 50 ohm load.

What is the proper sequence?

Thanks and 73.
Joe
AF6NI

21301. Question regarding resonant receiving antennas

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-29 18:30:16 UTC
From: James Fogg
Topic: 21301 Message: 21301

I'm new to HF and I use an 80M inverted V antenna and a MFJ Versa Tuner 2 (948) connected to a TS-530S.

I get good results on 80M and OK results on 40M. The higher I go the more deaf my radio becomes. On 20M I hear stations fade in and fade out but they don't stay around long (3 minutes maybe?). I have yet to hear anything on 10M.

My question is should I be looking at aligning my receiver or using a resonant antenna?

Also, in the current propagation climate I don't know what to expect from the higher bands. I've heard people say the are having good luck on 20M.

--
James -

21302. Re: [TS-520_820_530_830] Tuning an SB-200 when driving with a TS-830s or TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-29 19:45:20 UTC
From: martin
Topic: 21300 Message: 21302

Hi Joe. You should always tune the transceiver into a 50 ohm dummy load. The amp too. The only on-air tuning you should do is to set an antenna tuner (if you use one). Keep key down times while tuning to 10 seconds or less, and at least 30 seconds in between.

TTYL

Joe McGerald wrote:
> OK, this may sound a bit stupid, but I need to ask to keep from
> frying something.
>
> I have an SB-200 that I generally drive with a S/S rig, so at the
> moment I don't tune the rig at all.
>
> I would like to drive it with either my TS-830s or my 520. If I
> tune the 830s with the amp off, then I'm balancing the PI network
> in the transceiver to the antenna, which is not exactly 50 ohms.
> Once I turn on the amp, then the xcvr is seeing a 50 ohm load.
>
> What is the proper sequence?
>
> Thanks and 73. Joe AF6NI
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at http://www.defectivebydesign.org/what_is_drm"

21303. Re: [TS-520_820_530_830] Question regarding resonant receiving antennas

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-29 20:27:53 UTC
From: Dave ve3wej
Topic: 21301 Message: 21303

you already answered yourself on this one. your antenna is a 80 meter, no wonder it does not work great on 20, etc

use a resonant antenna or a multiband antenna

----- Original Message -----
From: "James Fogg" <james@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, May 29, 2009 2:30 PM
Subject: [TS-520_820_530_830] Question regarding resonant receiving antennas

> I'm new to HF and I use an 80M inverted V antenna and a MFJ Versa Tuner 2
> (948) connected to a TS-530S.
>
> I get good results on 80M and OK results on 40M. The higher I go the more
> deaf my radio becomes. On 20M I hear stations fade in and fade out but
> they don't stay around long (3 minutes maybe?). I have yet to hear
> anything on 10M.
>
> My question is should I be looking at aligning my receiver or using a
> resonant antenna?
>
> Also, in the current propagation climate I don't know what to expect from
> the higher bands. I've heard people say the are having good luck on 20M.
>
>
> --
> James -
>
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> Yahoo! Groups Links
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21304. Re: Question regarding resonant receiving antennas

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-29 21:59:23 UTC
From: w5rkl
Topic: 21301 Message: 21304

Dave's right. An 80 meter antenna will not perform very well on
20 meters, even with a tuner.

Dipoles are very good antennas for single band operation but not
for multi band operation.

A G5RV will perform quite well as an all band antenna with a tuner.
However, it must be erected properly in order to achieve good
performance. Lack of space, bending the ends down, and wrapping
the 450 ohm stub around a tree, all affect the G5RV's radiation
pattern and it's ability to perform properly. It is true the G5RV's
primary frequency is 20 meters. However, even on 20 meters, if it's
not erected properly, performance will be dramatically reduced.

For multi band operation, especially on 20 and above, a yagi
mounted on a tower or a sturdy pole, mounted at last one half wave
length above ground, is a good choice.

Having said that, one can spend thousands of dollars on antennas
yet be very disappointed in its performance all because the antenna
was not erected properly. In many cases it is not the fault of the
antenna but how the antenna, feed line, grounding, etc, was
installed.

I recommend you take some time and read up on the different types
of antennas. The ARRL Antenna Handbook and/or the ARRL Handbook, both
are usually available at your local library, are excellent sources
of information on antennas, feed lines, and support structures. Also
consider reading up on grounding and lightning protection, all of
which should not be neglected when erecting your antenna.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@...> wrote:
>
> you already answered yourself on this one. your antenna is a 80 meter, no
> wonder it does not work great on 20, etc
>
> use a resonant antenna or a multiband antenna
>
>
>
> ----- Original Message -----
> From: "James Fogg" <james@...>
> To: <TS-520_820_530_830@yahoogroups.com>

> Sent: Friday, May 29, 2009 2:30 PM
> Subject: [TS-520_820_530_830] Question regarding resonant receiving antennas
>
>
> > I'm new to HF and I use an 80M inverted V antenna and a MFJ Versa Tuner 2
> > (948) connected to a TS-530S.
> >
> > I get good results on 80M and OK results on 40M. The higher I go the more
> > deaf my radio becomes. On 20M I hear stations fade in and fade out but
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> > My question is should I be looking at aligning my receiver or using a
> > resonant antenna?
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> > Also, in the current propagation climate I don't know what to expect from
> > the higher bands. I've heard people say the are having good luck on 20M.
> >
> >
> > --
> > James -
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> > Yahoo! Groups Links
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21305. Re: [TS-520_820_530_830] Scam Warning to User Group

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-30 00:01:04 UTC
From: amfone
Topic: 21298 Message: 21305

Wow
Sorry to hear that.

Tim

--- On Fri, 5/29/09, Bob <bob4analog@yahoo.com> wrote:

From: Bob <bob4analog@...>
Subject: [TS-520_820_530_830] Scam Warning to User Group
To: TS-520_820_530_830@yahoogroups.com
Date: Friday, May 29, 2009, 1:09 AM

Just wanted to warn everybody on this users group to be careful about scammers. I got louered in by one that posed as tho his house burned down and that he lost all his equipment in the aledged fire. Hopefully he won't reappear, but if he does, his name is:

John Acuff

3284 N.Co. Rd. 275 E.

Logansport, IN 46947

This guy told his story on this user group in an effort to get equipment from unsuspecting, well intended hams, to regain some of his losses. Of course, this turned out to be bogus.

In good faith, I sent this guy a TS-520 free of charge and he was to reimburse the shipping...Never heard from him again. Needless to say, I feel pretty foolish.

Anyway, just wanted to let everyone know that this guy is a con artist...be careful!

Bob

[Non-text portions of this message have been removed]

21306. Re: [TS-520_820_530_830] Scam Warning to User Group

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-30 02:04:30 UTC
From: Bob
Topic: 21298 Message: 21306

Thanx for your thoughts. Just wanted to mention it so that nobody else gets 'burned'. There's too many nice hams out there that these kinda folks take anvantage of. Don't wanna see that happen.

73,

Bob

--- On Fri, 5/29/09, amfone <amfone20000@...> wrote:
 Wow
Sorry to hear that.

Tim

--- On Fri, 5/29/09, Bob <bob4analog@yahoo. com> wrote:

Just wanted to warn everybody on this users group to be careful about scammers. I got louered in by one that posed as tho his house burned down and that he lost all his equipment in the aledged fire. Hopefully he won't reappear, but if he does, his name is:

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Bob

21307. Re: [TS-520_820_530_830] Question regarding resonant receiving antennas

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-30 03:12:34 UTC
From: Marucs Rodgers Sr.
Topic: 21301 Message: 21307

Try a fan dipole they are easy to make,or a antron 99 will work well on 20 meters with a tuner. A good ground is very important and the higher your antenna the better All of my antennas are flat top,for me they work better than inverted vees AB8WR Marcus

--- On Fri, 5/29/09, James Fogg <james@jdfogg.com> wrote:

> From: James Fogg <james@...>
> Subject: [TS-520_820_530_830] Question regarding resonant receiving antennas
> To: TS-520_820_530_830@yahoogroups.com
> Date: Friday, May 29, 2009, 2:30 PM
> I'm new to HF and I use an 80M
> inverted V antenna and a MFJ Versa Tuner 2
> (948) connected to a TS-530S.
>
> I get good results on 80M and OK results on 40M. The higher
> I go the more
> deaf my radio becomes. On 20M I hear stations fade in and
> fade out but
> they don't stay around long (3 minutes maybe?). I have yet
> to hear
> anything on 10M.
>
> My question is should I be looking at aligning my receiver
> or using a
> resonant antenna?
>
> Also, in the current propagation climate I don't know what
> to expect from
> the higher bands. I've heard people say the are having good
> luck on 20M.
>
>
> --
> James -
>
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>

> mailto:TS-520_820_530_830-fullfeatured@yahoogroups.com
>
>
>

21308. Re: [TS-520_820_530_830] Scam Warning to User Group

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-30 05:24:44 UTC
From: Adrian Ellison
Topic: 21298 Message: 21308

Hello Bob,

This was a while ago but I remember it, and I remember your kind generosity too.

Perhaps you should pop around to Logansport and make sure his house burnt down, if you know what I mean :-)

Jokes aside, I'm saddened to hear of this.

73 de Adrian - ZS1TTZ

On Friday 29 May 2009 07:09:31 Bob wrote:
> Just wanted to warn everybody on this users group to be careful about
> scammers. I got louered in by one that posed as tho his house burned down
> and that he lost all his equipment in the aledged fire. Hopefully he won't
> reappear, but if he does, his name is:
>
> John Acuff
> 3284 N.Co. Rd. 275 E.
> Logansport, IN 46947
>
> This guy told his story on this user group in an effort to get equipment
> from unsuspecting, well intended hams, to regain some of his losses. Of
> course, this turned out to be bogus.
>
> In good faith, I sent this guy a TS-520 free of charge and he was to
> reimburse the shipping...Never heard from him again. Needless to say, I
> feel pretty foolish.
>
> Anyway, just wanted to let everyone know that this guy is a con artist...be
> careful!
>
> Bob

21309. Re: [TS-520_820_530_830] Scam Warning to User Group

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-30 08:23:45 UTC
From: Gordon JC Pearce
Topic: 21298 Message: 21309

On Sat, 2009-05-30 at 07:24 +0200, Adrian Ellison wrote:
> Hello Bob,
>
> This was a while ago but I remember it, and I remember your kind generosity
> too.
>
> Perhaps you should pop around to Logansport and make sure his house burnt
> down, if you know what I mean :-)
>
> Jokes aside, I'm saddened to hear of this.

They do say there are three sides to every story - yours, his and the
truth ;-)

Someone suitably near that part of the world could easily lift the phone
and ask this John Acuff what his take on it is, in the interest of
fairness.

Gordon MM3YEQ

21310. Re: [TS-520_820_530_830] Scam Warning to User Group

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-30 09:47:20 UTC
From: van lincoln
Topic: 21298 Message: 21310

From: John A <john@...>
X-Yahoo-Profile: jacuff1aw
Sender: TS-520_820_530_830@yahoogroups.com
MIME-Version: 1.0
Mailing-List: list TS-520_820_530_830@yahoogroups.com; contact
TS-520_820_530_830-owner@yahoogroups.com
Delivered-To: mailing list TS-520_820_530_830@yahoogroups.com
List-Id: <TS-520_820_530_830.yahoogroups.com>
Precedence: bulk
List-Unsubscribe: <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com>
Date: Sat, 14 Mar 2009 13:48:10 -0400
Subject: [TS-520_820_530_830] Leaving the group

Well it looks like I will be leaving the group. I lost my barn in a
fire this week in the early morning hours. We think it was a
lightning hit that started it. Anyway, most of my station was in my
shop in the lower level of the barn, including my beloved TS-520S. I
also lost my Yaesu FT-101E and late FT-101ZD, two old tube amps, my
big power supply, several D104 mikes, antenna switch, cantenna, and
my meters and test equipment. In fact the only Kenwood gear I have
left is my TS-700 which I know is OT for this group. I am now HF
radio-less entirely. And of course I also lost a 50 year collection
of tools and shop equipment, three motorcycles, and my wife's car
that I had in the shop to work on. The barn actually belonged to my
aunt, so I had no insurance on the building, and my homeowners won't
cover most of what was there including my ham gear.
I just want to say thanks for having me. I have enjoyed my time here,
and have learned a lot.
73's
John

correct google address:
(view his farm by google/map/satellite view)
John Acuff
3284 N County Rd-275 E,
Logansport, Cass, Indiana
46947

telephone:

John Acuff
3284 N County Rd 275 E
Logansport, IN 46947
(574) 722-1333

local group membership

Cass County Amateur Radio Club -
Operating the W9VMW Repeaters ...
Member, John Acuff, KC9LCA.
Member, Jerry Anderson, WA9KTZ.
Member, Charles Azbell, KF9KR ...
P.O. Box 1092
Logansport, Indiana 46947 ...
http://www.w9vmw.org/

If you really look on the internet,
the information is all there.

At 05:09 5/29/2009, you wrote:

>Just wanted to warn everybody on this users group to be careful
>about scammers. I got louered in by one that posed as tho his house
>burned down and that he lost all his equipment in the aledged fire.
>Hopefully he won't reappear, but if he does, his name is:

>John Acuff
>3284 N.Co. Rd. 275 E.
>Logansport, IN 46947

>This guy told his story on this user group in an effort to get
>equipment from unsuspecting, well intended hams, to regain some of
>his losses. Of course, this turned out to be bogus.
>In good faith, I sent this guy a TS-520 free of charge and he was to
>reimburse the shipping...Never heard from him again. Needless to
>say, I feel pretty foolish.
>Anyway, just wanted to let everyone know that this guy is a con
>artist...be careful!
>Bob

[Non-text portions of this message have been removed]

21311. Re: [TS-520_820_530_830] Scam Warning to User Group

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-30 12:15:13 UTC
From: Dave and Loraine
Topic: 21298 Message: 21311

This should have been handled better.
Would the Moderators please advise.
Thanks
Dave f4eyk

21312. Re: [TS-520_820_530_830] Question regarding resonant receiving antennas

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-30 12:33:00 UTC
From: James Fogg
Topic: 21301 Message: 21312

> Try a fan dipole they are easy to make,or a antron 99 will work well on 20
> meters with a tuner. A good ground is very important and the higher your
> antenna the better All of my antennas are flat top,for me they work better
> than inverted vees AB8WR Marcus

I've been looking at fan dipoles from the start. I should have built mine as a fan. I didn't understand the value of resonance for a receiving antenna. Since things like random long wires are used in SWL I assumed that it wasn't critical. Of course, SW broadcasters are using power levels many times greater, too.

--
James -

21313. Re: [TS-520_820_530_830] Question regarding resonant receiving antennas

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-30 10:08:31 UTC
From: Mike Rodgers
Topic: 21301 Message: 21313

are you using open feed or coax?if coax try open feed line if your tuner has place for open balanced line.i love 10m but your not going to hear anything there right now except before a thunder storm.if you need info on ladder line ,do a search or i can provide you place to look.
search for a article"the lure of ladder line".it cannot run alongside metal objects like gutters but can pass by them.....73.....mike
  p.s. if your using coax your losing a lot on tx and rx on 20,15,10 and maybe 40 too if your
inverted v is cut for 80.high swr equals high loss in coax.the tuner makes your rig happy.
--- On Fri, 5/29/09, Marucs Rodgers Sr. <kc8pxs618@...> wrote:

From: Marucs Rodgers Sr. <kc8pxs618@...>
Subject: Re: [TS-520_820_530_830] Question regarding resonant receiving antennas
To: TS-520_820_530_830@yahoogroups.com
Date: Friday, May 29, 2009, 10:12 PM

Try a fan dipole they are easy to make,or a antron 99 will work well on 20 meters with a tuner. A good ground is very important and the higher your antenna the better All of my antennas are flat top,for me they work better than inverted vees AB8WR Marcus

--- On Fri, 5/29/09, James Fogg <james@jdfogg. com> wrote:

> From: James Fogg <james@jdfogg. com>
> Subject: [TS-520_820_ 530_830] Question regarding resonant receiving antennas
> To: TS-520_820_530_ 830@yahoogroups. com
> Date: Friday, May 29, 2009, 2:30 PM
> I'm new to HF and I use an 80M
> inverted V antenna and a MFJ Versa Tuner 2
> (948) connected to a TS-530S.
>
> I get good results on 80M and OK results on 40M. The higher
> I go the more
> deaf my radio becomes. On 20M I hear stations fade in and
> fade out but
> they don't stay around long (3 minutes maybe?). I have yet
> to hear
> anything on 10M.
>
> My question is should I be looking at aligning my receiver
> or using a
> resonant antenna?
>
> Also, in the current propagation climate I don't know what
> to expect from
> the higher bands. I've heard people say the are having good

> luck on 20M.
>
>
> --
> James -
>
>
>
>
>
> ------------ --------- --------- ------
>
> Yahoo! Groups Links
>
>
>   mailto:TS-520_820_530_ 830-fullfeatured @yahoogroups. com
>
>
>

[Non-text portions of this message have been removed]

21314. Re: [TS-520_820_530_830] Question regarding resonant receiving antennas

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-30 14:06:23 UTC
From: Dave ve3wej
Topic: 21314 Message: 21314

take a look at the dxcc by alpha delta. I use that and a dx-ee and they work well when "tweaked"

----- Original Message -----
From: "James Fogg" <james@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, May 30, 2009 8:33 AM
Subject: Re: [TS-520_820_530_830] Question regarding resonant receiving antennas

>> Try a fan dipole they are easy to make,or a antron 99 will work well on
>> 20
>> meters with a tuner. A good ground is very important and the higher your
>> antenna the better All of my antennas are flat top,for me they work
>> better
>> than inverted vees AB8WR Marcus
>
>
> I've been looking at fan dipoles from the start. I should have built mine
> as a fan. I didn't understand the value of resonance for a receiving
> antenna. Since things like random long wires are used in SWL I assumed
> that it wasn't critical. Of course, SW broadcasters are using power levels
> many times greater, too.
>
> --
> James -
>
>
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
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>

21315. Re: [TS-520_820_530_830] Scam Warning to User Group

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-30 14:49:15 UTC
From: WA6RKN
Topic: 21298 Message: 21315

I think the topic is spot on, and has been handled quite well.

No one likes to be taken advantage of...and it is good that incidences like this one, are discussed publicly, in interest groups like this one.

I always love those few individuals who, if they don't like a subject, try and subject the rest of us to observe their desires to omit, edit, or just plain censor, a topic.

Just a reminder...one does NOT have to read a topic, if they don't wish to do so.

Now...some topics *can* drag out...that is because many people don't read a group on a daily, or even a weekly basis...so they add their comments to a topic that should have died a normal death, many posts past. Or, they have many messages to read each visit tot he computer and even though a topic has been shelved, they don't see any group warning notices until 50 or 100, or 200 messages later. But eventually, even the most visited topic will die, without intervention.

Just my thoughts....

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: "Dave and Loraine" <dave.crooks@...>
Subject: Re: [TS-520_820_530_830] Scam Warning to User Group

> This should have been handled better.
> Would the Moderators please advise.

21316. TS820S Poor Tx on LSB

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-30 17:10:13 UTC
From: Neil McGrath
Topic: 21316 Message: 21316

I have had my TS820S for a while but have only recently put up an antenna for the lower bands. As I have tried to use LSB for the first time I have noticed that the TX audio sounds tinny compare to USB, when monitored via the headphone jack. There is also some distortion. Not surprisingly I have not had any successful contacts using LSB. USB works fine but does sound like it has slightly too much bass.

Any suggestions on how to adjust the modulation?

Neil
G7AQK

21317. Re: TS820S Poor Tx on LSB

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-30 22:31:10 UTC
From: w5rkl
Topic: 21316 Message: 21317

Hello Neil,

My initial thought is the sideband balance adjustment needs attention
and/or CAR1 and CAR2 in the PLL needs attention. These adjustments
are all in the 820's service manual.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Neil McGrath" <g7aqk.uk@...> wrote:
>
> I have had my TS820S for a while but have only recently put up an antenna for the lower bands. As I have tried to use LSB for the first time I have noticed that the TX audio sounds tinny compare to USB, when monitored via the headphone jack. There is also some distortion. Not surprisingly I have not had any successful contacts using LSB. USB works fine but does sound like it has slightly too much bass.
>
> Any suggestions on how to adjust the modulation?
>
> Neil
> G7AQK
>

21318. ts 530sp if out

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-30 23:08:46 UTC
From: davidbennett92
Topic: 21318 Message: 21318

Hello all,
I am in the process of setting up my 530 station. It appears that i have some work to do to use the sm 220 on my ts 530sp. Has anyone had any experience with Getting the if conections set up so i can conect to the sm 220. They are not installed from new . I have the paperwork for getting the signal out of my 520 but not the 530sp. It needs 2 one for the v input and one for the pan adaptor. I also think that they are different level signals aswell from reading the 830 book. Also has anyone ever built or adapted another pan adaptor to do the job of the bs-5. Any help is greatly appreciated
Thanks
David VK2DV

21319. Re: ts 530sp if out

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-31 02:03:46 UTC
From: w5rkl
Topic: 21318 Message: 21319

The TS-520, TS-520S. and TS-520SE have an IF frequency of
3.395Mhz which is compatible with the BS-5.

The TS-530, TS-820, and TS-830 have an IF frequency of 8.830Mhz which
is compatible with the BS-8.

Unfortunately the BS-5 is not compatible with the TS-530.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "davidbennett92" <windman@...> wrote:
>
> Hello all,
> I am in the process of setting up my 530 station. It appears that i have some work to do to use the sm 220 on my ts 530sp. Has anyone had any experience with Getting the if conections set up so i can conect to the sm 220. They are not installed from new . I have the paperwork for getting the signal out of my 520 but not the 530sp. It needs 2 one for the v input and one for the pan adaptor. I also think that they are different level signals aswell from reading the 830 book. Also has anyone ever built or adapted another pan adaptor to do the job of the bs-5. Any help is greatly appreciated
> Thanks
> David VK2DV
>

21320. Re: TS-820S/SB-200 works but not TS-830S/SB-200

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-31 06:39:09 UTC
From: k5xrf
Topic: 21288 Message: 21320

Mike,

Thanks for the reply. I had a chance today to take off the TS-830S' covers today and trace the wires of the external connector. Each wire for the relay connects on the external DIN socket terminates to the relay socket correctly. I checked continuity without the relay in place and everything looks good. I didn't see any other wires connected on either the external DIN socket or the relay socket for the contacts used to control an amplifier.

After I buttoned everything up and reconnected the cable I didn't see any continuity on the external DIN connector's relay contacts when keying the transmitter. I'm not sure what's going on. I'll have to take a closure look with the covers off tomorrow. Any ideas?
73,

Jon K5XRF

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello Jon,
>
> I suspect you have the 830's remote connections wired wrong.
>
> The amplifier's relay should be wired between pins 1 or 4 and pin 5
> on the 820's remote socket. Relay voltage to pin 5 and ground to
> either pins 1 or 4. Pins 1 and 4 are ground.
>
> The amplifier's relay should be wired between pins 2 and 4 on the
> 830's remote din socket.
>
> 73
> Mike
> W5RKL
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "k5xrf" <k5xrf@> wrote:
> >
> > Hi, I've been using my TS-820S to successfully drive my SB-200 amplifier for quite a while now. I'm having a problem though when I attempt to drive my SB-200 with my TS-830S. The problem that I'm having is that whenever I connect the tip of the RCA jack of the relay control to the center conductor of the SB-200's relay jack it keys the amplifier (without making the common shell connection and with no ALC connection). Both the TS-830S and the SB-200 are connected to a common ground using the same method as the TS-820S. I've checked the cable that I bought against the figure in the TS-830S manual and have checked it for continuity and shorts. All seems OK. The cable's DIN connector is connected in the "remote" socket, the one next to the fuse holder.
> >

> > Has anyone else had a similar problem? Any ideas on why I can interface the SB-200 with the TS-820S just fine but not the TS-830S? I'm still suspicious of the cable but wonder if it could be something else.
> > 73,
> >
> > Jon K5XRF
> >
>

21321. Re: TS-820S/SB-200 works but not TS-830S/SB-200

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-31 12:21:26 UTC
From: w5rkl
Topic: 21288 Message: 21321

Hello John,

Since you checked for continuity between the din plug and relay RL1
on the AF Unit, did you also check the relay itself when you had
relay RL1 out of the 830? It is possible relay contacts RL1-2 are
bad and if so will give you the indication you are seeing.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "k5xrf" <k5xrf@...> wrote:
>
> Mike,
>
> Thanks for the reply. I had a chance today to take off the TS-830S' covers today and trace the wires of the external connector. Each wire for the relay connects on the external DIN socket terminates to the relay socket correctly. I checked continuity without the relay in place and everything looks good. I didn't see any other wires connected on either the external DIN socket or the relay socket for the contacts used to control an amplifier.
>
> After I buttoned everything up and reconnected the cable I didn't see any continuity on the external DIN connector's relay contacts when keying the transmitter. I'm not sure what's going on. I'll have to take a closure look with the covers off tomorrow. Any ideas?
> 73,
>
> Jon K5XRF
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Hello Jon,
> >
> > I suspect you have the 830's remote connections wired wrong.
> >
> > The amplifier's relay should be wired between pins 1 or 4 and pin 5
> > on the 820's remote socket. Relay voltage to pin 5 and ground to
> > either pins 1 or 4. Pins 1 and 4 are ground.
> >
> > The amplifier's relay should be wired between pins 2 and 4 on the
> > 830's remote din socket.
> >
> > 73
> > Mike
> > W5RKL
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "k5xrf" <k5xrf@> wrote:

> > >
> > > Hi, I've been using my TS-820S to successfully drive my SB-200 amplifier for quite a while now. I'm having a problem though when I attempt to drive my SB-200 with my TS-830S. The problem that I'm having is that whenever I connect the tip of the RCA jack of the relay control to the center conductor of the SB-200's relay jack it keys the amplifier (without making the common shell connection and with no ALC connection). Both the TS-830S and the SB-200 are connected to a common ground using the same method as the TS-820S. I've checked the cable that I bought against the figure in the TS-830S manual and have checked it for continuity and shorts. All seems OK. The cable's DIN connector is connected in the "remote" socket, the one next to the fuse holder.
> > >
> > > Has anyone else had a similar problem? Any ideas on why I can interface the SB-200 with the TS-820S just fine but not the TS-830S? I'm still suspicious of the cable but wonder if it could be something else.
> > > 73,
> > >
> > > Jon K5XRF
> > >
> >
>

21322. Re: TS-820S/SB-200 works but not TS-830S/SB-200

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-31 17:46:47 UTC
From: k5xrf
Topic: 21288 Message: 21322

Hi Mike,

The relay being used by the remote DIN connector is the one located under the finals. My plan today is to check it for correct operation.
I will checks its in-circuit operation first and if it is not operating correctly (not closing on TX) I will remove it and attempt to power it from a bench supply.
73,

Jon K5XRF

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello John,
>
> Since you checked for continuity between the din plug and relay RL1
> on the AF Unit, did you also check the relay itself when you had
> relay RL1 out of the 830? It is possible relay contacts RL1-2 are
> bad and if so will give you the indication you are seeing.
>
> Mike W5RKL
>
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "k5xrf" <k5xrf@> wrote:
> >
> > Mike,
> >
> > Thanks for the reply. I had a chance today to take off the TS-830S' covers today and trace the wires of the external connector. Each wire for the relay connects on the external DIN socket terminates to the relay socket correctly. I checked continuity without the relay in place and everything looks good. I didn't see any other wires connected on either the external DIN socket or the relay socket for the contacts used to control an amplifier.
> >
> > After I buttoned everything up and reconnected the cable I didn't see any continuity on the external DIN connector's relay contacts when keying the transmitter. I'm not sure what's going on. I'll have to take a closure look with the covers off tomorrow. Any ideas?
> > 73,
> >
> > Jon K5XRF
> >

21323. Re: [TS-520_820_530_830] Scam Warning to User Group

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-31 20:24:47 UTC
From: bob4analog@yahoo.com
Topic: 21298 Message: 21323

I tend to agree, Gordon, and I really hope someone does contact him. I don't mean to belabor this topic, but I think I should mention just a couple more points regarding what happened so that all reading this will understand.

I gave this guy plenty of opportunity to follow up with me about the transaction. Before I sent him the rig, he was quite intent to contact me often as to when or if I'd sent it. Once the radio was sent, I'd made several attempts to reach him, still no reply. I made sure he got it by tracking the package online. It was signed for so I know he got it.

I warned him that if I didn't hear back from him, then I was going to warn the group about him. I think I gave him quite enuff time too.

No, I can't speak for him, but I can speak for myself. What he did was not right, and I don't wanna see anybody else get taken by these kind os con artists. They ARE out there.

"Sometimes ya gotta stand up for something, or you'll fall for anything."

Bob

They do say there are three sides to every story - yours, his and the truth ;-)

Someone suitably near that part of the world could easily lift the phone and ask this John Acuff what his take on it is, in the interest of fairness.

Gordon MM3YEQ

21324. Re: TS820S Poor Tx on LSB

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-31 20:40:01 UTC
From: Neil McGrath
Topic: 21316 Message: 21324

Thanks for the advice Mike. I managed to trace TC1 and TC2 on the CAR-1 unit and found that I could adjust them from the underside of the rig (did not even have to remove the covers). They are convieniently labeled USB and LSB. The Tx audio now sounds much better. Thanks for pointing me in the right direction.

Neil
G7AQK

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello Neil,
>
> My initial thought is the sideband balance adjustment needs attention
> and/or CAR1 and CAR2 in the PLL needs attention. These adjustments
> are all in the 820's service manual.
>
> 73
> Mike
> W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Neil McGrath" <g7aqk.uk@> wrote:
> >
> > I have had my TS820S for a while but have only recently put up an antenna for the lower bands. As I have tried to use LSB for the first time I have noticed that the TX audio sounds tinny compare to USB, when monitored via the headphone jack. There is also some distortion. Not surprisingly I have not had any successful contacts using LSB. USB works fine but does sound like it has slightly too much bass.
> >
> > Any suggestions on how to adjust the modulation?
> >
> > Neil
> > G7AQK
> >
>

21325. Re: TS-820S/SB-200 works but not TS-830S/SB-200

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-31 22:28:48 UTC
From: w5rkl
Topic: 21288 Message: 21325

Hello Jon,

You're right, the relay is on the final unit. My mistake.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "k5xrf" <k5xrf@...> wrote:
>
> Hi Mike,
>
> The relay being used by the remote DIN connector is the one located under the finals. My plan today is to check it for correct operation.
> I will checks its in-circuit operation first and if it is not operating correctly (not closing on TX) I will remove it and attempt to power it from a bench supply.
> 73,
>
> Jon K5XRF
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Hello John,
> >
> > Since you checked for continuity between the din plug and relay RL1
> > on the AF Unit, did you also check the relay itself when you had
> > relay RL1 out of the 830? It is possible relay contacts RL1-2 are
> > bad and if so will give you the indication you are seeing.
> >
> > Mike W5RKL
> >
> >
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "k5xrf" <k5xrf@> wrote:
> > >
> > > Mike,
> > >
> > > Thanks for the reply. I had a chance today to take off the TS-830S' covers today and trace the wires of the external connector. Each wire for the relay connects on the external DIN socket terminates to the relay socket correctly. I checked continuity without the relay in place and everything looks good. I didn't see any other wires connected on either the external DIN socket or the relay socket for the contacts used to control an amplifier.
> > >
> > > After I buttoned everything up and reconnected the cable I didn't see any continuity on the external DIN connector's relay contacts when keying the transmitter. I'm not sure

what's going on. I'll have to take a closure look with the covers off tomorrow. Any ideas?
> > > 73,
> > >
> > > Jon K5XRF
> > >
>

21326. Re: TS820S Poor Tx on LSB

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-05-31 22:29:53 UTC
From: w5rkl
Topic: 21316 Message: 21326

You're welcome Neil. Have fun.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Neil McGrath" <g7aqk.uk@...> wrote:
>
> Thanks for the advice Mike. I managed to trace TC1 and TC2 on the CAR-1 unit and found that I could adjust them from the underside of the rig (did not even have to remove the covers). They are convieniently labeled USB and LSB. The Tx audio now sounds much better. Thanks for pointing me in the right direction.
>
> Neil
> G7AQK
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Hello Neil,
> >
> > My initial thought is the sideband balance adjustment needs attention
> > and/or CAR1 and CAR2 in the PLL needs attention. These adjustments
> > are all in the 820's service manual.
> >
> > 73
> > Mike
> > W5RKL
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Neil McGrath" <g7aqk.uk@> wrote:
> > >
> > > I have had my TS820S for a while but have only recently put up an antenna for the lower bands. As I have tried to use LSB for the first time I have noticed that the TX audio sounds tinny compare to USB, when monitored via the headphone jack. There is also some distortion. Not surprisingly I have not had any successful contacts using LSB. USB works fine but does sound like it has slightly too much bass.
> > >
> > > Any suggestions on how to adjust the modulation?
> > >
> > > Neil
> > > G7AQK
> > >
> >
>

21327. Re: Capacitor Replacement on TS-530s C23 & C24

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-01 04:06:05 UTC
From: Peter
Topic: 21299 Message: 21327

Well maybe I should simplify my question by asking about the polarity of the caps. There is a red wire coming from the rectifier board that connects to a terminal on one of the caps. Does this connect to the + or - side? Then there is a blue jumper that goes between the two caps. What terminal does it connect to? Then there is a green wire that comes from the transformer and goes to the second cap. Does this attach to the + or - side of the second cap? From the pictures it appears that they may be wired in a series but I am not certain. Any help would be welcome. Thanks, Peter. KC2RBX

21328. Re: Capacitor Replacement on TS-530s C23 & C24

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-01 14:09:12 UTC
From: w5rkl
Topic: 21299 Message: 21328

Hello Peter,

The RED wire from the Rectifier board connects to the "Positive" (+) terminal of C24. The blue jumper wire connects from the "Negative" (-) terminal of C24 to the "Positive" (+) terminal of C22. The Green wire from the transformer can connect to either the "Positive" terminal of C22 OR the negative terminal of C24. Make sure the GREEN wire from the transformer actually originates from the transformer's "0" terminal on the 800 volt secondary. Last, a wire should connect from the "Negative" terminal of C22 to chassis ground.

Each capacitor should have a 470K 1/2 watt resistor and a .001ufd 500VDC disc capacitors connected between the "Positive" and "Negative" terminals of each capacitor. The resistors act as "equalizing" AND "bleeder" resistors. Do NOT forget to connect these components across each capacitor.

The RED wire should originate from the Rectifier board's "800" terminal and the GREEN wire should originate from the transformer 800 winding's "0" terminal.

If all this doesn't make sense, is difficult to understand, and reading the schematic is difficult to you, then may I recommend finding a local ham who understands this to help you. If you connect the capacitor's up incorrectly, wrong polarity, etc, you can easily cause permanent damage to the power transformer, the Rectifier board, and yourself. The voltages, both AC and DC, inside the 530 can kill so don't try it yourself if you are not sure of what you are doing. Find some help.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Peter" <pureenduro@...> wrote:
>
> Well maybe I should simplify my question by asking about the polarity of the caps. There is a red wire coming from the rectifier board that connects to a terminal on one of the caps. Does this connect to the + or - side? Then there is a blue jumper that goes between the two caps. What terminal does it connect to? Then there is a green wire that comes from the transformer and goes to the second cap. Does this attach to the + or - side of the second cap? From the pictures it appears that they may be wired in a series but I am not certain. Any help would be welcome. Thanks, Peter. KC2RBX
>

21329. Re: [TS-520_820_530_830] Re: Question regarding resonant receiving antennas

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-01 09:59:26 UTC
From: Mike Rodgers
Topic: 21301 Message: 21329

you should be hearing activity on 20,even with a non resonant antenna in daylight hours. sugest a fan dipole.if your going to buy one,they're not cheap and they're not perfect solutions.you could put up a seperate wire for 20..32.75 feet long(468 divided by frequency).
check the website hamuniverse.com i still think you should think about feeding your dipole with open wire feed if your tuner can accept it.you can read all about that in the arrl handbook as well.coax has a lot of loss at high swr and open wire has very little.when your trying to use a 80m wire on 20 there is very high swr between the tuner and antenna. there are articles at hamuniverse.com for building fan dipoles if you want to do that...mike

--- On Fri, 5/29/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: Question regarding resonant receiving antennas
To: TS-520_820_530_830@yahoogroups.com
Date: Friday, May 29, 2009, 4:59 PM

Dave's right. An 80 meter antenna will not perform very well on
20 meters, even with a tuner.

Dipoles are very good antennas for single band operation but not
for multi band operation.

A G5RV will perform quite well as an all band antenna with a tuner.
However, it must be erected properly in order to achieve good
performance. Lack of space, bending the ends down, and wrapping
the 450 ohm stub around a tree, all affect the G5RV's radiation
pattern and it's ability to perform properly. It is true the G5RV's
primary frequency is 20 meters. However, even on 20 meters, if it's
not erected properly, performance will be dramatically reduced.

For multi band operation, especially on 20 and above, a yagi
mounted on a tower or a sturdy pole, mounted at last one half wave
length above ground, is a good choice.

Having said that, one can spend thousands of dollars on antennas
yet be very disappointed in its performance all because the antenna
was not erected properly. In many cases it is not the fault of the
antenna but how the antenna, feed line, grounding, etc, was
installed.

I recommend you take some time and read up on the different types
of antennas. The ARRL Antenna Handbook and/or the ARRL Handbook, both
are usually available at your local library, are excellent sources

of information on antennas, feed lines, and support structures. Also
consider reading up on grounding and lightning protection, all of
which should not be neglected when erecting your antenna.

73
Mike
W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, "Dave ve3wej" <ve3wej@...> wrote:
>
> you already answered yourself on this one. your antenna is a 80 meter, no
> wonder it does not work great on 20, etc
>
> use a resonant antenna or a multiband antenna
>
>
>
> ----- Original Message -----
> From: "James Fogg" <james@...>
> To: <TS-520_820_530_ 830@yahoogroups. com>
> Sent: Friday, May 29, 2009 2:30 PM
> Subject: [TS-520_820_ 530_830] Question regarding resonant receiving antennas
>
>
> > I'm new to HF and I use an 80M inverted V antenna and a MFJ Versa Tuner 2
> > (948) connected to a TS-530S.
> >
> > I get good results on 80M and OK results on 40M. The higher I go the more
> > deaf my radio becomes. On 20M I hear stations fade in and fade out but
> > they don't stay around long (3 minutes maybe?). I have yet to hear
> > anything on 10M.
> >
> > My question is should I be looking at aligning my receiver or using a
> > resonant antenna?
> >
> > Also, in the current propagation climate I don't know what to expect from
> > the higher bands. I've heard people say the are having good luck on 20M.
> >
> >
> > --
> > James -
> >
> >
> >
> >
> >
> > ------------ --------- --------- ------
> >
> > Yahoo! Groups Links
> >
> >

> >
>

[Non-text portions of this message have been removed]

21330. FS or Trade: TS-830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-01 14:55:21 UTC
From: Joe McGerald
Topic: 21330 Message: 21330

I acquired an extra TS-830s over the weekend, and I don't need two of them. I have checked it out on CW during the DX contest and used it to check into a net last night on 75M. Its very clean and seems to work perfectly.

I'm open to selling it or taking something in trade or partial trade. If you are looking for a clean TS-830s please contact me via email.

Thanks and 73.
Joe
AF6NI

21331. Re: TS-820S/SB-200 works but not TS-830S/SB-200

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-01 17:58:37 UTC
From: k5xrf
Topic: 21288 Message: 21331

I finally did get things working yesterday. The relay coil was functioning properly (pulling closed on TX) but the contacts on the relay were dirty. I used a business card to clean up the contacts and I started seeing continuity between the two pins on the remote DIN connector during transmit. I connected the control cable (relay side only) and I'm able to use the SB-200 with my TS-830S. I haven't tried connecting the ALC side yet.

When inspecting the relay contacts I did notice that the contacts seemed slightly pitted which makes me think that I should look for a replacement. Anybody have a source for a replacement for this relay? It's an OMRON MX2P 12VDC. This relay is the T/R relay that is located under the finals and is covered by a metal enclosure.
73,

Jon K5XRF

--- In TS-520_820_530_830@yahoogroups.com, "k5xrf" <k5xrf@...> wrote:
>
> Hi Mike,
>
> The relay being used by the remote DIN connector is the one located under the finals. My plan today is to check it for correct operation.
> I will checks its in-circuit operation first and if it is not operating correctly (not closing on TX) I will remove it and attempt to power it from a bench supply.
> 73,
>
> Jon K5XRF
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Hello John,
> >
> > Since you checked for continuity between the din plug and relay RL1
> > on the AF Unit, did you also check the relay itself when you had
> > relay RL1 out of the 830? It is possible relay contacts RL1-2 are
> > bad and if so will give you the indication you are seeing.
> >
> > Mike W5RKL
> >
> >
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "k5xrf" <k5xrf@> wrote:
> > >
> > > Mike,
> > >

> > > Thanks for the reply. I had a chance today to take off the TS-830S' covers today and trace the wires of the external connector. Each wire for the relay connects on the external DIN socket terminates to the relay socket correctly. I checked continuity without the relay in place and everything looks good. I didn't see any other wires connected on either the external DIN socket or the relay socket for the contacts used to control an amplifier.
> > >
> > > After I buttoned everything up and reconnected the cable I didn't see any continuity on the external DIN connector's relay contacts when keying the transmitter. I'm not sure what's going on. I'll have to take a closure look with the covers off tomorrow. Any ideas?
> > > 73,
> > >
> > > Jon K5XRF
> > >
>

21332. Re: [TS-520_820_530_830] FS or Trade: TS-830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-01 18:28:40 UTC
From: probe
Topic: 21330 Message: 21332

Does this come with manual, original box, mic, etc or other items?
What is the condition of the bandswitch?
Any mods on this rig? Which filters are present?
Also serial number and asking price?

----- Original Message -----
From: Joe McGerald
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, June 01, 2009 7:55 AM
Subject: [TS-520_820_530_830] FS or Trade: TS-830s

I acquired an extra TS-830s over the weekend, and I don't need two of them. I have checked it out on CW during the DX contest and used it to check into a net last night on 75M. Its very clean and seems to work perfectly.

I'm open to selling it or taking something in trade or partial trade. If you are looking for a clean TS-830s please contact me via email.

Thanks and 73.
Joe
AF6NI

[Non-text portions of this message have been removed]

21333. Re: TS-820S/SB-200 works but not TS-830S/SB-200

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-01 19:04:32 UTC
From: w5rkl
Topic: 21288 Message: 21333

Congratulations Jon, glad to hear you got it working.

Check K4EAA's website, www.k4eaa.com as he may have the relay
you need.

As for relay pitting, this can happen over time when switching
voltage. In some cases when high voltage is switched through the
relay contacts. Every time there is a spark when the relay contacts
make and break connection, the spark creates carbon deposits on
the relay contacts. If this continues over a long period of time,
pitting and increased carbon build up occurs on the relay
contacts. If the voltage that is switched by the relay contacts is
high, such as in an unmodified SB-200 or SB-201 amplifier, then
pitting and carbon build up occurs rather quickly.

I don't recall whether your SB-200 has the soft key mod or not. If it
does not then the SB-200's full high relay voltage will be
applied across the 830's relay contacts. There are hams who key their
SB-200 and SB-201 using the 830 or other hybrid relay contacts
but, I don't recommend it.

IF your SB-200 does not have the soft key mod installed, I high
recommend installing it or using a ready built, or build one
yourself, amplifier keying interface.

The bottom line here, Jon, is it's up to you which route you take.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "k5xrf" <k5xrf@...> wrote:
>
> I finally did get things working yesterday. The relay coil was functioning properly (pulling closed on TX) but the contacts on the relay were dirty. I used a business card to clean up the contacts and I started seeing continuity between the two pins on the remote DIN connector during transmit. I connected the control cable (relay side only) and I'm able to use the SB-200 with my TS-830S. I haven't tried connecting the ALC side yet.
>
> When inspecting the relay contacts I did notice that the contacts seemed slightly pitted which makes me think that I should look for a replacement. Anybody have a source for a replacement for this relay? It's an OMRON MX2P 12VDC. This relay is the T/R relay that is located under the finals and is covered by a metal enclosure.
> 73,
>
> Jon K5XRF
>
> --- In TS-520_820_530_830@yahoogroups.com, "k5xrf" <k5xrf@> wrote:
> >

> > Hi Mike,
> >
> > The relay being used by the remote DIN connector is the one located under the finals. My plan today is to check it for correct operation.
> > I will checks its in-circuit operation first and if it is not operating correctly (not closing on TX) I will remove it and attempt to power it from a bench supply.
> > 73,
> >
> > Jon K5XRF
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > >
> > > Hello John,
> > >
> > > Since you checked for continuity between the din plug and relay RL1
> > > on the AF Unit, did you also check the relay itself when you had
> > > relay RL1 out of the 830? It is possible relay contacts RL1-2 are
> > > bad and if so will give you the indication you are seeing.
> > >
> > > Mike W5RKL
> > >
> > >
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "k5xrf" <k5xrf@> wrote:
> > > >
> > > > Mike,
> > > >
> > > > Thanks for the reply. I had a chance today to take off the TS-830S' covers today and trace the wires of the external connector. Each wire for the relay connects on the external DIN socket terminates to the relay socket correctly. I checked continuity without the relay in place and everything looks good. I didn't see any other wires connected on either the external DIN socket or the relay socket for the contacts used to control an amplifier.
> > > >
> > > > After I buttoned everything up and reconnected the cable I didn't see any continuity on the external DIN connector's relay contacts when keying the transmitter. I'm not sure what's going on. I'll have to take a closure look with the covers off tomorrow. Any ideas?
> > > > 73,
> > > >
> > > > Jon K5XRF
> > > >
> > >
> >

21334. Re: Capacitor Replacement on TS-530s C23 & C24

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-01 18:42:07 UTC
From: Peter
Topic: 21299 Message: 21334

Mike, That is exactly the information that I needed. I have the 470K 1/2 watt resistors and .001 ufd caps wired to the new caps already. Thank you very much. I promise to be safe :-)
73, Peter KC2RBX

21335. TS-830S RF Output suddenly gone

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-01 23:13:59 UTC
From: rdmegargle
Topic: 21335 Message: 21335

TS-830S. My power out is suddenly only a few watts and no ALC action from the driver. Carrier control has no effect. I performed the following measurements with a DVM (all units are VDC):
V1
Pin 1 stby 0; TX 0
Pin 2 stby -43.5; Tx 0.4
Pin 7 stby 338; Tx 329
Pin 8 stby 248; Tx 242

Finals
Pins 1, 4, 6 stby 0; Tx 1.36
Pin 3 stby 254/254; Tx 243/243
Pin 5 stby -100/-100; Tx-60/-60

Rectifier Unit
300B 336
210A 255
210B 257

On Tx, V1 Pin 1 cathode voltage of zero is a problem. Pin 7 and 8 seem off normal readings in Tx as well.

Any suggestions? Any other places to check? What could be causing the no cathode voltage on transmit at V1?

Russ

21336. Sold: FS or Trade: TS-830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-01 23:42:32 UTC
From: Joe McGerald
Topic: 21330 Message: 21336

This has been sold. Thanks Steve!

In TS-520_820_530_830@yahoogroups.com, "probe" <probeusr@...> wrote:
>
> Does this come with manual, original box, mic, etc or other items?
> What is the condition of the bandswitch?
> Any mods on this rig? Which filters are present?
> Also serial number and asking price?
>
>
> ----- Original Message -----
> From: Joe McGerald
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, June 01, 2009 7:55 AM
> Subject: [TS-520_820_530_830] FS or Trade: TS-830s
>
>
>
>
>
> I acquired an extra TS-830s over the weekend, and I don't need two of them. I have checked it out on CW during the DX contest and used it to check into a net last night on 75M. Its very clean and seems to work perfectly.
>
> I'm open to selling it or taking something in trade or partial trade. If you are looking for a clean TS-830s please contact me via email.
>
> Thanks and 73.
> Joe
> AF6NI
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

21337. Re: TS-830S RF Output suddenly gone

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-02 13:55:49 UTC
From: w5rkl
Topic: 21335 Message: 21337

Hello Russ,

The final tubes are wired in parallel which means the cathode voltage on V1 and V2 is the same. A change in the cathode voltage, zero as you have indicated, indicates a failure of one or more of these resistors. I recommend changing all 4 of these resistor with new 20 ohm 1/2 watt resistors. You can get new resistors at Mouser Electronics, www.mouser.com or your favorite online or parts store.

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "rdmegargle" <rdmegargle@...> wrote:
>
> TS-830S. My power out is suddenly only a few watts and no ALC action from the driver. Carrier control has no effect. I performed the following measurements with a DVM (all units are VDC):
> V1
> Pin 1 stby 0; TX 0
> Pin 2 stby -43.5; Tx 0.4
> Pin 7 stby 338; Tx 329
> Pin 8 stby 248; Tx 242
>
> Finals
> Pins 1, 4, 6 stby 0; Tx 1.36
> Pin 3 stby 254/254; Tx 243/243
> Pin 5 stby -100/-100; Tx-60/-60
>
> Rectifier Unit
> 300B 336
> 210A 255
> 210B 257
>
> On Tx, V1 Pin 1 cathode voltage of zero is a problem. Pin 7 and 8 seem off normal readings in Tx as well.
>
> Any suggestions? Any other places to check? What could be causing the no cathode voltage on transmit at V1?
>
> Russ
>

21338. Re: TS-830S RF Output suddenly gone

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-02 13:59:49 UTC
From: w5rkl
Topic: 21335 Message: 21338

Russ,

I forgot to mention which resistors. The resistors I was referring
to are the final tube cathode resistors, R2 thru R5, 20 ohm 1/2 watt
each.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello Russ,
>
> The final tubes are wired in parallel which means the cathode voltage
> on V1 and V2 is the same. A change in the cathode voltage, zero as
> you have indicated, indicates a failure of one or more of these
> resistors. I recommend changing all 4 of these resistor with new
> 20 ohm 1/2 watt resistors. You can get new resistors at Mouser
> Electronics, www.mouser.com or your favorite online or parts store.
>
>
> 73
> Mike W5RKL
>
>
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "rdmegargle" <rdmegargle@> wrote:
> >
> > TS-830S. My power out is suddenly only a few watts and no ALC action from the driver.
Carrier control has no effect. I performed the following measurements with a DVM (all units
are VDC):
> > V1
> > Pin 1 stby 0; TX 0
> > Pin 2 stby -43.5; Tx 0.4
> > Pin 7 stby 338; Tx 329
> > Pin 8 stby 248; Tx 242
> >
> > Finals
> > Pins 1, 4, 6 stby 0; Tx 1.36
> > Pin 3 stby 254/254; Tx 243/243
> > Pin 5 stby -100/-100; Tx-60/-60
> >
> > Rectifier Unit
> > 300B 336

> > 210A 255
> > 210B 257
> >
> > On Tx, V1 Pin 1 cathode voltage of zero is a problem. Pin 7 and 8 seem off normal readings in Tx as well.
> >
> > Any suggestions? Any other places to check? What could be causing the no cathode voltage on transmit at V1?
> >
> > Russ
> >
>

21339. TS-820 RF Proc.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-02 16:23:37 UTC
From: jsloss
Topic: 21339 Message: 21339

What is the correct frequency for the 455 KC oscillator. I recall a while back a comment that the frequency in the service manual was incorrect.

I've noticed a very slight audio distortion on the first few syllables of incoming speech. Signal strength of the received station does not seem to be a factor.

Your thoughts will be appreciated.

Joe k7mks

[Non-text portions of this message have been removed]

21340. Re: TS-830S RF Output suddenly gone

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-02 18:27:00 UTC
From: rdmegargle
Topic: 21335 Message: 21340

Mike, Thanks for the information. I'll get on that job this week and let you know the out come.

Russ K8AF

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Russ,
>
> I forgot to mention which resistors. The resistors I was referring
> to are the final tube cathode resistors, R2 thru R5, 20 ohm 1/2 watt
> each.
>
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Hello Russ,
> >
> > The final tubes are wired in parallel which means the cathode voltage
> > on V1 and V2 is the same. A change in the cathode voltage, zero as
> > you have indicated, indicates a failure of one or more of these
> > resistors. I recommend changing all 4 of these resistor with new
> > 20 ohm 1/2 watt resistors. You can get new resistors at Mouser
> > Electronics, www.mouser.com or your favorite online or parts store.
> >
> >
> > 73
> > Mike W5RKL
> >
> >
> >
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "rdmegargle" <rdmegargle@> wrote:
> > >
> > > TS-830S. My power out is suddenly only a few watts and no ALC action from the driver. Carrier control has no effect. I performed the following measurements with a DVM (all units are VDC):
> > > V1
> > > Pin 1 stby 0; TX 0
> > > Pin 2 stby -43.5; Tx 0.4
> > > Pin 7 stby 338; Tx 329

> > > Pin 8 stby 248; Tx 242
> > >
> > > Finals
> > > Pins 1, 4, 6 stby 0; Tx 1.36
> > > Pin 3 stby 254/254; Tx 243/243
> > > Pin 5 stby -100/-100; Tx-60/-60
> > >
> > > Rectifier Unit
> > > 300B 336
> > > 210A 255
> > > 210B 257
> > >
> > > On Tx, V1 Pin 1 cathode voltage of zero is a problem. Pin 7 and 8 seem off normal readings in Tx as well.
> > >
> > > Any suggestions? Any other places to check? What could be causing the no cathode voltage on transmit at V1?
> > >
> > > Russ
> > >
> >
>

21341. Re: TS-830S RF Output suddenly gone

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-02 20:58:03 UTC
From: w5rkl
Topic: 21335 Message: 21341

My mistake Russ, I confused your question with the final tubes.

Anyway, as I mentioned in my e-mail response, since most of the voltages on the driver tube are close to what they normally should be but the cathode voltage is 0 in both transmit and receive, then I suspect a bad driver tube. I didn't mention this in my e-mail response, but check L38, R35, and R41 in the driver tube's cathode circuit. If L38 is open then there will be no cathode voltage resulting in no voltage on the cathode of the driver tube in standby and transmit.

ALC is produced by grid current flowing in the final tubes, not the driver. When the grids of the final tubes become positive, based on the level of RF signal from the driver tube, current flows between the both final tube's cathode and grid. The positive voltage created by the grid current flowing in the final tubes is sensed by the ALC circuit on the AF Unit and the ALC circuit produces the ALC voltage that is fed back to the IF Unit to control the gain of Q29.

I still recommend checking the final tube's cathode resistors, R2 thru R5 and if they have changed values, possibly due to age etc, replace all 4 of them with new 20 ohm 1/2 watt resistors.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "rdmegargle" <rdmegargle@...> wrote:
>
> Mike, Thanks for the information. I'll get on that job this week and let you know the out come.
>
> Russ K8AF
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Russ,
> >
> > I forgot to mention which resistors. The resistors I was referring
> > to are the final tube cathode resistors, R2 thru R5, 20 ohm 1/2 watt
> > each.
> >
> > Mike W5RKL
> >
> >

> > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > >
> > > Hello Russ,
> > >
> > > The final tubes are wired in parallel which means the cathode voltage
> > > on V1 and V2 is the same. A change in the cathode voltage, zero as
> > > you have indicated, indicates a failure of one or more of these
> > > resistors. I recommend changing all 4 of these resistor with new
> > > 20 ohm 1/2 watt resistors. You can get new resistors at Mouser
> > > Electronics, www.mouser.com or your favorite online or parts store.
> > >
> > >
> > > 73
> > > Mike W5RKL
> > >
> > >
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> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "rdmegargle" <rdmegargle@> wrote:
> > > >
> > > > TS-830S. My power out is suddenly only a few watts and no ALC action from the driver. Carrier control has no effect. I performed the following measurements with a DVM (all units are VDC):
> > > > V1
> > > > Pin 1 stby 0; TX 0
> > > > Pin 2 stby -43.5; Tx 0.4
> > > > Pin 7 stby 338; Tx 329
> > > > Pin 8 stby 248; Tx 242
> > > >
> > > > Finals
> > > > Pins 1, 4, 6 stby 0; Tx 1.36
> > > > Pin 3 stby 254/254; Tx 243/243
> > > > Pin 5 stby -100/-100; Tx-60/-60
> > > >
> > > > Rectifier Unit
> > > > 300B 336
> > > > 210A 255
> > > > 210B 257
> > > >
> > > > On Tx, V1 Pin 1 cathode voltage of zero is a problem. Pin 7 and 8 seem off normal readings in Tx as well.
> > > >
> > > > Any suggestions? Any other places to check? What could be causing the no cathode voltage on transmit at V1?
> > > >
> > > > Russ
> > > >
> > >

> >
>

21342. Re: [TS-520_820_530_830] TS-820 - Erratic VFO on 80 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-03 03:40:32 UTC
From: Corky Kirk
Topic: 21290 Message: 21342

060209

Jim,
Try cleaning/lubricating the ends of the main tuning condenser. I've used
CAIG De-Ox on those I've found and it has seemed to do the trick.
73,
Corky W6ORS
Hilo HI

--- On Thu, 5/28/09, Jim <n4ce_patterson@...> wrote:

> From: Jim <n4ce_patterson@...>
> Subject: [TS-520_820_530_830] TS-820 - Erratic VFO on 80 meters
> To: TS-520_820_530_830@yahoogroups.com
> Date: Thursday, May 28, 2009, 8:20 AM
>
>
>

> slight touch will send it to 4.000 or sometimes the digital
> display will completely blank out as does the receive audio.
> This does not appear to be just a quirky digital display
> because the receive frequency does change in step with the
> actual readout. I can ever so gently keep playing with the
> vfo knob and eventually I can to the frequency I want.
>
>
>
> 80meters is the only band that this happens. Everything
> else on this transceiver seems to be working very well. Any
> ideas on what might be making it do this on this band only?
>
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>
> I was also considering buying the TS-820's matching
> External VFO but wanted to first see if anyone had any
> thoughts on what it might be.
>
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>
> I don't think it is something as easy as a dirty
> bandswitch.. . I've jiggled it when I was up around
> 3.920 and it didn't seem to have any affect.
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> Thanks
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> Jim
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21343. FS: Kenwood KB 1 Deluxe Tuning Knob

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-04 05:56:09 UTC
From: dr7zyq
Topic: 21343 Message: 21343

I am selling my like new KB-1 deluxe tuning knob for the TS-830S transceiver. I believe it will work fine with other rigs of that vintage but only present it for the TS-830S because that is the rig it was sold for.

I am the original owner and only installed it to see what it looked like, then removed it, put it away and forgot about it. Hence, it is like new, in the original little box with the original instruction sheet and allen wrench for removing and installing the tuning knobs.

$100.00 including shipping within ConUS. Payment by USPS postal money order only.

Thanks,

David, WA7ZYQ
north Idaho

21344. Re: [TS-520_820_530_830] TS-820 RF Proc.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-04 12:13:10 UTC
From: dennis hatch
Topic: 21339 Message: 21344

There is no "correct" frequency. The best way to align the processor is to monitor the processor output with a scope and adjust the oscillator frequency for a peak audio output with least distortion with proper input level. The crystal filter passband characteristics vary from filter to filter, and AGE. Once you adjust the frequency for best performance, make a lablel and put the measured frequency on the xtal filter for future alignment reference.

--- On Tue, 6/2/09, jsloss <k7mks@...> wrote:

From: jsloss <k7mks@...>
Subject: [TS-520_820_530_830] TS-820 RF Proc.
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, June 2, 2009, 11:23 AM

What is the correct frequency for the 455 KC oscillator. I recall a while back a comment that the frequency in the service manual was incorrect.

I've noticed a very slight audio distortion on the first few syllables of incoming speech. Signal strength of the received station does not seem to be a factor.

Your thoughts will be appreciated.

Joe k7mks

[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

21345. Re: [TS-520_820_530_830] TS-820 RF Proc.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-04 14:44:23 UTC
From: jsloss
Topic: 21339 Message: 21345

Thank you Dennis

Joe k7mks-

[Non-text portions of this message have been removed]

21346. just hearing static

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-04 16:54:11 UTC
From: Angelica
Topic: 21346 Message: 21346

I replaced my radio's desk with a different one early last week. Everything seemed fine. I tested the radio after it was put back together and it worked fine. However, when I tried to get on a couple days later I could barely bring in 20meter. When I moved to 75 meter (where I normally have it), I could only hear static. Tried back on 20m and same, even when I tried to listen to some CW. I thought maybe the driver. Replaced and that wasn't it (was told it wouldn't have been the driver anyways). My paperclip jumper is still on the back. The cables are still firmly in place. I dont' think it was hit by lightening (I figure I would know if it was then again maybe not). A friend is going to take a look at it tomorrow but I thought I would see if there are any ideas today? It sounds about the same as when I first got it. I will be spraying some more cleaner inside that's safe for it (forgot what it's called ; got it from Radio Shack;
have it at home) to see if that helps.

I miss the contacts...
73 KD8HMS Angie

[Non-text portions of this message have been removed]

21347. Re: [TS-520_820_530_830] TS-820 - Erratic VFO on 80 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-04 16:54:33 UTC
From: martin
Topic: 21290 Message: 21347

Hi Guys. When using DeOxit inside the VFO, be very careful to use
only a very tiny amount, and make sure none gets on the circuit board!

TTYL

Corky Kirk wrote:
>
> 060209
>
> Jim,
> Try cleaning/lubricating the ends of the main tuning condenser. I've used
> CAIG De-Ox on those I've found and it has seemed to do the trick.
> 73,
> Corky W6ORS
> Hilo HI
>
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>
> --- On Thu, 5/28/09, Jim <n4ce_patterson@...> wrote:
>
>> From: Jim <n4ce_patterson@...>
>> Subject: [TS-520_820_530_830] TS-820 - Erratic VFO on 80 meters
>> To: TS-520_820_530_830@yahoogroups.com
>> Date: Thursday, May 28, 2009, 8:20 AM
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>> I've come across an odd situation with my
>> TS-820. What I'm about to describe only happens on 80
>> meters and only when the VFO frequency exceeds 3.899mhz.
>>
>>
>>
>> If I go to this band from any other band and tune-up the
>> band to say 3.920mhz, the vfo becomes erratic. Only a
>> slight touch will send it to 4.000 or sometimes the digital
>> display will completely blank out as does the receive audio.
>> This does not appear to be just a quirky digital display
>> because the receive frequency does change in step with the
>> actual readout. I can ever so gently keep playing with the
>> vfo knob and eventually I can to the frequency I want.
>>
>>
>>
>> 80meters is the only band that this happens. Everything
>> else on this transceiver seems to be working very well. Any
>> ideas on what might be making it do this on this band only?
>>
>>
>>
>> I was also considering buying the TS-820's matching
>> External VFO but wanted to first see if anyone had any
>> thoughts on what it might be.
>>
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>>
>> I don't think it is something as easy as a dirty
>> bandswitch.. . I've jiggled it when I was up around
>> 3.920 and it didn't seem to have any affect.
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>> Thanks
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>> Jim
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CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

21348. Re: [TS-520_820_530_830] just hearing static

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-04 16:59:20 UTC
From: Ken Winterling
Topic: 21346 Message: 21348

Angie,

Can it hear the calibrator signal?

Ken, WA2LBI

On Thu, Jun 4, 2009 at 12:54, Angelica <arkch1p@...> wrote:

> I replaced my radio's desk with a different one early last week.
> Everything seemed fine. I tested the radio after it was put back together
> and it worked fine. However, when I tried to get on a couple days later I
> could barely bring in 20meter. When I moved to 75 meter (where I normally
> have it), I could only hear static. Tried back on 20m and same, even when I
> tried to listen to some CW. I thought maybe the driver. Replaced and that
> wasn't it (was told it wouldn't have been the driver anyways). My paperclip
> jumper is still on the back. The cables are still firmly in place. I dont'
> think it was hit by lightening (I figure I would know if it was then again
> maybe not). A friend is going to take a look at it tomorrow but I thought I
> would see if there are any ideas today? It sounds about the same as when I
> first got it. I will be spraying some more cleaner inside that's safe for
> it (forgot what it's called ; got it from Radio Shack;
> have it at home) to see if that helps.
>
> I miss the contacts...
> 73 KD8HMS Angie
>
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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21349. problem with meter deflection when turned on

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-04 15:02:21 UTC
From: kb6ltych
Topic: 21349 Message: 21349

hello to all,
sorry if this was addressed in previous discussion, I tried to search for but could not find.
our 520 has been working just fine, when yesterday it was turned on the meter instantly went to max deflection. after some dialing around it went back to normal, but it has done it again today.
is this a ground problem?

Thanks
Christy KB6LTY

21350. Re: problem with meter deflection when turned on

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-04 17:18:37 UTC
From: w5rkl
Topic: 21349 Message: 21350

Hello Christy,

Have you tried cleaning the RF gain control with contact cleaner then rotating the RF gain control throughout its travel a few times?

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "kb6ltych" <kb6ltych@...> wrote:
>
> hello to all,
> sorry if this was addressed in previous discussion, I tried to search for but could not find.
> our 520 has been working just fine, when yesterday it was turned on the meter instantly went to max deflection. after some dialing around it went back to normal, but it has done it again today.
> is this a ground problem?
>
> Thanks
> Christy KB6LTY
>

21351. Re: just hearing static

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-04 17:26:32 UTC
From: w5rkl
Topic: 21346 Message: 21351

Hello Angie,

First, neither the driver tube or the final tubes have anything to do with the receiver.Changing them will not fix the problem.

I suspect dirty relay contacts. I recommend pulling the relay and cleaning the contacts with contact cleaner and a thin piece of paper.

While you are at it, I also recommend cleaning the wafer switches with contact cleaner as well. Do not over do it with contact cleaner. A little goes a long way. Use canned air, after cleaning the relay and wafer switches, to remove excess contact cleaner then wait 3 to 5 minutes before powering up the radio.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Ken Winterling <wa2lbi@...> wrote:
>
> Angie,
>
> Can it hear the calibrator signal?
>
> Ken, WA2LBI
>
>
> On Thu, Jun 4, 2009 at 12:54, Angelica <arkch1p@...> wrote:
>
> > I replaced my radio's desk with a different one early last week.
> > Everything seemed fine. I tested the radio after it was put back together
> > and it worked fine. However, when I tried to get on a couple days later I
> > could barely bring in 20meter. When I moved to 75 meter (where I normally
> > have it), I could only hear static. Tried back on 20m and same, even when I
> > tried to listen to some CW. I thought maybe the driver. Replaced and that
> > wasn't it (was told it wouldn't have been the driver anyways). My paperclip
> > jumper is still on the back. The cables are still firmly in place. I dont'
> > think it was hit by lightening (I figure I would know if it was then again
> > maybe not). A friend is going to take a look at it tomorrow but I thought I
> > would see if there are any ideas today? It sounds about the same as when I
> > first got it. I will be spraying some more cleaner inside that's safe for
> > it (forgot what it's called ; got it from Radio Shack;
> > have it at home) to see if that helps.
> >
> > I miss the contacts...
> > 73 KD8HMS Angie
> >
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> > [Non-text portions of this message have been removed]
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> > Yahoo! Groups Links
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> [Non-text portions of this message have been removed]
>

21352. 820S IF Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-04 23:05:03 UTC
From: jsloss
Topic: 21352 Message: 21352

Problem board has very weak calibrator receive and no ALC, Ip, or PO (w/ CAR control full CW) but everything works just fine on USB/LSB.

Problem confirmed in IF board by swapping w/ known good board.

Would appreciate hints as to where to start looking from those who have been there and done that.

Joe k7mks

[Non-text portions of this message have been removed]

21353. Re: TS-820S Run away Idle Current

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-04 23:52:15 UTC
From: Gordon
Topic: 21270 Message: 21353

Mike and gang,
I was able to get the 820S back on the bench today. I found the problem. VR1 on the Carrier board was way out of adjustment. I adjusted it so the USB and LSB carriers are equal. Now the carrier suppression adjusts perfectly. Both USB and LSB are now equal to a mv.
Just need to pick up a good pair of 6146B's and I'll have this radio ready to sell.
Thanks for all the tips Mike.
73 to all.
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, n6wk@... wrote:
>
> Thanks Mike,
> All has gone well until I get to the carrier Suppression adjustment.
> The first part goes well.
> I adjust for maximum output on 14.175, then switch to USB and adjust VR5
> and TC2 for Minimum on my scope. No Problem there,
> but when I switch to LSB, the reading on the scope is Way high and
> nothing I do can get the two (USB & LSB) to be the same.
> I did the Neutralization and that was easy. Just can't get the Carrier
> Suppression to show the same on the scope. On the 830's i work on, I can
> always get the USB and LSB to be exactly the same on the scope.
> The Idle current is equal now on LSB or USB however.
>
> 73,
> Gordon
>
>
>
> w5rkl wrote:
> >
> >
> > That's great Gordon! I knew you would find the problem.
> >
> > Anyway, congratulations Gordon and you are right, aligning the
> > sideband balance will fix the difference in the idling current.
> >
> > I still have a slight PLL problem with my 820, USB sounds different
> > than LSB, not the same receive "tone" in receive. That's more than
> > likely the sideband balance which I have not gotten around to. One
> > of these days I'll put it on the bench.
> >
> > By the way, I would recommend checking the AF AVR Unit's 9VDC on
> > AF1 pin 1 (adjust VR4) and 3.3VDC on AF2 pin 6 (adjust VR1).
> > If your 820 drifts a bit more than it should, replace Q7, 2SA496Y

> > and D5, 6.1V zener on the AF AVR Unit then readjust the 9VDC then
> > the 3.3VDC and you should see a significantly improvement in the
> > drift. I did that to my 820 and the drift is back to factory specs.
> >
> > Anyway, congratulations Gordon.
> >
> > 73
> > Mike
> > W5RKL
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, n6wk@ wrote:
> > >
> > > Hi Mike, Gordon and Lou,
> > > Well, looks like I had TWO problems.
> > > I swapped out the finals with another used set and then started
> > > tightening all ground screws and removing, spraying with De-oxit, all
> > > the connectors. What I ended up finding is/was a broken wire coming off
> > > the RF board that goes to FG on the finals board. When that terminal
> > > lost contact, the Finals went WILD !
> > > Once I replaced the little spring connector inside the plastic
> > > connector, I now no longer have run away Idle current.
> > > There is a different idle current from USB to LSB by about 10ma but it
> > > is stable and I know I can get that part equal by doing the carrier
> > > balance adjustments. I have run into that before. Once the null is set,
> > > they will be equal again.
> > > Thanks for the help. Now to go back and start the Alignment over.
> > >
> > > 73,
> > > Gordon
> > >
> > >
> > >
> > > w5rkl wrote:
> > > >
> > > >
> > > > Morning Gordon,
> > > >
> > > > Removing the driver tube did not produce the results in the Final
> > > > Unit that I expected.
> > > >
> > > > Removing the driver tube essentially blocks the flow of any RF
> > > > signal from the IF Unit to the final amplifier which should have
> > > > resulted in a stable 60ma idling current in the final tubes. The
> > > > initial rise to 80ma then settling back to 60ma in the final
> > > > tubes is not normal.
> > > >
> > > > Lou has a good point, check the final neutralization.
> > > >
> > > > At this point I do not believe the balance modulator or any of the

> > > > 4 diodes, D26 thru D29, are the source of the problem.
> > > >
> > > > A check of the power supplies, using a scope, for the presence of
> > > > AC ripple should also be done.
> > > >
> > > > I also would not rule out bad grounds whether through a mounting
> > > > screw on the PC boards or any of the many plug/pin connection.
> > > >
> > > > Mike W5RKL
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>
> > > > <mailto:TS-520_820_530_830%40yahoogroups.com>, n6wk@ wrote:
> > > > >
> > > > > Hi Mike,
> > > > > Removing the Driver does help, but it still acts strange.
> > > > > When the driver tube is out and I check the idle IP, It at first
> > > > > may read 70 to 80 but then slowly goes back down to 60. If I wait a
> > > > > minute, do it again and it does the same thing. However, it no
> > longer
> > > > > runs away and blows the fuse with the driver out.
> > > > > I turned the Mic gain all the way down and the compressor all
> > the way
> > > > > down, even though it is OFF. There is NO Mic connected.
> > > > > Next step is to check the 4 diodes I guess.
> > > > > My Frequency Counter shows NO reading on the TIF terminal.
> > > > >
> > > > > 73,
> > > > > Gordon
> > > > >
> > > > >
> > > > >
> > > > >
> > > > > w5rkl wrote:
> > > > > >
> > > > > >
> > > > > > Afternoon Gordon,
> > > > > >
> > > > > > Removing ONLY the driver tube should cause the final IP idling
> > > > > > current to be normal, 60ma. If this is true then you can eliminate
> > > > > > the final amplifier as the source of the problem.
> > > > > >
> > > > > > Have you connected a scope and/or frequency counter to the IF Unit
> > > > > > IF-3 plug pin 2 connection (TIF)? If the TIF connection produces a
> > > > > > frequency of 8.8Mhz then the balance modulator is not balanced
> > > > > > allowing the carrier generator signal to mix with the VFO
> > producing
> > > > > > the 8.8Mhz IF signal at the TIF connection even with no audio
> > output
> > > > > > from the speech amplifier.

> > > > > >
> > > > > > Turn the MIC gain to minimum, remove any microphone from the front
> > > > > > panel MIC socket, adjust the carrier null for minimum RF. If the
> > > > > > problem is still there, then my initial thoughts are as follows:
> > > > > >
> > > > > > 1. Noise is being generated from the speech amplifier even with
> > > > > > minimum MIC gain setting.
> > > > > >
> > > > > > or
> > > > > >
> > > > > > 2. One or more diodes, D26, D27, D28, and/or D29 in the balance
> > > > > > modulator on the IF Unit have failed.
> > > > > >
> > > > > > Just a couple of thoughts.
> > > > > >
> > > > > > Mike W5RKL
> > > > > >
> > > > > > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>
> > > > <mailto:TS-520_820_530_830%40yahoogroups.com>
> > > > > > <mailto:TS-520_820_530_830%40yahoogroups.com>, "Gordon"
> > <n6wk@> wrote:
> > > > > > >
> > > > > > > I have an 820S here on the bench that is driving me nuts.
> > The Idle
> > > > > > > plate current runs away(goes off scale) in USB but will go as
> > low as
> > > > > > > 80ma in LSB. I am convinced it has something to do with the
> > Carrier
> > > > > > > balance adjustment on the IF board, but I am at an end. Any
> > > > > > > suggestions out there?
> > > > > > > > I have tried new tubes and still the same thing. If I don't
> > turn it
> > > > > > > off it will blow the fuse after a few minutes unless I leave
> > the SG
> > > > > > > switch off. Then it does not blow the fuse.
> > > > > > > >
> > > > > > > > Thanks,
> > > > > > > > Gordon
> > > > > > > >
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21354. 820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-05 00:49:50 UTC
From: jsloss
Topic: 7431 Message: 21354

Correction to my last:

Weak (S 0 or less) calibrator signal w/ mode switch in TUNE or CW and SEND/RCVE on receive. USB/LSB reception just fine.

Whatever is happening the rig works fine in USB/LSB but not in TUNE or CW modes. Problem is in IF board.

Joe k7mks

[Non-text portions of this message have been removed]

21355. Re: just hearing static

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-05 01:11:30 UTC
From: james27613
Topic: 21346 Message: 21355

Hi Angie,

Please remove and install the jumper paperclip,
sometimes that connection gets dirty and no receive,
just static.

You may want to check the plastic shaft couplers,
they may need to be replaced.

use a business card, trim it with scissors,
a drop or two of DeOxit to clean the relay contacts.
they are very delicate, go slow and you'll do fine.

Let us know what you find.

73 james ke4drn

21356. Re: Just hearing static

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-05 13:14:39 UTC
From: Angelica
Topic: 21356 Message: 21356

Ken,
I did move off VFO to 25KHZ, and same static. It doesn't bring in, what I call, the "test" signal.

3b. Re: just hearing static
    Posted by: "Ken Winterling" wa2lbi@... wa2lbi
    Date: Thu Jun 4, 2009 10:00 am ((PDT))

Angie,

Can it hear the calibrator signal?

Ken, WA2LBI

[Non-text portions of this message have been removed]

21357. Re: Just hearing static

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-05 13:20:19 UTC
From: Angelica
Topic: 21356 Message: 21357

Mike,

I know the drivers weren't the culprit (I didn't think they were but I wanted to try anyways and a friend also confirmed they wouldn't do anything). :)
I also thought of the cleaner (which I mentioned in the previous email). I used the Deoxit cleaner just over a year ago to clean the wafers and such. I definitely agree a little goes a long way. I just wish it would have gone longer. :) I just didn't get a chance to use DeOxit this morning but I brought it with me to give to my friend along with the radio.

I also checked the antenna outside and it is still up so that was a relief.

I appreciate everyone's help and glad I thought of the same things others have.

Hope everyone's having a good week.

73 KD8HMS Angie

3c. Re: just hearing static
    Posted by: "w5rkl" w5rkl@yahoo.com w5rkl
    Date: Thu Jun 4, 2009 10:27 am ((PDT))

Hello Angie,

First, neither the driver tube or the final tubes have anything to do with the receiver.Changing them will not fix the problem.

I suspect dirty relay contacts. I recommend pulling the relay and cleaning the contacts with contact cleaner and a thin piece of paper.

While you are at it, I also recommend cleaning the wafer switches with contact cleaner as well. Do not over do it with contact cleaner. A little goes a long way. Use canned air, after cleaning the relay and wafer switches, to remove excess contact cleaner then wait 3 to 5 minutes before powering up the radio.

Mike W5RKL

[Non-text portions of this message have been removed]

21358. Re: [TS-520_820_530_830] Re: problem with meter deflection when turned on

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-05 19:59:09 UTC
From: Christy Hunter
Topic: 21349 Message: 21358

Mike,
will give it a try.
thanks
Christy KB6LTY

--- On Thu, 6/4/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: problem with meter deflection when turned on
To: TS-520_820_530_830@yahoogroups.com
Date: Thursday, June 4, 2009, 5:18 PM

Hello Christy,

Have you tried cleaning the RF gain control with contact cleaner then rotating the RF gain control throughout its travel a few times?

Mike W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, "kb6ltych" <kb6ltych@.. .> wrote:
>
> hello to all,
> sorry if this was addressed in previous discussion, I tried to search for but could not find.
> our 520 has been working just fine, when yesterday it was turned on the meter instantly went to max deflection. after some dialing around it went back to normal, but it has done it again today.
> is this a ground problem?
>
> Thanks
> Christy KB6LTY
>

[Non-text portions of this message have been removed]

21359. FS: HV caps, bypass and bleeders NEW

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-05 21:29:40 UTC
From: james27613
Topic: 21359 Message: 21359

Hi,

Please contact me off list if you would like a pair.

ONE PAIR each:

NEW Panasonic 150uf 500WVDC electrolytic caps *
NEW bypass caps and
NEW 1W bleeder resistors.

* 35mm in diameter, fits existing clamps perfectly.
USA Made in TN by Panasonic.

Paypal, Postal or Walmart money orders just fine with me.

$ 25.00 shipped Priority US Mail with tracking !

Need more then one pair ?
$ 20.00 for additional pairs shipped to same address.

73 james ke4drn

21360. TS-820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-06 17:35:34 UTC
From: WN9D
Topic: 2059 Message: 21360

Hello all,

Does anyone know of a mod to add an FSK monitor to the TS-820?

Thanks + '73,
Randy WN9D

[Non-text portions of this message have been removed]

21361. Perplexing TS-820S Problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-06 19:44:16 UTC
From: Steve
Topic: 21361 Message: 21361

Hello,

I have a perplexing TS-820S problem I would like to share in hopes that someone might have an idea as to what may be causing it. On 160 thru 15 meters, the frequency display is solid after warm up. However on ten meters, the frequency display jumps all over the place. Below are some examples:

Band Switch = 28
Mode Switch = LSB, USB, or CW
Set frequency via vfo to 28.350.0
Frequency display fluctuates between 28.349.8 and 28.350.4

Band Switch = 28.5
Mode Switch = LSB, USB, or CW
Set frequency via vfo to 28.850.0
Frequency display fluctuates between 28.849.0 and 28.851.0

Band Switch = 29.0
Mode Switch = LSB, USB, or CW
Here it is really wild, tuning the VFO has little effect and the frequency is jumping all over, from 28.990.0 to 29.100.0.

On power up, sometimes with the band switch in the 29.0 position, the display reads in the 24.xxx.x range, then after about 5 minutes goes to the correct frequency.

Band Switch = 29.5
Mode Switch = LSB, USB, or CW
Set frequency via vfo to 29.850
Frequency display fluctuates between 29.849.8 and 29.850.7

The radio was like this when I received it, and the previous owner says he never operated on 10 meters so was unaware of the problem.

My troubleshooting and repair skills are at a beginner level with some experience (replacing filter capacitors, finding and replacing burnt components, etc).

Any thoughts on how to solve this problem would be appreciated. This is really a nice looking TS-820S and I would love to get it working right!

Thanks,

Steve K7QHU

21362. RE: [TS-520_820_530_830] Perplexing TS-820S Problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-06 20:15:39 UTC
From: Tate Antrim
Topic: 21361 Message: 21362

You've probably got some dirty contacts connected with the 10m switch positions (my 830s is solid from the instant you turn it on - so dirty contacts would be my first starting point)

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Steve
Sent: Saturday, June 06, 2009 3:44 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Perplexing TS-820S Problem

Hello,

I have a perplexing TS-820S problem I would like to share in hopes that someone might have an idea as to what may be causing it. On 160 thru 15 meters, the frequency display is solid after warm up. However on ten meters, the frequency display jumps all over the place. Below are some examples:

Band Switch = 28
Mode Switch = LSB, USB, or CW
Set frequency via vfo to 28.350.0
Frequency display fluctuates between 28.349.8 and 28.350.4

Band Switch = 28.5
Mode Switch = LSB, USB, or CW
Set frequency via vfo to 28.850.0
Frequency display fluctuates between 28.849.0 and 28.851.0

Band Switch = 29.0
Mode Switch = LSB, USB, or CW
Here it is really wild, tuning the VFO has little effect and the frequency is jumping all over, from 28.990.0 to 29.100.0.

On power up, sometimes with the band switch in the 29.0 position, the display reads in the 24.xxx.x range, then after about 5 minutes goes to the correct frequency.

Band Switch = 29.5
Mode Switch = LSB, USB, or CW
Set frequency via vfo to 29.850
Frequency display fluctuates between 29.849.8 and 29.850.7

The radio was like this when I received it, and the previous owner says he never operated on 10 meters so was unaware of the problem.

My troubleshooting and repair skills are at a beginner level with some experience (replacing filter capacitors, finding and replacing burnt components, etc).

Any thoughts on how to solve this problem would be appreciated. This is really a nice looking TS-820S and I would love to get it working right!

Thanks,

Steve K7QHU

[Non-text portions of this message have been removed]

21363. TS-830S without 12BY7; could be a problem?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-07 17:19:38 UTC
From: anet78a
Topic: 21363 Message: 21363

Hello, I have received a Kenwood TS-830S with some form of cannibalism ... without 12BY7 driver tube and with 2x S2001A final tubes.

In RX it's OK, removed some 'home made mods / bridge' (this radio was used with some datong audio processing or similar...) and now it sound good...

I have TX with this radio without his driver tube (I didn't know); could be a problem? S2001A are 6146B compatible?

I have 'ebayed' and waiting for a 12BY7 and 2x 6146B tubes; what can I test / measure before to replace these tubes?

The RF unit and the Final unit seem to be original...

21364. Re: [TS-520_820_530_830] TS-830S without 12BY7; could be a problem?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-07 18:06:20 UTC
From: Gordon JC Pearce
Topic: 21363 Message: 21364

On Sun, 2009-06-07 at 17:19 +0000, anet78a wrote:
> Hello, I have received a Kenwood TS-830S with some form of cannibalism ... without 12BY7 driver tube and with 2x S2001A final tubes.
>
> In RX it's OK, removed some 'home made mods / bridge' (this radio was used with some datong audio processing or similar...) and now it sound good...
>
> I have TX with this radio without his driver tube (I didn't know); could be a problem?
> S2001A are 6146B compatible?

Well, the question is - how much RF, and on what frequency?

With the lid off and the PA valves out, I could pick up my TS-520 for a good 30 feet or so.

It's also possible that the PA is oscillating at some weird frequency, and that is causing the RF deflection on the meter (if you get any).

Take nothing for granted, and follow the neutralising instructions carefully when you get your new valves.

Gordon

21365. Missing tubes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-08 00:10:33 UTC
From: Rich Jones
Topic: 21365 Message: 21365

Dr OM Gordon. Missing tubes? Could be a problem? You must have all tubes in place and in working order to transmit. Best gud luck,Rich K8UV

[Non-text portions of this message have been removed]

21366. Re: Perplexing TS-820S Problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-08 18:34:03 UTC
From: w5rkl
Topic: 21361 Message: 21366

My first suggestion is to check the AF AVR UNIT board's 3.3VDC and 9VDC. Over time along with aging components, these 2 volts can easily change, increase or decrease.

The AF AVR UNIT board is located on the bottom of the 820, directly below the VFO. There are "3" plugs, 2 six pin plugs on the front of the board and one 11 pin plug on the rear of the board.

Remove the top and bottom cabinet housing then turn the 820 upside down with the front panel facing you. The AF AVR UNIT board is directly behind the front panel and directly below the VFO.

The 3 plugs are as follows:

AF1 - Left plug, close to the front panel
AF2 - Right plug, again like the AF1, close to the front panel
AF3 - on the rear of the board.

AF1 and AF2 plug numbering goes from right to left, 1 thru 6.

Adjusting the 3.3VDC and 9VDC required adjusting 2 small vertically mounted pots, VR1 and VR4. VR1 is located between AF1 and AF2. VR4 is located approximately in the middle of the board. There is a "light colored" pot located to the right rear, do not adjust this pot! Leave it alone.

Connect a DC volt meter to AF1 pin 1. The voltage should be close to 9VDC. If the voltage is lower or higher than 9VDC, adjust "VR4" so the meter reads 9VDC +/- .1VDC.

Now, move the meter's positive lead from AF1 pin 1 to AF2 pin 6. The voltage should measure approximately 3.3VDC, +/- .1VDC. If the voltage is not 3.3VDC, adjust VR1 so the meter displays 3.3VDC.

Allow the 820 to warm up for approximately "30 minutes" before attempting to measure and, if necessary, adjust these two voltages.

Next, spray some contact cleaner on the Band Switch wafers and the Function Switch. Rotate each switch through out their travels a few times. Use canned air to remove any excess contact cleaner. Wait 3 to 5 minutes before powering up the 820. Use only small amounts of contact cleaner, do NOT soak the switch wafers. Always use canned air to remove any excess contact cleaner.

Next, turn the 820 right side up, front panel facing you. The VFO is in the front middle of the chassis. Look on the right side of the VFO and you will see a small metal plate with 2 small phillips head screws. Remove one of the screws, rear screw is easiest to remove. Swing the plate upward so you can see the VFO's variable capacitor. Rotate the VFO to the top of the band. Look inside the square hole on the side of the VFO. You will notice the variable capacitor shaft has a "Fork" like device with the capacitor's shaft in the middle of the fork. Spray contact cleaner on this and rotate the VFO throughout it's travel a number of times. Again, with contact cleaner, remove excess contact cleaner. Also, again,

use just enough contact cleaner to remove any dirt or corrosion. Again, wait 3 to 5 minutes before applying power to the 820.

Now, reconnect all cables and power up the 820. Check each band for stability in the VFO. If all is well, turn on the calibrator, MARKER 25Khz setting on the FUNCTION switch, and tune the VFO to an even 00, or 100 interval on the dial. You should hear the MARKER signal. Adjust the DRIVE control for maximum meter display, in receive. Look at the digital display and the main analog dial, they should be very close to being either 0 or x.100 etc. If they are not, hold the round plastic ring behind the main tuning knob steady while rotating the main tuning knob so the digital display and main dial read even 0, x.100, etc, as you tune the VFO. The digital display should display the frequency of the main tuning dial, or very close to it.

If all is well then you have fixed your problem. If not, then turn power off, wait a few minutes for the power supplies to discharge to zero and remove all cables. Turn the 820 upside down and carefully, remove each plastic plug on each board, clean the pins with contact cleaner, and reinstall the plug. Do each plug individually so you do not loose track of where the plugs go. The "IF" board has quite a few plug and each one must be installed correctly, especially the filter selection plug, the next to last 3 wire plug. Installing this plug incorrectly can prevent the proper selection of the sideband and CW filter, if the CW filter is installed. See the 820's operating manual on how to install this plug. The DG-1, digital display unit, has "3" connections, one on the bottom of the Unit (under the chassis), one to the digital display tube, and one to the 5VDC supply, small PC board mounted on 2 metal stand off, between the rear of the IF board and the power transformer. Clean all 3 of the connectors, one at a time, and reinstall the plugs.

If the problem is still there, you will most likely have to remove the PLL UNIT assembly, remove the CAR1 and CAR2 boards inside the metal enclosure, and separate the two boards. Clean the pins that connect the 2 boards together, and reiconnect the 2 boards together and mount the boards in the metal enclosure and reinstall the PLL unit and reconnect the plugs to the PLL UNIT.

Check all PC board mounting screws to ensure they are tight. If necessary, loosen each screw 1 full turn then tighten the screw.

The relay contacts on the RELAY UNIT can become dirty with carbon build up which increases resistance through the relay contacts. The receiver's AGC voltage flows through the relay mounted on the RELAY UNIT, on the bottom in the middle of the chassis. If the contacts become dirty with carbon, the plastic cover must be removed. This is not easy but, with patients, you can remove it without breaking the plastic cover. Use contact cleaner on a piece of paper, slid between the contacts a number of times then use canned air to remove any excess contact cleaner. You may have to do this a few times but it's worth the trouble. The antenna change over relay contacts, located on the bottom and to the rear of the final unit, can also become a problem, especially with weak or intermittent receive sensitivity. The MARKER signal may appear to be strong but incoming signals may appear to be weak, carbon build up on the T/R relay. To remove this relay, remove the 2 screws holding the SG switch to the rear panel, pulling the SG switch gently forward. Now, remove the 2 screws that hold the T/R relay metal cover. Locate the 2 screws as they may fall down onto the chassis and may roll under the final unit. Do the same thing, remove the plastic outer covering and clean each relay contact with contact cleaner, being careful not to bend or twist the contacts. Clean each bottom plug in pin with a brush and contact clenaer. Remove any excessive contact cleaner with canned air and reinstall the relay. Be careful not to

bend any of the relay plug in pins.

Again, age and dirt/corrosion/carbon build up can cause all kinds of problems. Take your time and be careful removing and installing the plugs and relays. Check to see if the problem has been eliminated.

Sorry for being long.

73
Mike
W5RKL

21367. Please look in the parts boxes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-08 19:37:09 UTC
From: Kevin King
Topic: 21367 Message: 21367

Folks,

Please search your parts drawers, I am looking for a fundamental xtal at or about 14.135 mhz.

Thought I would check before I had one cut.

-Kevin

[Non-text portions of this message have been removed]

21368. Re: TS-830S without 12BY7; could be a problem?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-09 11:15:56 UTC
From: anet78a
Topic: 21363 Message: 21368

12BY7A received, but it doesn' work. Now I checked some others connection and... the violet/white wire from SG pin in the Final Unit to PD2 pin in the Rectifier Unit is disconnected... why this?

Maybe this radio has some other problem? Or maybe this OM was not authorised to transmit?

This evening I connect newly this wire as original...

--- In TS-520_820_530_830@yahoogroups.com, "anet78a" <Net78@...> wrote:
>
> Hello, I have received a Kenwood TS-830S with some form of cannibalism ... without 12BY7 driver tube and with 2x S2001A final tubes.
>
> In RX it's OK, removed some 'home made mods / bridge' (this radio was used with some datong audio processing or similar...) and now it sound good...
>
> I have TX with this radio without his driver tube (I didn't know); could be a problem?
> S2001A are 6146B compatible?
>
> I have 'ebayed' and waiting for a 12BY7 and 2x 6146B tubes; what can I test / measure before to replace these tubes?
>
> The RF unit and the Final unit seem to be original...
>

21369. dots in display

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-09 14:17:08 UTC
From: Robert Young
Topic: 21369 Message: 21369

Just put up my Hustler 4btv and several HF receivers display all dots or all
or some bands. Is it related to the antenna installation or just everything
broke at once?
73's de W4UHB
Robert

[Non-text portions of this message have been removed]

21370. Re: TS-830S without 12BY7; could be a problem?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-09 15:40:31 UTC
From: w5rkl
Topic: 21363 Message: 21370

I recommend testing the final tubes before applying power. I say this since you are not the original owner and you have no idea what condition the final tubes are in. Naturally, replace the driver tube with a known good 12BY7.

Inexpensive tube testers cannot test a tube in an RF environment. Most inexpensive tube testers can only test for shorted/open filaments, shorted elements (grid shorted to cathode, screen shorted to grid, etc), and simple conduction, nothing more. If you find one or both final tubes to be weak (conduction) or shorted, replace both of them. You do NOT have to purchase expensive "matched pairs"! That's a waste of money and you will not realize any improved performance with matched tubes over unmatched tubes!

When testing tubes, let the tube warm up for 5 to 10 minutes in the tester before testing. If any element will short due to heating the inside of the glass envelope, the 5 to 10 minute warm up period will aid in discovering heat related shorts in tubes. I have experienced 6146 tubes that test "good", no shorts, when allowed to warm up for only 2 or 3 minutes. However, allowing the tube to continue to warm up for an additional period of time, the tester indicated the tube was shorted.

I also recommend checking the final tube's cathode resistors, R2 thru R5, on the final amplifier PC board. You have turn the 830 upside down to locate the cathode resistors. Each one is 20 ohm at 1/2 watt. If one or more of these resistor indicate they are damaged or have changed resistance outside of the 10% tolerance, change all 4 of them with new 20 ohm 1/2 watt resistors.

If you end up replacing the finals, I strongly recommend neutralizing the final amplifiers. The final amplifier neutralizing procedure is covered in both, operating and service manuals for the 830. If you do not have either manual, you can download them from N6WK's website.

http://www.n6wk.com/kenwood/

I recommend you obtain these manuals, if you do not already have them, when servicing AND operating the 830.

Mike W5RKL

21371. Re: dots in display

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-09 18:36:38 UTC
From: w5rkl
Topic: 21369 Message: 21371

The antenna has nothing to do with failures of the receivers digital displays.

Since you didn't state what make and model of receivers you are using, providing suggestions to track down the source of the problem is not possible.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Robert Young <rjyoung67@...> wrote:
>
> Just put up my Hustler 4btv and several HF receivers display all dots or all
> or some bands. Is it related to the antenna installation or just everything
> broke at once?
> 73's de W4UHB
> Robert
>
>
> [Non-text portions of this message have been removed]
>

21372. Re: TS-830S without 12BY7; could be a problem?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-09 19:16:41 UTC
From: anet78a
Topic: 21363 Message: 21372

Also the red wire AC800 on Rectifier Unit was disconnected.

Now, on USB Mode I go on TX, Meter Switch on Ip; I read about 60 mA (corrected with Bias rear control). With Meter Switch on HV it's possibile to read about 900V.
On my second receiver I listen a tone, also without microphone connected to the TS830.

On Tune MODE, with Meter Switch on ALC or RF I don't read anything.

uffffff

Any Idea? Another wire disconnected?

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> I recommend testing the final tubes before applying power. I say this
> since you are not the original owner and you have no idea what
> condition the final tubes are in. Naturally, replace the driver tube
> with a known good 12BY7.
>
> Inexpensive tube testers cannot test a tube in an RF environment.
> Most inexpensive tube testers can only test for shorted/open
> filaments, shorted elements (grid shorted to cathode, screen shorted
> to grid, etc), and simple conduction, nothing more. If you find one
> or both final tubes to be weak (conduction) or shorted, replace both
> of them. You do NOT have to purchase expensive "matched pairs"!
> That's a waste of money and you will not realize any improved
> performance with matched tubes over unmatched tubes!
>
> When testing tubes, let the tube warm up for 5 to 10 minutes in the
> tester before testing. If any element will short due to heating the
> inside of the glass envelope, the 5 to 10 minute warm up period will
> aid in discovering heat related shorts in tubes. I have experienced
> 6146 tubes that test "good", no shorts, when allowed to warm up for
> only 2 or 3 minutes. However, allowing the tube to continue to warm
> up for an additional period of time, the tester indicated the tube
> was shorted.
>
> I also recommend checking the final tube's cathode resistors, R2 thru
> R5, on the final amplifier PC board. You have turn the 830 upside
> down to locate the cathode resistors. Each one is 20 ohm at 1/2 watt.
> If one or more of these resistor indicate they are damaged or have
> changed resistance outside of the 10% tolerance, change all 4 of them
> with new 20 ohm 1/2 watt resistors.
>
> If you end up replacing the finals, I strongly recommend neutralizing
> the final amplifiers. The final amplifier neutralizing procedure is

> covered in both, operating and service manuals for the 830. If you do
> not have either manual, you can download them from N6WK's website.
>
> http://www.n6wk.com/kenwood/
>
> I recommend you obtain these manuals, if you do not already have
> them, when servicing AND operating the 830.
>
> Mike W5RKL
>

21373. Re: [TS-520_820_530_830] Re: TS-830S without 12BY7; could be a problem?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-09 19:42:27 UTC
From: Dave ve3wej
Topic: 21363 Message: 21373

perhaps the carrier level or mike level is too low

----- Original Message -----
From: "anet78a" <Net78@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, June 09, 2009 3:16 PM
Subject: [TS-520_820_530_830] Re: TS-830S without 12BY7; could be a problem?

> Also the red wire AC800 on Rectifier Unit was disconnected.
>
> Now, on USB Mode I go on TX, Meter Switch on Ip; I read about 60 mA
> (corrected with Bias rear control). With Meter Switch on HV it's possibile
> to read about 900V.
> On my second receiver I listen a tone, also without microphone connected
> to the TS830.
>
> On Tune MODE, with Meter Switch on ALC or RF I don't read anything.
>
> uffffff
>
> Any Idea? Another wire disconnected?
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>>
>> I recommend testing the final tubes before applying power. I say this
>> since you are not the original owner and you have no idea what
>> condition the final tubes are in. Naturally, replace the driver tube
>> with a known good 12BY7.
>>
>> Inexpensive tube testers cannot test a tube in an RF environment.
>> Most inexpensive tube testers can only test for shorted/open
>> filaments, shorted elements (grid shorted to cathode, screen shorted
>> to grid, etc), and simple conduction, nothing more. If you find one
>> or both final tubes to be weak (conduction) or shorted, replace both
>> of them. You do NOT have to purchase expensive "matched pairs"!
>> That's a waste of money and you will not realize any improved
>> performance with matched tubes over unmatched tubes!
>>
>> When testing tubes, let the tube warm up for 5 to 10 minutes in the
>> tester before testing. If any element will short due to heating the
>> inside of the glass envelope, the 5 to 10 minute warm up period will
>> aid in discovering heat related shorts in tubes. I have experienced
>> 6146 tubes that test "good", no shorts, when allowed to warm up for
>> only 2 or 3 minutes. However, allowing the tube to continue to warm

>> up for an additional period of time, the tester indicated the tube
>> was shorted.
>>
>> I also recommend checking the final tube's cathode resistors, R2 thru
>> R5, on the final amplifier PC board. You have turn the 830 upside
>> down to locate the cathode resistors. Each one is 20 ohm at 1/2 watt.
>> If one or more of these resistor indicate they are damaged or have
>> changed resistance outside of the 10% tolerance, change all 4 of them
>> with new 20 ohm 1/2 watt resistors.
>>
>> If you end up replacing the finals, I strongly recommend neutralizing
>> the final amplifiers. The final amplifier neutralizing procedure is
>> covered in both, operating and service manuals for the 830. If you do
>> not have either manual, you can download them from N6WK's website.
>>
>> http://www.n6wk.com/kenwood/
>>
>> I recommend you obtain these manuals, if you do not already have
>> them, when servicing AND operating the 830.
>>
>> Mike W5RKL
>>
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

21374. Re: [TS-520_820_530_830] Re: dots in display

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-09 20:49:58 UTC
From: Robert Young
Topic: 21369 Message: 21374

Sorry about that!! It happened on my kenwood ts-440s, ts-180s and my
ts-940s at the same time. Working fine a week ago and then on the
newly-installed Hustler all 3 units went dots on me.
thanks
Robert

On Tue, Jun 9, 2009 at 1:36 PM, w5rkl <w5rkl@...> wrote:

>
>
> The antenna has nothing to do with failures of the receivers digital
> displays.
>
> Since you didn't state what make and model of receivers you are using,
> providing suggestions to track down the source of the problem is not
> possible.
>
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> Robert Young <rjyoung67@...> wrote:
> >
> > Just put up my Hustler 4btv and several HF receivers display all dots or
> all
> > or some bands. Is it related to the antenna installation or just
> everything
> > broke at once?
> > 73's de W4UHB
> > Robert
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>

[Non-text portions of this message have been removed]

21375. TS-520SE transmit alignment help needed

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-10 00:10:07 UTC
From: Herb
Topic: 21375 Message: 21375

Hey all,
My name is Herb and my call is KC5MO. I have aquired a TS-520SE from a coworker and got the adjsutments done on the MIX,ANT and DRIVE. The only thing left is to get it on frequency. So far 20 meters is spot on, but 160, 80 and 40 meters are off. Before I start tuning the OSC coils I figured I had better get some advice on getting the TX frequency aligned from some experts. All help/tips are greatly appriciated.

Thanks
Herb KC5MO

21376. Microphone for TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-10 01:08:55 UTC
From: redsboy@bellsouth.net
Topic: 21376 Message: 21376

I haven't been on SSB for 10 years. I'm a CW addict, but now I want to play with my TS-820S on SSB. The ham I bought it from included a nice Electro-Voice 638, but the specs on that model say "sensitiviy rating -153db" and the Kenwood manual says I must have a mike with sensitivity rating in the range of -50 to -60 or it won't work right. I would appreciate any recommendations for an affordable used mike I can use with my rig.

Thanks for your time and recommendations.

73,

Karl - W4UTI

21377. Re: Microphone for TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-10 03:45:28 UTC
From: andyman133
Topic: 21376 Message: 21377

Try http://www.kenselectronics.com/lists/hamant.htm
That is where I got mine.

--- In TS-520_820_530_830@yahoogroups.com, "redsboy@..." <redsboy@...> wrote:
>
> I haven't been on SSB for 10 years. I'm a CW addict, but now I want to play with my TS-820S on SSB. The ham I bought it from included a nice Electro-Voice 638, but the specs on that model say "sensitiviy rating -153db" and the Kenwood manual says I must have a mike with sensitivity rating in the range of -50 to -60 or it won't work right. I would appreciate any recommendations for an affordable used mike I can use with my rig.
>
> Thanks for your time and recommendations.
>
> 73,
>
> Karl - W4UTI
>

21378. Re: [TS-520_820_530_830] Microphone for TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-10 09:18:41 UTC
From: Gordon JC Pearce
Topic: 21376 Message: 21378

On Wed, 2009-06-10 at 01:08 +0000, redsboy@... wrote:
> I haven't been on SSB for 10 years. I'm a CW addict, but now I want to
> play with my TS-820S on SSB. The ham I bought it from included a nice
> Electro-Voice 638, but the specs on that model say "sensitiviy rating
> -153db" and the Kenwood manual says I must have a mike with
> sensitivity rating in the range of -50 to -60 or it won't work right.
> I would appreciate any recommendations for an affordable used mike I
> can use with my rig.

The only really important thing is the mike impedance. A low impedance mike won't really work with the TS-820 (or any other of the TS-[58][23]0 family) without a preamp. You need a high impedance mike, which typically has a little matching transformer in it. Many base-station mikes have a way of switching between high and low impedance, either with an actual switch or a reversible plug.

The first picture I found of an Electro-Voice 638 says "IMPEDANCE HI-Z" on the back, so that should be fine.

If you use a low-impedance mike on your TS-820, nothing bad will happen. You'll just sound quiet and muffled. At a pinch you could use a low-impedance mike and shout, if you were (for example) stuck on a desert island with a TS-520 and the wrong mike.

Gordon

21379. Re: [TS-520_820_530_830] Re: Microphone for TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-10 10:09:56 UTC
From: carboyhat@juno.com
Topic: 21376 Message: 21379

>Karl, the Electrovoice mic should do fine. I did a search on it and it
looks like one a local ham uses
with his vintage Heath equipment. The output level is -57 db which is
right in the range you need for your
TS-820S. The sensitivity level is a different parameter.

73 de Bob, AA4AI

--- In TS-520_820_530_830@yahoogroups.com, "redsboy@..."
> <redsboy@...> wrote:
> >
> > I haven't been on SSB for 10 years. I'm a CW addict, but now I
> want to play with my TS-820S on SSB. The ham I bought it from
> included a nice Electro-Voice 638, but the specs on that model say
> "sensitiviy rating -153db" and the Kenwood manual says I must have a
> mike with sensitivity rating in the range of -50 to -60 or it won't
> work right. I would appreciate any recommendations for an affordable
> used mike I can use with my rig.
> >
> > Thanks for your time and recommendations.
> >
> > 73,
> >
> > Karl - W4UTI
> >

Be more successful with these great CRM solutions. Click now!
http://thirdpartyoffers.juno.com/TGL2141/fc/BLSrjpTL9gcK2CsfYMTQf1alZVUkVyNGqQSzerql2Vg78z
AcxcLZ9jFH1Xi/

21380. Re: [TS-520_820_530_830] Microphone for TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-10 13:01:53 UTC
From: Sulaiman Abdullah
Topic: 21376 Message: 21380

When I got my TS520S from eBay it had no mike,
the only mike I had available was a low impedance (magnetic) desk microphone, so I tried it.
No problems making DX conacts etc.
So if you have any mic try it !
Sulaiman

P.S. I have to turn mic-gain to full so there may be some audio hiss, but compared to ssb noise probably insignificant.

----- Original Message -----
From: Gordon JC Pearce
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, June 10, 2009 10:18 AM
Subject: Re: [TS-520_820_530_830] Microphone for TS-820S

On Wed, 2009-06-10 at 01:08 +0000, redsboy@... wrote:
> I haven't been on SSB for 10 years. I'm a CW addict, but now I want to
> play with my TS-820S on SSB. The ham I bought it from included a nice
> Electro-Voice 638, but the specs on that model say "sensitiviy rating
> -153db" and the Kenwood manual says I must have a mike with
> sensitivity rating in the range of -50 to -60 or it won't work right.
> I would appreciate any recommendations for an affordable used mike I
> can use with my rig.

The only really important thing is the mike impedance. A low impedance mike won't really work with the TS-820 (or any other of the TS-[58][23]0 family) without a preamp. You need a high impedance mike, which typically has a little matching transformer in it. Many base-station mikes have a way of switching between high and low impedance, either with an actual switch or a reversible plug.

The first picture I found of an Electro-Voice 638 says "IMPEDANCE HI-Z" on the back, so that should be fine.

If you use a low-impedance mike on your TS-820, nothing bad will happen. You'll just sound quiet and muffled. At a pinch you could use a low-impedance mike and shout, if you were (for example) stuck on a desert island with a TS-520 and the wrong mike.

Gordon

[Non-text portions of this message have been removed]

21381. Re: [TS-520_820_530_830] Microphone for TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-10 16:55:11 UTC
From: Gordon JC Pearce
Topic: 21376 Message: 21381

On Wed, 2009-06-10 at 14:01 +0100, Sulaiman Abdullah wrote:
> When I got my TS520S from eBay it had no mike,
> the only mike I had available was a low impedance (magnetic) desk microphone, so I tried it.
> No problems making DX conacts etc.
> So if you have any mic try it !
> Sulaiman
>
> P.S. I have to turn mic-gain to full so there may be some audio hiss, but compared to ssb noise probably insignificant.

There are any number of simple mike preamp/filter/processor circuits out
there on that there Intarwebs. Pretty much all of them work, it's not
really something you can get wrong.

Any preamp with more than two transistors is more complicated than you
need for this ;-)

Gordon

21382. Re: Microphone for TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-10 19:37:36 UTC
From: redsboy@bellsouth.net
Topic: 21376 Message: 21382

I appreciate all your help. The manual is VERY specific in saying the sensitivity MUST be between -50 and -60, or the rig won't work right. Also, I talked with Heil Sound and Bob Heil said the TS-820S is the rig he used to develop his HM-5 mike element and that should work perfectly. Unfortunately, it costs $70 for just the element. They (Heil) also suggested I look for a used Heil Classic which should do nicely. I guess I'll take the cowards way out and stay on CW a little longer. Thanks again, folks.

73,
Karl - W4UTI
--- In TS-520_820_530_830@yahoogroups.com, "redsboy@..." <redsboy@...> wrote:
>
> I haven't been on SSB for 10 years. I'm a CW addict, but now I want to play with my TS-820S on SSB. The ham I bought it from included a nice Electro-Voice 638, but the specs on that model say "sensitiviy rating -153db" and the Kenwood manual says I must have a mike with sensitivity rating in the range of -50 to -60 or it won't work right. I would appreciate any recommendations for an affordable used mike I can use with my rig.
>
> Thanks for your time and recommendations.
>
> 73,
>
> Karl - W4UTI
>

21383. TS-820S & SM-220

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-10 20:05:31 UTC
From: sceneryguru
Topic: 21383 Message: 21383

Good Afternoon:

My TS-820S has an IF output on its back panel. Can I run the output directly into the SM-220 IF input?

I understand that the TS-830S series could... but was lead to believe that the TS-820S couldn't without a modification from the BS-8 out.

PS: I'm a new member of the group... glad I found you folks.

TNX & 73

Tom G, Sr
K3SSB

21384. Re: [TS-520_820_530_830] Re: Microphone for TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-10 21:17:05 UTC
From: Gordon JC Pearce
Topic: 21376 Message: 21384

On Wed, 2009-06-10 at 19:37 +0000, redsboy@... wrote:
> I appreciate all your help. The manual is VERY specific in saying the
> sensitivity MUST be between -50 and -60, or the rig won't work right.
> Also, I talked with Heil Sound and Bob Heil said the TS-820S is the
> rig he used to develop his HM-5 mike element and that should work
> perfectly. Unfortunately, it costs $70 for just the element. They
> (Heil) also suggested I look for a used Heil Classic which should do
> nicely. I guess I'll take the cowards way out and stay on CW a little
> longer. Thanks again, folks.

The TS-520 manual makes no mention of "sensitivity" for the microphone,
only that it needs to be 50k impedance. I don't really see how you
could have a useful measurement of sensitivity here.

Like I said previously, just about anything with a high-impedance output
or a preamp will work. There's no great mystery to it.

Gordon

21385. Re: just hearing static

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-10 21:47:54 UTC
From: Angelica
Topic: 21346 Message: 21385

James,
I got the radio back on Monday. The Elmer couldn't find anything (see I figured it was the user, aka ME LOL). He did replace the paperclip jumper by creating the plug for it, so maybe that's why it works again? I might get on tomorrow night to see how it goes.

Thanks for the suggestion.

73 Angie KD8HMS

2a. Re: just hearing static
    Posted by: "james27613" james27613@... james27613
    Date: Thu Jun 4, 2009 6:11 pm ((PDT))

Hi Angie,

Please remove and install the jumper paperclip,
sometimes that connection gets dirty and no receive,
just static.

You may want to check the plastic shaft couplers,
they may need to be replaced.

use a business card, trim it with scissors,
a drop or two of DeOxit to clean the relay contacts.
they are very delicate, go slow and you'll do fine.

Let us know what you find.

73 james ke4dɾn

[Non-text portions of this message have been removed]

21386. Re: [TS-520_820_530_830] Microphone for TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-10 22:17:12 UTC
From: richard
Topic: 21376 Message: 21386

On Wed, 10 Jun 2009 01:08:55 -0000
"redsboy@..." <redsboy@...> wrote:

> I haven't been on SSB for 10 years. I'm a CW addict, but now I want
> to play with my TS-820S on SSB. The ham I bought it from included a
> nice Electro-Voice 638, but the specs on that model say "sensitiviy
> rating -153db" and the Kenwood manual says I must have a mike with
> sensitivity rating in the range of -50 to -60 or it won't work right.
> I would appreciate any recommendations for an affordable used mike I
> can use with my rig.
>
> Thanks for your time and recommendations.
>
> 73,
>
> Karl - W4UTI
>

I must admit to getting more than a bit frustrated with the technical
demise of the average Ham.

take the above
"but the specs on that model say "sensitiviy rating -153db"
dB relative to what ?
a millivolt
a microvolt
a volt
a milliwatt into 600 ohms
a milliwatt in to 50 ohms

Come on guys a dB is a logarithmic unit of the ratio between two levels.
It takes a lot to overload the first stage of the Mic amp, and should
it be to high there's a knob on the front "Mic GaiN" which can be
adjusted.
I guess Mike W5RKL must read some of the questions asked with
disbelieve at the low level of of understanding of very basic
electronics. But I give him a lot of credit for always answering and
being helpful.
I know technical requisite levels have dropped in the UK for gaining a
licence, but what's happened in the USA ?

One of the reasons Hams are recruited by electronics companies is their
resourcefulness, their ability to be able to often misuse equipment to
make it do what they want it to.

Whats happened to the plug it in and see if it works, or have we gone totally mad with Health & Safety regulations needing training and a certificate before plugging it in.

If I'm the only person who feels this way I'll leave the list. But I'd prefer to stay just in case someone asks a question I can help with, I must have learnt a few things in the last forty odd years I've been working with RF.

--
Best wishes

Richard Bown

##
Registered Linux User 36561
OS: Mandriva 2009.1 Spring Powerpack on an AMD Dual Athlon 64 +4400: 8 GB RAM DDR2 Ham Call: G8JVM , QRA IO82SP, Interests Microwave 1.3 GHz,2.3 GHz & 5.7GHz & 10 GHz
##

21387. Re: [TS-520_820_530_830] Microphone for TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-10 22:27:36 UTC
From: n6wk@n6wk.com
Topic: 21376 Message: 21387

I see it that the only DUMB/ In appropriate question is the one that is
not asked.
I have no issue with people asking even the basics of questions.
Part of being a Ham is helping others. Or at least for me it is!
Karl has a legitimate Question in my opinion.
73,
Gordon
N6Wk

richard wrote:
>
>
> On Wed, 10 Jun 2009 01:08:55 -0000
> "redsboy@... <mailto:redsboy%40bellsouth.net>"
> <redsboy@... <mailto:redsboy%40bellsouth.net>> wrote:
>
> > I haven't been on SSB for 10 years. I'm a CW addict, but now I want
> > to play with my TS-820S on SSB. The ham I bought it from included a
> > nice Electro-Voice 638, but the specs on that model say "sensitiviy
> > rating -153db" and the Kenwood manual says I must have a mike with
> > sensitivity rating in the range of -50 to -60 or it won't work right.
> > I would appreciate any recommendations for an affordable used mike I
> > can use with my rig.
> >
> > Thanks for your time and recommendations.
> >
> > 73,
> >
> > Karl - W4UTI
> >
>
> I must admit to getting more than a bit frustrated with the technical
> demise of the average Ham.
>
> take the above
> "but the specs on that model say "sensitiviy rating -153db"
> dB relative to what ?
> a millivolt
> a microvolt
> a volt
> a milliwatt into 600 ohms
> a milliwatt in to 50 ohms
>
> Come on guys a dB is a logarithmic unit of the ratio between two levels.
> It takes a lot to overload the first stage of the Mic amp, and should

> it be to high there's a knob on the front "Mic GaiN" which can be
> adjusted.
> I guess Mike W5RKL must read some of the questions asked with
> disbelieve at the low level of of understanding of very basic
> electronics. But I give him a lot of credit for always answering and
> being helpful.
> I know technical requisite levels have dropped in the UK for gaining a
> licence, but what's happened in the USA ?
>
> One of the reasons Hams are recruited by electronics companies is their
> resourcefulness, their ability to be able to often misuse equipment to
> make it do what they want it to.
>
> Whats happened to the plug it in and see if it works, or have we gone
> totally mad with Health & Safety regulations needing training and a
> certificate before plugging it in.
>
> If I'm the only person who feels this way I'll leave the list. But I'd
> prefer to stay just in case someone asks a question I can help with, I
> must have learnt a few things in the last forty odd years I've been
> working with RF.
>
> --
> Best wishes
>
> Richard Bown
>
> ###
> Registered Linux User 36561
> OS: Mandriva 2009.1 Spring Powerpack on an AMD Dual Athlon 64 +4400: 8
> GB RAM DDR2 Ham Call: G8JVM , QRA IO82SP, Interests Microwave 1.3
> GHz,2.3 GHz & 5.7GHz & 10 GHz
> ###
>
> _

21388. Newly Aquired TS-520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-10 22:31:46 UTC
From: Gmail - Kevin, Natalia, Stacey & Rochelle
Topic: 21388 Message: 21388

HI All,

Just aquired a TS-520S in good condition for it's age.

Has a good RX and TX is excellent with 130 watts into a matched antenna and dummy load.

However a couple of minor issues I would like to fix
1. the VOX switch is broken, is there replacement swtiches to fix?
2. The mic was lost from the owner and replaced with a GE CB mic. The impedenace are the same, just would be nice to have a Kenwood mic.

Not much else to know about this radio, need to get it on the desk and fully look it over and try it out.

Regards

Kevin, ZL1KFM.

[Non-text portions of this message have been removed]

21389. Re: [TS-520_820_530_830] Microphone for TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-10 22:44:17 UTC
From: Don Thomas
Topic: 21376 Message: 21389

I second that opinion. Always providing help if I can.

Don T. // K5ZRQ

--- On Wed, 6/10/09, n6wk@... <n6wk@...> wrote:

From: n6wk@... <n6wk@...>
Subject: Re: [TS-520_820_530_830] Microphone for TS-820S
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, June 10, 2009, 5:27 PM

I see it that the only DUMB/ In appropriate question is the one that is
not asked.
I have no issue with people asking even the basics of questions.
Part of being a Ham is helping others. Or at least for me it is!
Karl has a legitimate Question in my opinion.
73,
Gordon
N6Wk

richard wrote:
>
>
> On Wed, 10 Jun 2009 01:08:55 -0000
> "redsboy@bellsouth. net <mailto:redsboy% 40bellsouth. net>"
> <redsboy@bellsouth. net <mailto:redsboy% 40bellsouth. net>> wrote:
>
> > I haven't been on SSB for 10 years. I'm a CW addict, but now I want
> > to play with my TS-820S on SSB. The ham I bought it from included a
> > nice Electro-Voice 638, but the specs on that model say "sensitiviy
> > rating -153db" and the Kenwood manual says I must have a mike with
> > sensitivity rating in the range of -50 to -60 or it won't work right.
> > I would appreciate any recommendations for an affordable used mike I
> > can use with my rig.
> >
> > Thanks for your time and recommendations.
> >
> > 73,
> >
> > Karl - W4UTI
> >
>
> I must admit to getting more than a bit frustrated with the technical
> demise of the average Ham.
>
> take the above

> "but the specs on that model say "sensitiviy rating -153db"
> dB relative to what ?
> a millivolt
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> a volt
> a milliwatt into 600 ohms
> a milliwatt in to 50 ohms
>
> Come on guys a dB is a logarithmic unit of the ratio between two levels.
> It takes a lot to overload the first stage of the Mic amp, and should
> it be to high there's a knob on the front "Mic GaiN" which can be
> adjusted.
> I guess Mike W5RKL must read some of the questions asked with
> disbelieve at the low level of of understanding of very basic
> electronics. But I give him a lot of credit for always answering and
> being helpful.
> I know technical requisite levels have dropped in the UK for gaining a
> licence, but what's happened in the USA ?
>
> One of the reasons Hams are recruited by electronics companies is their
> resourcefulness, their ability to be able to often misuse equipment to
> make it do what they want it to.
>
> Whats happened to the plug it in and see if it works, or have we gone
> totally mad with Health & Safety regulations needing training and a
> certificate before plugging it in.
>
> If I'm the only person who feels this way I'll leave the list. But I'd
> prefer to stay just in case someone asks a question I can help with, I
> must have learnt a few things in the last forty odd years I've been
> working with RF.
>
> --
> Best wishes
>
> Richard Bown
>
> ########## ########## ########## ########## ########## ########## ########## ##########
##########
> Registered Linux User 36561
> OS: Mandriva 2009.1 Spring Powerpack on an AMD Dual Athlon 64 +4400: 8
> GB RAM DDR2 Ham Call: G8JVM , QRA IO82SP, Interests Microwave 1.3
> GHz,2.3 GHz & 5.7GHz & 10 GHz
> ########## ########## ########## ########## ########## ########## ########## ##########
##########
>
> _

[Non-text portions of this message have been removed]

21390. Re: [TS-520_820_530_830] Re: Microphone for TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-10 22:56:09 UTC
From: Steve
Topic: 21376 Message: 21390

Almost any crystal mike such as the D104 should work. I've been using a $1.49 replacement crystal cartridge from the long gone Lafayette Radio since my Heathkit DX40 days and now on my TS530s with good reports all these years.

Good luck and have fun
Steve W4IMF

----- Original Message -----
From: redsboy@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, June 10, 2009 3:37 PM
Subject: [TS-520_820_530_830] Re: Microphone for TS-820S

I appreciate all your help. The manual is VERY specific in saying the sensitivity MUST be between -50 and -60, or the rig won't work right. Also, I talked with Heil Sound and Bob Heil said the TS-820S is the rig he used to develop his HM-5 mike element and that should work perfectly. Unfortunately, it costs $70 for just the element. They (Heil) also suggested I look for a used Heil Classic which should do nicely. I guess I'll take the cowards way out and stay on CW a little longer. Thanks again, folks.

73,
Karl - W4UTI
--- In TS-520_820_530_830@yahoogroups.com, "redsboy@..." <redsboy@...> wrote:
>
> I haven't been on SSB for 10 years. I'm a CW addict, but now I want to play with my TS-820S on SSB. The ham I bought it from included a nice Electro-Voice 638, but the specs on that model say "sensitiviy rating -153db" and the Kenwood manual says I must have a mike with sensitivity rating in the range of -50 to -60 or it won't work right. I would appreciate any recommendations for an affordable used mike I can use with my rig.
>
> Thanks for your time and recommendations.
>
> 73,
>
> Karl - W4UTI
>

Certified Virus Free
Checked by AVG - www.avg.com
Version: 8.5.339 / Virus Database: 270.12.61/2167 - Release Date: 06/10/09 05:52:00

[Non-text portions of this message have been removed]

21391. Re: [TS-520_820_530_830] Microphone for TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-10 22:56:46 UTC
From: K5vse-Mike
Topic: 21376 Message: 21391

I've been watching this thread for a while now.

Just to answer Karl's question: I used and EV638 on one of my TS-520's for a couple of years. Got great audio reports. Did not have to use anymore audio gain than I did with an old MC-50. Matter of fact, I have a 520 on the bench now, and will probably use the 638 on it when the repairs are finished.

Just my opinion, but it worked with no problems at all.

Have a nice day es 73,
Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2009
"In God We Trust"

[Non-text portions of this message have been removed]

21392. Re: [TS-520_820_530_830] Newly Aquired TS-520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-10 22:59:57 UTC
From: Gordon JC Pearce
Topic: 21388 Message: 21392

On Thu, 2009-06-11 at 10:31 +1200, Gmail - Kevin, Natalia, Stacey &
Rochelle wrote:
> HI All,
>
> Just aquired a TS-520S in good condition for it's age.
>
> Has a good RX and TX is excellent with 130 watts into a matched antenna and dummy load.
>
> However a couple of minor issues I would like to fix
> 1. the VOX switch is broken, is there replacement swtiches to fix?
> 2. The mic was lost from the owner and replaced with a GE CB mic. The impedenace are the
same, just would be nice to have a Kenwood mic.

The switches are (as far as I've seen) only available from people
parting out other TS-[58][23]0 radios. The two most common mikes seem
to be the Kenwood MC-50 desk mike and the MC-10 fist mike. I use the
latter, because I just don't have room for a desk mike. Both crop up on
eBay from time to time.

Gordon MM3YEQ

21393. Re: [TS-520_820_530_830] Microphone for TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-10 23:10:06 UTC
From: Gordon JC Pearce
Topic: 21376 Message: 21393

On Wed, 2009-06-10 at 15:27 -0700, n6wk@... wrote:
> I see it that the only DUMB/ In appropriate question is the one that is
> not asked.
> I have no issue with people asking even the basics of questions.
> Part of being a Ham is helping others. Or at least for me it is!
> Karl has a legitimate Question in my opinion.
> 73,
> Gordon
> N6Wk

It's often useful to steer people in the direction of the "Smart Questions" FAQ, even if it is more orientated towards computers - http://catb.org/esr/faqs/smart-questions.html
Quite often people ask "stupid" questions because they don't quite know how to frame the question accurately. Once you've found the right question, it often answers itself.

One of the great things about amateur radio is that everyone has a different field of interest and expertise, so you can generally find *someone* who has the knowledge or bits that you need. Quite often the bit of knowledge that people need is obvious to you but totally counter-intuitive to them!

I agree with Richard's point about people just not trying stuff any more. That's one of the reasons I stopped hanging about in ##electronics on Freenode - you can get tired of explaining why you don't get 23.74 ohm resistors for running LEDs off 5V supplies, and why you don't need them. The electronic music fora and lists are much the same - people get bogged down in detail but never plug in the iron. Or mike, or morse key, or whatever else.

Heigh-ho, I suppose the less time I spend in front of the computer railing against ignorance, the more time I have to brush up my CW.

Gordon MM3YEQ

21394. Re: [TS-520_820_530_830] TS-820S & SM-220

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-11 01:26:24 UTC
From: Dave ve3wej
Topic: 21383 Message: 21394

i beleive the 820 required the bs5 pan adapter, NOT the bs-8. I know of no mod, but you never know

----- Original Message -----
From: "sceneryguru" <k3ssb@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, June 10, 2009 4:05 PM
Subject: [TS-520_820_530_830] TS-820S & SM-220

> Good Afternoon:
>
> My TS-820S has an IF output on its back panel. Can I run the output
> directly into the SM-220 IF input?
>
> I understand that the TS-830S series could... but was lead to believe that
> the TS-820S couldn't without a modification from the BS-8 out.
>
> PS: I'm a new member of the group... glad I found you folks.
>
> TNX & 73
>
> Tom G, Sr
> K3SSB
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

21395. Re: [TS-520_820_530_830] dots in display

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-11 05:02:29 UTC
From: Corky Kirk
Topic: 21369 Message: 21395

```
try another antenna and see...
W6ORS

--- On Tue, 6/9/09, Robert Young <rjyoung67@...> wrote:

> From: Robert Young <rjyoung67@...>
> Subject: [TS-520_820_530_830] dots in display
> To: TS-520_820_530_830@yahoogroups.com
> Date: Tuesday, June 9, 2009, 4:17 AM
>
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>
>
> Just put up my Hustler 4btv and several HF
> receivers display all dots or all
>
> or some bands. Is it related to the antenna installation
> or just everything
>
> broke at once?
>
> 73's de W4UHB
>
> Robert
>
>
```

>
> [Non-text portions of this message have been removed]
>
>
>

21396. Re: [TS-520_820_530_830] Re: Microphone for TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-11 06:03:53 UTC
From: martin
Topic: 21376 Message: 21396

Hi Karl. First of all, Heil products are very overpriced, and in my opinion do not sound any better than other mics. Of course Bob Heil is only going to recommend Heil products. The Electro-Voice 638 mic should work fine. You could also find an MC-50, or a Sure 444, as both are commonly used on many older radios. These older Kenwoods sound good with almost any microphone you can find. I have used hand mics that came from junked CB radios (impedance unknown)on my TS-530S, and the TS-520 I had years ago with good reports.

The standard CB hand mic will require some re-wiring inside the mic. Most amplified mics had a switch. You do have to be careful with amplified mics though. If not set properly, they will pick up every little sound. In many cases you will need a quiet room when using an amplified mic.

This group and others like it are here so that the more knowledgeable folks can help those who need help, and share their experiences.

TTYL

redsboy@... wrote:
> I appreciate all your help. The manual is VERY specific in saying
> the sensitivity MUST be between -50 and -60, or the rig won't work
> right. Also, I talked with Heil Sound and Bob Heil said the TS-820S
> is the rig he used to develop his HM-5 mike element and that should
> work perfectly. Unfortunately, it costs $70 for just the element.
> They (Heil) also suggested I look for a used Heil Classic which
> should do nicely. I guess I'll take the cowards way out and stay on
> CW a little longer. Thanks again, folks.

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

21397. Re: [TS-520_820_530_830] TS-820S & SM-220

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-11 10:14:19 UTC
From: carboyhat@juno.com
Topic: 21383 Message: 21397

If you connect the IF OUT on the back of your TS-820S to the V. INPUT on
the lower left
front panel of the SM-220, you should get a pattern on the scope screen
when receiving. If the
BS-8 pan adaptor is installed inside the scope, the band scope function
will function also.

73 de Bob, AA4AI

>
> ----- Original Message -----
> From: "sceneryguru" <k3ssb@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Wednesday, June 10, 2009 4:05 PM
> Subject: [TS-520_820_530_830] TS-820S & SM-220
>
>
> > Good Afternoon:
> >
> > My TS-820S has an IF output on its back panel. Can I run the
> output
> > directly into the SM-220 IF input?
> >
> > I understand that the TS-830S series could... but was lead to
> believe that
> > the TS-820S couldn't without a modification from the BS-8 out.
> >
> > PS: I'm a new member of the group... glad I found you folks.
> >
> > TNX & 73
> >
> > Tom G, Sr
> > K3SSB
>

Click here to find the perfect banking opportunity!
http://thirdpartyoffers.juno.com/TGL2141/fc/BLSrjpTMLunWneHkusQWjoT4QVRRTCbgoegvwBzVKZIkGw
VTBlhjhAFLEFC/

21398. Re: TS-820S & SM-220

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-11 12:14:37 UTC
From: w5rkl
Topic: 21383 Message: 21398

An unmodified TS-820 does NOT have an IF out connection on the rear
panel.

The 2 female RCA sockets on the rear panel, between the fan plug and
the SG switch, are for connecting the X-Verter "IN" and "OUT"
connections. Neither of these sockets provide an IF signal.

The 2 female RCA sockets located below the 8 pin octal socket
provide transmit and receive "Audio" connections for external
"audio" devices such as a phone patch, computer sound card interface,
etc. Again, neither of these socket provide an IF signal.

The step by step modification instructions are covered in the SM-220
operator's manual on page 16.

If you do not have the SM-220 and the TS-820 manuals, you can download
them free at the following links.

SM-220 manual link:

http://www.radioamateur.eu/schemi/Kenwood_SM220_user.pdf

TS-820 manual link:

http://www.kenwoodusa.com/Support/Amateur_Radio/#_

Simply scroll down to the manual portion, click the drop down
menu, and select TS-820S. When the download link appears, click the
link and download the manual.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, carboyhat@... wrote:
>
> If you connect the IF OUT on the back of your TS-820S to the V. INPUT on
> the lower left
> front panel of the SM-220, you should get a pattern on the scope screen
> when receiving. If the
> BS-8 pan adaptor is installed inside the scope, the band scope function
> will function also.
>
> 73 de Bob, AA4AI
> --
>
> >
> > ----- Original Message -----
> > From: "sceneryguru" <k3ssb@...>
> > To: <TS-520_820_530_830@yahoogroups.com>

> > Sent: Wednesday, June 10, 2009 4:05 PM
> > Subject: [TS-520_820_530_830] TS-820S & SM-220
> >
> >
> > > Good Afternoon:
> > >
> > > My TS-820S has an IF output on its back panel. Can I run the
> > output
> > > directly into the SM-220 IF input?
> > >
> > > I understand that the TS-830S series could... but was lead to
> > believe that
> > > the TS-820S couldn't without a modification from the BS-8 out.
> > >
> > > PS: I'm a new member of the group... glad I found you folks.
> > >
> > > TNX & 73
> > >
> > > Tom G, Sr
> > > K3SSB
> >
> _____
> Click here to find the perfect banking opportunity!
> http://thirdpartyoffers.juno.com/TGL2141/fc/BLSrjpTMLunWneHkusQWjoT4QVRRTCbgoegvwBzVKZIkGwVTBlhjhAFLEFC/
>

21399. Re: Microphone for TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-11 15:36:02 UTC
From: w5rkl
Topic: 21376 Message: 21399

Martin wrote:
"> Most amplified mics had a switch. You do have to be careful with amplified mics though. If not set properly, they will pick up every little sound."

Martin is correct but there is another problem that is associated with amplified microphones.

Quite often, users of amplified microphone do not adjust the radio and the microphone gain controls properly. An improperly set MIC gain and amplified microphone gain control, can easily create distortion which results in splatter.

Here's a easy procedure to properly set both gain controls, the radio's MIC gain and the amplified microphone's gain control.

Plug a non-amplified microphone into the radio. Set the meter to ALC, connect the radio to a dummy load, then press the PTT button. While speaking into the microphone in a normal voice, adjust the MIC gain for a peak ALC meter reading that does not exceed the ALC scale.

Next, connect the amplified microphone to the radio. Set the amplified microphone's gain control to minimum, set the radio's meter to ALC, but do NOT adjust the radio's MIC gain setting! Again, while speaking into the microphone in a normal voice, adjust the microphone's gain control so the peak ALC meter indications are "slightly" less than the non-amplified ALC meter peaks. Ensure to turn the radio's speech processing "OFF" when using an amplified microphone!

If reports of distortion, splatter, or other abnormal audio are received while using an amplified microphone, cease using the amplified microphone. Determine the source of the distortion and eliminate it before using the amplified microphone again.

Knowingly using a microphone that produces distortion which results in splatter to adjacent frequencies above and below the operating frequency is a violation of part 97 of the FCC rules and regulations and is defined as "intentional interference!"

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@...> wrote:
>
> Hi Karl. First of all, Heil products are very overpriced, and in my
> opinion do not sound any better than other mics. Of course Bob Heil

> is only going to recommend Heil products. The Electro-Voice 638 mic
> should work fine. You could also find an MC-50, or a Sure 444, as
> both are commonly used on many older radios. These older Kenwoods
> sound good with almost any microphone you can find. I have used hand
> mics that came from junked CB radios (impedance unknown)on my TS-530S,
> and the TS-520 I had years ago with good reports.
>
> The standard CB hand mic will require some re-wiring inside the mic.
> Most amplified mics had a switch. You do have to be careful with
> amplified mics though. If not set properly, they will pick up every
> little sound. In many cases you will need a quiet room when using an
> amplified mic.
>
> This group and others like it are here so that the more knowledgeable
> folks can help those who need help, and share their experiences.
>
> TTYL
>
> redsboy@... wrote:
> > I appreciate all your help. The manual is VERY specific in saying
> > the sensitivity MUST be between -50 and -60, or the rig won't work
> > right. Also, I talked with Heil Sound and Bob Heil said the TS-820S
> > is the rig he used to develop his HM-5 mike element and that should
> > work perfectly. Unfortunately, it costs $70 for just the element.
> > They (Heil) also suggested I look for a used Heil Classic which
> > should do nicely. I guess I'll take the cowards way out and stay on
> > CW a little longer. Thanks again, folks.
>
> --
> CUL8R
>
> KBOHAE kb0hae@... Martin Campbell
>
> A Satisfied Sidux Linux user! To get Sidux go to:
> www.sidux.com/index.html
> "Protect your digital freedom and privacy, eliminate DRM, learn more
> at http://www.defectivebydesign.org/what_is_drm"
>

21400. Re: [TS-520_820_530_830] Re: TS-820S & SM-220

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-11 16:22:24 UTC
From: n6wk@n6wk.com
Topic: 21383 Message: 21400

Mike,
I have 2 UNmodified 820's here and they BOTH have the IF out on the back.
When looking at the rig from the rear, they are in the upper right corner.
The label is hard stamped into the back panel from the factory.

73,
gordon

w5rkl wrote:
>
>
> An unmodified TS-820 does NOT have an IF out connection on the rear
> panel.
>
> The 2 female RCA sockets on the rear panel, between the fan plug and
> the SG switch, are for connecting the X-Verter "IN" and "OUT"
> connections. Neither of these sockets provide an IF signal.
>
> The 2 female RCA sockets located below the 8 pin octal socket
> provide transmit and receive "Audio" connections for external
> "audio" devices such as a phone patch, computer sound card interface,
> etc. Again, neither of these socket provide an IF signal.
>
> The step by step modification instructions are covered in the SM-220
> operator's manual on page 16.
>
> If you do not have the SM-220 and the TS-820 manuals, you can download
> them free at the following links.
>
> SM-220 manual link:
>
> http://www.radioamateur.eu/schemi/Kenwood_SM220_user.pdf
> <http://www.radioamateur.eu/schemi/Kenwood_SM220_user.pdf>
>
> TS-820 manual link:
>
> http://www.kenwoodusa.com/Support/Amateur_Radio/#_
> <http://www.kenwoodusa.com/Support/Amateur_Radio/#_>
>
> Simply scroll down to the manual portion, click the drop down
> menu, and select TS-820S. When the download link appears, click the
> link and download the manual.
>
> Mike W5RKL
>

> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, carboyhat@... wrote:
> >
> > If you connect the IF OUT on the back of your TS-820S to the V. INPUT on
> > the lower left
> > front panel of the SM-220, you should get a pattern on the scope screen
> > when receiving. If the
> > BS-8 pan adaptor is installed inside the scope, the band scope function
> > will function also.
> >
> > 73 de Bob, AA4AI
> > ----------
> >
> > >
> > > ----- Original Message -----
> > > From: "sceneryguru" <k3ssb@...>
> > > To: <TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>>
> > > Sent: Wednesday, June 10, 2009 4:05 PM
> > > Subject: [TS-520_820_530_830] TS-820S & SM-220
> > >
> > >
> > > > Good Afternoon:
> > > >
> > > > My TS-820S has an IF output on its back panel. Can I run the
> > > output
> > > > directly into the SM-220 IF input?
> > > >
> > > > I understand that the TS-830S series could... but was lead to
> > > believe that
> > > > the TS-820S couldn't without a modification from the BS-8 out.
> > > >
> > > > PS: I'm a new member of the group... glad I found you folks.
> > > >
> > > > TNX & 73
> > > >
> > > > Tom G, Sr
> > > > K3SSB
> > >
> > > _____
>

21401. Re: [TS-520_820_530_830] dots in display

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-11 16:46:44 UTC
From: richard
Topic: 21369 Message: 21401

```
On Wed, 10 Jun 2009 22:02:29 -0700 (PDT)
Corky Kirk <w6ors@...> wrote:

>
> try another antenna and see...
> W6ORS
>
> --- On Tue, 6/9/09, Robert Young <rjyoung67@...> wrote:
>
> >
Don't some of the rigs mentioned blank the displays when tuned out of
band ?

If so turn the big knob on the front panel

--
Best wishes

Richard Bown

##########################################################################################
Registered Linux User 36561
OS: Mandriva 2009.1 Spring Powerpack on an AMD Dual Athlon 64 +4400: 8
GB RAM DDR2 Ham Call: G8JVM , QRA IO82SP, Interests Microwave 1.3
GHz,2.3 GHz & 5.7GHz & 10 GHz
##########################################################################################
```

21402. Main Dial Calibration

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-11 17:55:41 UTC
From: scott10k
Topic: 21402 Message: 21402

On my TS-520S, my main dial is out of calibration with the 25 KHz marker and with WWV. How do I get it into calibration? Is that a VFO adjustment? Any advice would be appreciated.
73s, Scott, N6CIC

21403. Re: Microphone for TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-11 18:00:45 UTC
From: redsboy@bellsouth.net
Topic: 21376 Message: 21403

Hey, folks, I certainly didn't mean to start any heated discussion about microphones or even my intelligence. (The latter has ALWAYS been in question.) But I seem to have peeked the ire of at least one of my fellow hams. I apologize. By way of general information, I did try the EV 638 FIRST! And when I received reports of mushy and otherwise bad audio, I tried adjusting things like the mike gain, drive, checked the ALC, and even my headphones, but to no avail. So, when all else failed, I read the manual. It just seemed to me that Kenwood had been making pretty good ham radios for a while and probably knew what they were doing when they spent the time and ink to go into detail (with warnings) about the mike sensitivity requirements. Frankly, I'd never bothered with mike sensitivity before, but they made the radio, so I decided to see if anyone else could offer advice. You have all been most helpful. If, someday, I can, I will help you.

Thanks for your time and recommendations. My apologies to anyone who has been insulted by my question.

73,

Karl - W4UTI

21404. more on Dots in display.....

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-11 18:25:58 UTC
From: Robert Young
Topic: 21404 Message: 21404

The dots show up when I stop tuning and that's on every band of my
TS-440S. In band or not cause the 440S is a general coverage receiver.
And of course no matter what antenna......

thanks
Robert - W4UHB

[Non-text portions of this message have been removed]

21405. Re: [TS-520_820_530_830] Re: Microphone for TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-11 19:01:22 UTC
From: richard
Topic: 21376 Message: 21405

On Thu, 11 Jun 2009 18:00:45 -0000
"redsboy@..." <redsboy@...> wrote:

> Hey, folks, I certainly didn't mean to start any heated discussion
> about microphones or even my intelligence. (The latter has ALWAYS
> been in question.) But I seem to have peeked the ire of at least one
> of my fellow hams. I apologize. By way of general information, I did
> try the EV 638 FIRST! And when I received reports of mushy and
> otherwise bad audio, I tried adjusting things like the mike gain,
> drive, checked the ALC, and even my headphones, but to no avail. So,
> when all else failed, I read the manual. It just seemed to me that
> Kenwood had been making pretty good ham radios for a while and
> probably knew what they were doing when they spent the time and ink
> to go into detail (with warnings) about the mike sensitivity
> requirements. Frankly, I'd never bothered with mike sensitivity
> before, but they made the radio, so I decided to see if anyone else
> could offer advice. You have all been most helpful. If, someday, I
> can, I will help you.
>
> Thanks for your time and recommendations. My apologies to anyone who
> has been insulted by my question.
> 73,
>
> Karl - W4UTI
>
>
>
Not a case of being insulted Karl.
Most mike inserts die due to being bombarded with saliva and if you
smoke a coating of nicotine, tar and loads of other nasty chemicals. So
if that insert was not new and the HF response was poor and sounded
horrible it s time to chuck it in the bin. Or leave it for a few days
soaking in alcohol and see what colour the alcohol changes to, don't
waste good whiskey, user IPA or similar.
Then chuck it away.

--
Best wishes

Richard Bown

##
Registered Linux User 36561
OS: Mandriva 2009.1 Spring Powerpack on an AMD Dual Athlon 64 +4400: 8
GB RAM DDR2 Ham Call: G8JVM , QRA IO82SP, Interests Microwave 1.3
GHz,2.3 GHz & 5.7GHz & 10 GHz

###

21406. Re: Main Dial Calibration

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-11 19:07:14 UTC
From: sootydave
Topic: 21402 Message: 21406

--- In TS-520_820_530_830@yahoogroups.com, "scott10k" <scottandalene@...> wrote:
>
> On my TS-520S, my main dial is out of calibration with the 25 KHz marker and with WWV. How do I get it into calibration? Is that a VFO adjustment? Any advice would be appreciated.
> 73s, Scott, N6CIC
>

Hi Scott,
Simple but not very obviouse, simply set the outer dial to the 25hz mark on the band set the VFO switch to the 25hz mark on the left, and while holding the outer dial turn the vfo knob the inner dial will move while you hold the outer dial still. the manual explains it much better than i do, HIHI. but it realy is a simple calibration.
hope this is at least a little helpfull
Dave
kg4uxr

21407. Re: [TS-520_820_530_830] Re: Microphone for TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-11 19:37:19 UTC
From: Gordon JC Pearce
Topic: 21376 Message: 21407

On Thu, 2009-06-11 at 18:00 +0000, redsboy@... wrote:
> fellow hams. I apologize. By way of general information, I did try the
> EV 638 FIRST! And when I received reports of mushy and otherwise bad
> audio, I tried adjusting things like the mike gain, drive, checked the
> ALC, and even my headphones, but to no avail.

Okay, either the mike capsule is stuffed or the transformer has for some peculiar reason been removed. I've seen that before, and it led me a dance... Suffice to say that the end of a story that was longer than it should have been was "Mmm, wonder what happens if I plug it into a balanced input on the desk then?"

Gordon

21408. Re: [TS-520_820_530_830] Main Dial Calibration

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-11 19:39:07 UTC
From: Gordon JC Pearce
Topic: 21402 Message: 21408

On Thu, 2009-06-11 at 17:55 +0000, scott10k wrote:
> On my TS-520S, my main dial is out of calibration with the 25 KHz
> marker and with WWV. How do I get it into calibration? Is that a VFO
> adjustment? Any advice would be appreciated.
> 73s, Scott, N6CIC

The outer scale slips round on the knob. You need to line it up for
pretty much every 25kHz "step", or at least I do on mine. Even at that,
my calibrator doesn't seem particularly "true" so I may need to break
out the frequency counter and Anthorn-disciplined reference...

Gordon MM3YEQ

21409. Re: TS-820S & SM-220

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-11 20:57:00 UTC
From: w5rkl
Topic: 21383 Message: 21409

Gordon,

Typically the 820 did not have an IF output.

My 820S does not have an IF output. The 2 RCA sockets on the rear of my 820, below the 8 pin octal socket, are "phone patch" connections. It appears your 820 is different, possibly a factory change or a previous owner mod, if you are not the original owner, was made to bring the "RIF" connection to the rear. It would be easy to determine which one by looking at the wiring. A factory modification/change more than likely would have the cabling embedded in the wiring harness, or neatly laced among the wiring harness. An owner modification may not have installed the wiring as neat as the factory would. I could be wrong but most mods I have seen that required wiring changes/additions were no where near as neat as factory wiring is. Anyway, have fun.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, n6wk@... wrote:
>
> Mike,
> I have 2 UNmodified 820's here and they BOTH have the IF out on the back.
> When looking at the rig from the rear, they are in the upper right corner.
> The label is hard stamped into the back panel from the factory.
>
> 73,
> gordon
>
> w5rkl wrote:
> >
> >
> > An unmodified TS-820 does NOT have an IF out connection on the rear
> > panel.
> >
> > The 2 female RCA sockets on the rear panel, between the fan plug and
> > the SG switch, are for connecting the X-Verter "IN" and "OUT"
> > connections. Neither of these sockets provide an IF signal.
> >
> > The 2 female RCA sockets located below the 8 pin octal socket
> > provide transmit and receive "Audio" connections for external
> > "audio" devices such as a phone patch, computer sound card interface,
> > etc. Again, neither of these socket provide an IF signal.
> >
> > The step by step modification instructions are covered in the SM-220
> > operator's manual on page 16.

> >
> > If you do not have the SM-220 and the TS-820 manuals, you can download
> > them free at the following links.
> >
> > SM-220 manual link:
> >
> > http://www.radioamateur.eu/schemi/Kenwood_SM220_user.pdf
> > <http://www.radioamateur.eu/schemi/Kenwood_SM220_user.pdf>
> >
> > TS-820 manual link:
> >
> > http://www.kenwoodusa.com/Support/Amateur_Radio/#_
> > <http://www.kenwoodusa.com/Support/Amateur_Radio/#_>
> >
> > Simply scroll down to the manual portion, click the drop down
> > menu, and select TS-820S. When the download link appears, click the
> > link and download the manual.
> >
> > Mike W5RKL
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, carboyhat@ wrote:
> > >
> > > If you connect the IF OUT on the back of your TS-820S to the V. INPUT on
> > > the lower left
> > > front panel of the SM-220, you should get a pattern on the scope screen
> > > when receiving. If the
> > > BS-8 pan adaptor is installed inside the scope, the band scope function
> > > will function also.
> > >
> > > 73 de Bob, AA4AI
> > > --
> > >
> > > >
> > > > ----- Original Message -----
> > > > From: "sceneryguru" <k3ssb@>
> > > > To: <TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>>
> > > > Sent: Wednesday, June 10, 2009 4:05 PM
> > > > Subject: [TS-520_820_530_830] TS-820S & SM-220
> > > >
> > > >
> > > > > Good Afternoon:
> > > > >
> > > > > My TS-820S has an IF output on its back panel. Can I run the
> > > > output
> > > > > directly into the SM-220 IF input?
> > > > >
> > > > > I understand that the TS-830S series could... but was lead to
> > > > believe that

> > > > > the TS-820S couldn't without a modification from the BS-8 out.
> > > > >
> > > > > PS: I'm a new member of the group... glad I found you folks.
> > > > >
> > > > > TNX & 73
> > > > >
> > > > > Tom G, Sr
> > > > > K3SSB
> > > > >
> > > _____
> >
>

21410. Re: [TS-520_820_530_830] Re: TS-820S & SM-220

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-11 21:04:27 UTC
From: n6wk@n6wk.com
Topic: 21383 Message: 21410

Hi Mike,
This is strange because even the service manual tells us to do
step 2-6 (Carrier Balance adjustment) measurement from the IF out
terminal on the rear connector. Page (47)
I know the 520 does NOT have the IF out, but every 820S I have worked on
does .
You sure you are talking about an 820S?
I shouldn't doubt you because you know as much or more about these
radios as anyone I know.

73,
Gordon
n6wk

w5rkl wrote:
>
>
> Gordon,
>
> Typically the 820 did not have an IF output.
>
> My 820S does not have an IF output. The 2 RCA sockets on the rear of
> my 820, below the 8 pin octal socket, are "phone patch" connections.
> It appears your 820 is different, possibly a factory change or a
> previous owner mod, if you are not the original owner, was made
> to bring the "RIF" connection to the rear. It would be easy to
> determine which one by looking at the wiring. A factory
> modification/change more than likely would have the cabling embedded
> in the wiring harness, or neatly laced among the wiring harness. An
> owner modification may not have installed the wiring as neat as the
> factory would. I could be wrong but most mods I have seen that
> required wiring changes/additions were no where near as neat as
> factory wiring is. Anyway, have fun.
>
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, n6wk@... wrote:
> >
> > Mike,
> > I have 2 UNmodified 820's here and they BOTH have the IF out on the
> back.
> > When looking at the rig from the rear, they are in the upper right
> corner.
> > The label is hard stamped into the back panel from the factory.

> >
> > 73,
> > gordon
> >
> > w5rkl wrote:
> > >
> > >
> > > An unmodified TS-820 does NOT have an IF out connection on the rear
> > > panel.
> > >
> > > The 2 female RCA sockets on the rear panel, between the fan plug and
> > > the SG switch, are for connecting the X-Verter "IN" and "OUT"
> > > connections. Neither of these sockets provide an IF signal.
> > >
> > > The 2 female RCA sockets located below the 8 pin octal socket
> > > provide transmit and receive "Audio" connections for external
> > > "audio" devices such as a phone patch, computer sound card interface,
> > > etc. Again, neither of these socket provide an IF signal.
> > >
> > > The step by step modification instructions are covered in the SM-220
> > > operator's manual on page 16.
> > >
> > > If you do not have the SM-220 and the TS-820 manuals, you can download
> > > them free at the following links.
> > >
> > > SM-220 manual link:
> > >
> > > http://www.radioamateur.eu/schemi/Kenwood_SM220_user.pdf
> <http://www.radioamateur.eu/schemi/Kenwood_SM220_user.pdf>
> > > <http://www.radioamateur.eu/schemi/Kenwood_SM220_user.pdf
> <http://www.radioamateur.eu/schemi/Kenwood_SM220_user.pdf>>
> > >
> > > TS-820 manual link:
> > >
> > > http://www.kenwoodusa.com/Support/Amateur_Radio/#_
> <http://www.kenwoodusa.com/Support/Amateur_Radio/#_>
> > > <http://www.kenwoodusa.com/Support/Amateur_Radio/#_
> <http://www.kenwoodusa.com/Support/Amateur_Radio/#_>>
> > >
> > > Simply scroll down to the manual portion, click the drop down
> > > menu, and select TS-820S. When the download link appears, click the
> > > link and download the manual.
> > >
> > > Mike W5RKL
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > > <mailto:TS-520_820_530_830%40yahoogroups.com>, carboyhat@ wrote:
> > > >
> > > > If you connect the IF OUT on the back of your TS-820S to the V.

> INPUT on
> > > > the lower left
> > > > front panel of the SM-220, you should get a pattern on the scope
> screen
> > > > when receiving. If the
> > > > BS-8 pan adaptor is installed inside the scope, the band scope
> function
> > > > will function also.
> > > >
> > > > 73 de Bob, AA4AI
> > > > --
> > > >
> > > > >
> > > > > ----- Original Message -----
> > > > > From: "sceneryguru" <k3ssb@>
> > > > > To: <TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > > <mailto:TS-520_820_530_830%40yahoogroups.com>>
> > > > > Sent: Wednesday, June 10, 2009 4:05 PM
> > > > > Subject: [TS-520_820_530_830] TS-820S & SM-220
> > > > >
> > > > > >
> > > > > > Good Afternoon:
> > > > > >
> > > > > > My TS-820S has an IF output on its back panel. Can I run the
> > > > > output
> > > > > > directly into the SM-220 IF input?
> > > > > >
> > > > > > I understand that the TS-830S series could... but was lead to
> > > > > believe that
> > > > > > the TS-820S couldn't without a modification from the BS-8 out.
> > > > > >
> > > > > > PS: I'm a new member of the group... glad I found you folks.
> > > > > >
> > > > > > TNX & 73
> > > > > >
> > > > > > Tom G, Sr
> > > > > > K3SSB
> > > > > >
> > > > > ____
> > > >
> > >
> >
>

21411. RE: [TS-520_820_530_830] Re: Microphone for TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-11 21:41:42 UTC
From: Louis A. Bellock
Topic: 21376 Message: 21411

Hello Karl,

Not owning a 638 or familiar with it, I checked the datasheet for the EV 638 microphone and it is a dual-impedance mic. The sheet says exactly under Impedance, "150 ohms or HI-Z" (specify on order)". This leads me to believe that the microphone can be low or high impedance, but there is no provision for toggling the impedance in the mic itself. They must have factory-set the impedance. Therefore, you may have the 150 ohm model, when you need the HI-Z model. Maybe someone out there familiar with these can verify this.

On all of my 520s and 820s I have always used Astatic D-104s, Shure 444s or Kenwood HI-Z hand mics with good results.

Just my $0.02 on this issue.

As far as I know; there are no dumb questions, only dumb answers.

Best regards and 73, Lou Bellock N2JPR

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of richard
Sent: Thursday, June 11, 2009 3:01 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: Microphone for TS-820S

On Thu, 11 Jun 2009 18:00:45 -0000
"redsboy@bellsouth. <mailto:redsboy%40bellsouth.net> net"
<redsboy@bellsouth. <mailto:redsboy%40bellsouth.net> net> wrote:

> Hey, folks, I certainly didn't mean to start any heated discussion
> about microphones or even my intelligence. (The latter has ALWAYS
> been in question.) But I seem to have peeked the ire of at least one
> of my fellow hams. I apologize. By way of general information, I did
> try the EV 638 FIRST! And when I received reports of mushy and
> otherwise bad audio, I tried adjusting things like the mike gain,
> drive, checked the ALC, and even my headphones, but to no avail. So,
> when all else failed, I read the manual. It just seemed to me that
> Kenwood had been making pretty good ham radios for a while and
> probably knew what they were doing when they spent the time and ink
> to go into detail (with warnings) about the mike sensitivity
> requirements. Frankly, I'd never bothered with mike sensitivity
> before, but they made the radio, so I decided to see if anyone else
> could offer advice. You have all been most helpful. If, someday, I
> can, I will help you.
>

> Thanks for your time and recommendations. My apologies to anyone who
> has been insulted by my question.
> 73,
>
> Karl - W4UTI
>
>
>
Not a case of being insulted Karl.
Most mike inserts die due to being bombarded with saliva and if you
smoke a coating of nicotine, tar and loads of other nasty chemicals. So
if that insert was not new and the HF response was poor and sounded
horrible it s time to chuck it in the bin. Or leave it for a few days
soaking in alcohol and see what colour the alcohol changes to, don't
waste good whiskey, user IPA or similar.
Then chuck it away.

--
Best wishes

Richard Bown

##
########
Registered Linux User 36561
OS: Mandriva 2009.1 Spring Powerpack on an AMD Dual Athlon 64 +4400: 8
GB RAM DDR2 Ham Call: G8JVM , QRA IO82SP, Interests Microwave 1.3
GHz,2.3 GHz & 5.7GHz & 10 GHz
##
########

E-mail message checked by Spyware Doctor (6.0.0.386)
Database version: 5.12590
http://www.pctools.com/spyware-doctor-antivirus/
<http://www.pctools.com/en/spyware-doctor-antivirus/>

E-mail message checked by Spyware Doctor (6.0.0.386)
Database version: 5.12590
http://www.pctools.com/en/spyware-doctor-antivirus/

[Non-text portions of this message have been removed]

21412. KW TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-12 00:47:16 UTC
From: Joe Cano
Topic: 21412 Message: 21412

Hello group
i pick up a TS-520 the price was right you know what smoking can do to the inside on a rig can i use DE-OX-ID to clean the contacts? thanks 73 Joe ke7nec

[Non-text portions of this message have been removed]

21413. No ALC when using the drive control

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-12 04:37:35 UTC
From: dellthorp
Topic: 21413 Message: 21413

I have been looking in the archives but I can't seem to nail this one ,I want to tune my ts 520s but I am not getting an ALC reading on drive ,the driver tube has been replaced ,because I noticed the 10 meter band was hard to get an ALC max before all this started 18 months ago been idle since ,the finals are 10 years old but never been flogged ,nothing is burnt black or otherwise everything is pristine ,maybe I have dry caps or maybe someone can lead me to the ALC not working archives

baz ,

21414. Re: TS-820S & SM-220

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-12 10:47:02 UTC
From: w5rkl
Topic: 21383 Message: 21414

Good morning Gordon and the group,

My mistake, I was wrong. The 820 does have an IF output RCA
socket on the upper right corner of the rear panel. I completely
forgot about that socket.

The 820's IF frequency, at that socket, is 8.83Mhz. I apologize for
my mistake.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, n6wk@... wrote:
>
> Hi Mike,
> This is strange because even the service manual tells us to do
> step 2-6 (Carrier Balance adjustment) measurement from the IF out
> terminal on the rear connector. Page (47)
> I know the 520 does NOT have the IF out, but every 820S I have worked on
> does .
> You sure you are talking about an 820S?
> I shouldn't doubt you because you know as much or more about these
> radios as anyone I know.
>
> 73,
> Gordon
> n6wk
>
>
> w5rkl wrote:
> >
> >
> > Gordon,
> >
> > Typically the 820 did not have an IF output.
> >
> > My 820S does not have an IF output. The 2 RCA sockets on the rear of
> > my 820, below the 8 pin octal socket, are "phone patch" connections.
> > It appears your 820 is different, possibly a factory change or a
> > previous owner mod, if you are not the original owner, was made
> > to bring the "RIF" connection to the rear. It would be easy to
> > determine which one by looking at the wiring. A factory
> > modification/change more than likely would have the cabling embedded
> > in the wiring harness, or neatly laced among the wiring harness. An
> > owner modification may not have installed the wiring as neat as the
> > factory would. I could be wrong but most mods I have seen that
> > required wiring changes/additions were no where near as neat as

> > factory wiring is. Anyway, have fun.
> >
> > Mike W5RKL
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, n6wk@ wrote:
> > >
> > > Mike,
> > > I have 2 UNmodified 820's here and they BOTH have the IF out on the
> > back.
> > > When looking at the rig from the rear, they are in the upper right
> > corner.
> > > The label is hard stamped into the back panel from the factory.
> > >
> > > 73,
> > > gordon
> > >
> > > w5rkl wrote:
> > > >
> > > >
> > > > An unmodified TS-820 does NOT have an IF out connection on the rear
> > > > panel.
> > > >
> > > > The 2 female RCA sockets on the rear panel, between the fan plug and
> > > > the SG switch, are for connecting the X-Verter "IN" and "OUT"
> > > > connections. Neither of these sockets provide an IF signal.
> > > >
> > > > The 2 female RCA sockets located below the 8 pin octal socket
> > > > provide transmit and receive "Audio" connections for external
> > > > "audio" devices such as a phone patch, computer sound card interface,
> > > > etc. Again, neither of these socket provide an IF signal.
> > > >
> > > > The step by step modification instructions are covered in the SM-220
> > > > operator's manual on page 16.
> > > >
> > > > If you do not have the SM-220 and the TS-820 manuals, you can download
> > > > them free at the following links.
> > > >
> > > > SM-220 manual link:
> > > >
> > > > http://www.radioamateur.eu/schemi/Kenwood_SM220_user.pdf
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> > > > <http://www.radioamateur.eu/schemi/Kenwood_SM220_user.pdf
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> > > >
> > > > TS-820 manual link:
> > > >
> > > > http://www.kenwoodusa.com/Support/Amateur_Radio/#_
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> > > > <http://www.kenwoodusa.com/Support/Amateur_Radio/#_

> > <http://www.kenwoodusa.com/Support/Amateur_Radio/#_>>
> > > >
> > > > Simply scroll down to the manual portion, click the drop down
> > > > menu, and select TS-820S. When the download link appears, click the
> > > > link and download the manual.
> > > >
> > > > Mike W5RKL
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>
> > > > <mailto:TS-520_820_530_830%40yahoogroups.com>, carboyhat@ wrote:
> > > > >
> > > > > If you connect the IF OUT on the back of your TS-820S to the V.
> > INPUT on
> > > > > the lower left
> > > > > front panel of the SM-220, you should get a pattern on the scope
> > screen
> > > > > when receiving. If the
> > > > > BS-8 pan adaptor is installed inside the scope, the band scope
> > function
> > > > > will function also.
> > > > > >
> > > > > 73 de Bob, AA4AI
> > > > > ----------
> > > > >
> > > > > > ----- Original Message -----
> > > > > > From: "sceneryguru" <k3ssb@>
> > > > > > To: <TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>
> > > > <mailto:TS-520_820_530_830%40yahoogroups.com>>
> > > > > > Sent: Wednesday, June 10, 2009 4:05 PM
> > > > > > Subject: [TS-520_820_530_830] TS-820S & SM-220
> > > > > >
> > > > > >
> > > > > > > Good Afternoon:
> > > > > >
> > > > > > My TS-820S has an IF output on its back panel. Can I run the
> > > > > > output
> > > > > > directly into the SM-220 IF input?
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> > > > > > I understand that the TS-830S series could... but was lead to
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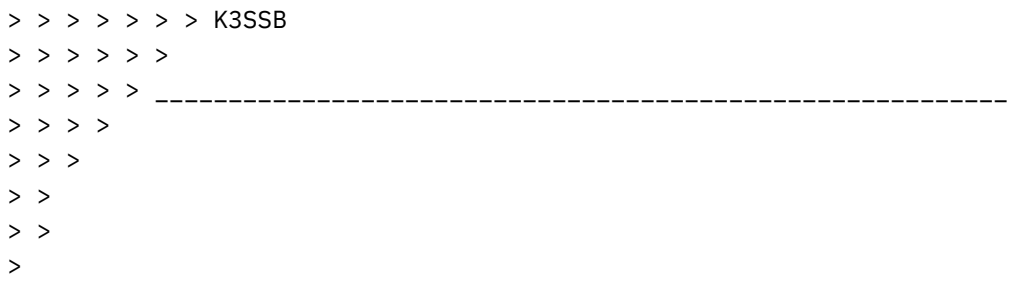
> > > > > >
> > > > > > Tom G, Sr


K3SSB

21415. RE: [TS-520_820_530_830] Re: Microphone for TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-12 10:52:53 UTC
From: Gordon JC Pearce
Topic: 21376 Message: 21415

On Thu, 2009-06-11 at 17:41 -0400, Louis A. Bellock wrote:
> Hello Karl,
> Not owning a 638 or familiar with it, I checked the datasheet for the EV 638
> microphone and it is a dual-impedance mic. The sheet says exactly under
> Impedance, "150 ohms or HI-Z" (specify on order)". This leads me to believe
> that the microphone can be low or high impedance, but there is no provision
> for toggling the impedance in the mic itself. They must have factory-set the
> impedance. Therefore, you may have the 150 ohm model, when you need the HI-Z
> model. Maybe someone out there familiar with these can verify this.

Possibly on low-impedance versions they left the transformer out. In
which case, a little preamp will work wonders. A quick Gooooooooogle
suggests this:

http://www.zen22142.zen.co.uk/Circuits/Audio/dyn_mic/dyn_mic.htm

I haven't built this specific circuit, but it "looks right" (and it's
broadly similar to one I came up with to solve much the same problem
with instrument pickups). It's nicely unfussy and doesn't use any
hard-to-find bits.

Gordon MM3YEQ

21416. Re: TS-820S & SM-220

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-12 12:01:52 UTC
From: sceneryguru
Topic: 21383 Message: 21416

Good Afternoon Group:

Mike, Gordon; looks like you beat me to it... yes, my TS-820S does indeed have the IF output on its back panel. Thanks to the groups responses, and a little detective work, it appears that the proper procedure to follow is:

From the SM-220 manual: "RECEIVE SIGNAL OBSERVATION" for receive signal observation, connect the transceiver IF #2 OUTPUT terminal to the SM-220, V. INPUT terminal. It goes on to talk about the settings, etc. See SM-220 manual page#10.

Thanks again to those kind enough to reply.

73

Tom G, Sr.
K3SSB

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> An unmodified TS-820 does NOT have an IF out connection on the rear
> panel.
>
> The 2 female RCA sockets on the rear panel, between the fan plug and
> the SG switch, are for connecting the X-Verter "IN" and "OUT"
> connections. Neither of these sockets provide an IF signal.
>
> The 2 female RCA sockets located below the 8 pin octal socket
> provide transmit and receive "Audio" connections for external
> "audio" devices such as a phone patch, computer sound card interface,
> etc. Again, neither of these socket provide an IF signal.
>
> The step by step modification instructions are covered in the SM-220
> operator's manual on page 16.
>
> If you do not have the SM-220 and the TS-820 manuals, you can download
> them free at the following links.
>
>
> SM-220 manual link:
>
> http://www.radioamateur.eu/schemi/Kenwood_SM220_user.pdf
>
>
> TS-820 manual link:
>
> http://www.kenwoodusa.com/Support/Amateur_Radio/#_

>
> Simply scroll down to the manual portion, click the drop down
> menu, and select TS-820S. When the download link appears, click the
> link and download the manual.
>
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com, carboyhat@ wrote:
> >
> > If you connect the IF OUT on the back of your TS-820S to the V. INPUT on
> > the lower left
> > front panel of the SM-220, you should get a pattern on the scope screen
> > when receiving. If the
> > BS-8 pan adaptor is installed inside the scope, the band scope function
> > will function also.
> >
> > 73 de Bob, AA4AI
> > ----------
> >
> > >
> > > ----- Original Message -----
> > > From: "sceneryguru" <k3ssb@>
> > > To: <TS-520_820_530_830@yahoogroups.com>
> > > Sent: Wednesday, June 10, 2009 4:05 PM
> > > Subject: [TS-520_820_530_830] TS-820S & SM-220
> > > >
> > > >
> > > > Good Afternoon:
> > > > >
> > > > My TS-820S has an IF output on its back panel. Can I run the
> > > output
> > > > directly into the SM-220 IF input?
> > > > >
> > > > I understand that the TS-830S series could... but was lead to
> > > believe that
> > > > the TS-820S couldn't without a modification from the BS-8 out.
> > > > >
> > > > PS: I'm a new member of the group... glad I found you folks.
> > > > >
> > > > TNX & 73
> > > > >
> > > > Tom G, Sr
> > > > K3SSB
> > > >
> > _____
> > Click here to find the perfect banking opportunity!
> > http://thirdpartyoffers.juno.com/TGL2141/fc/BLSrjpTMLunWneHkusQWjoT4QVRRTCbgoegvwBzVKZ
IkGwVTBlhjhAFLEFC/
> >
>

21417. TS-830S-Neutralization question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-12 15:15:22 UTC
From: jmcphee@comcast.net
Topic: 21417 Message: 21417

Question-Rotation of the neutralization pot (TC-1) has no effect on the signal strength as displayed on the s-meter of a nearby receiver following the process outlined in the instruction manual. Does this indicate a problem?

Background-I am a new ham who purchased an 830S, through ebay, from an active ham. He indicated that it was not his primary rig, but that he used it successfully immediately prior to my buying it. When I initially tried to tune up the transmitter output (peak the drive, dip the plate), I got erratic meter reading. I checked the tubes, and found that one of the 6146Bs had a rattle, apparently caused by “something” loose inside. Although the transceiver was well packed, I suspected the tube had been damaged in transit. I replaced both 6146Bs with a matched pair of 6146Ws from RFPARTS, and also replaced the driver tube. I then followed the neutralization process as shown on page 28 of the instruction manual:

1. I tuned the xmitter into a dummy load on 28.500.

2. I set the SG switch off.

3. Stand-by switch to send.

4. Adjusted TC1 (at the bottom of the final section).

5. I observed the s-meter on a nearby receiver.

a. Using the rf gain of that receiver I had previously aligned the meter with a reference point.

6. The s-meter indicated a steady signal. It did not move while I rotated TC-1.

Jim McPhee

Placitas, NM

KF5BNG

[Non-text portions of this message have been removed]

21418. Re: TS-820S & SM-220

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-12 16:39:43 UTC
From: w5rkl
Topic: 21383 Message: 21418

Hi Tom and the group,

The connections to the Drain of Q4 in the 520, as shown in the SM-220 manual, taps the 520's 3.3Mhz IF signal at the primary of T6 on the IF UNIT board, just before it is fed to the Balance Detector on the Generator Unit. The same principle is accomplished in the 820 except the tap is accomplished on the 820's IF UNIT since the balance detector in the 820, not like in the 520 series, is located on the 820's IF UNIT.

The 520 series and 820 series have different IF frequencies. The 520 series IF frequency is 3.3Mhz and the 820 series IF frequency is 8.3Mhz. There are differences in how the "IF" frequency is created between the 520 and 820 series transceivers.

One main difference between the two different models, 820 verses 520, is the incoming signal is mixed "once" in the 820 to create the actual "IF" frequency but "twice" in the 520 series to create the actual "IF". See below on how this is accomplished.

520 series:

The amplified incoming signal in the 520 models is mixed on the RF UNIT with the local oscillator producing the 8Mhz "RIF" frequency. The "RIF" frequency, in all 520 models, is "NOT" the 520's actual IF frequency. The 8Mhz signal is fed to the IF UNIT where it is further mixed with the "VFO" signal to produce the actual "3.3Mhz" IF frequency.

820 series:

The amplified incoming signal is mixed with the "VCO" frequency on the RF UNIT producing the 8.3Mhz "RIF" frequency. Unlike the 8Mhz "RIF" frequency in the 520 models, the 8Mhz "RIF" frequency "is" the actual "IF" frequency in the 820 models.

The Kenwood BS-5 Pan Adapter is for the 520 series and the BS-8 Pan Adapter is for the 820 series. Therefore, a BS-5 will not work with an 820 and a BS-8 will not work with a 520.

73
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "sceneryguru" <k3ssb@...> wrote:
>
> Good Afternoon Group:

>
> Mike, Gordon; looks like you beat me to it... yes, my TS-820S does indeed have the IF output on its back panel. Thanks to the groups responses, and a little detective work, it appears that the proper procedure to follow is:
>
> From the SM-220 manual: "RECEIVE SIGNAL OBSERVATION" for receive signal observation, connect the transceiver IF #2 OUTPUT terminal to the SM-220, V. INPUT terminal. It goes on to talk about the settings, etc. See SM-220 manual page#10.
>
> Thanks again to those kind enough to reply.
>
> 73
>
> Tom G, Sr.
> K3SSB
>
>
>
>
> --- In TS-520_820_530_830@...m, "w5rkl" <w5rkl@> wrote:
> >
> > An unmodified TS-820 does NOT have an IF out connection on the rear
> > panel.
> >
> > The 2 female RCA sockets on the rear panel, between the fan plug and
> > the SG switch, are for connecting the X-Verter "IN" and "OUT"
> > connections. Neither of these sockets provide an IF signal.
> >
> > The 2 female RCA sockets located below the 8 pin octal socket
> > provide transmit and receive "Audio" connections for external
> > "audio" devices such as a phone patch, computer sound card interface,
> > etc. Again, neither of these socket provide an IF signal.
> >
> > The step by step modification instructions are covered in the SM-220
> > operator's manual on page 16.
> >
> > If you do not have the SM-220 and the TS-820 manuals, you can download
> > them free at the following links.
> >
> >
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> >
> > http://www.radioamateur.eu/schemi/Kenwood_SM220_user.pdf
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> > TS-820 manual link:
> >
> > http://www.kenwoodusa.com/Support/Amateur_Radio/#_
> >
> > Simply scroll down to the manual portion, click the drop down

> > menu, and select TS-820S. When the download link appears, click the
> > link and download the manual.
> >
> > Mike W5RKL
> >
> > --- In TS-520_820_530_830@yahoogroups.com, carboyhat@ wrote:
> > >
> > > If you connect the IF OUT on the back of your TS-820S to the V. INPUT on
> > > the lower left
> > > front panel of the SM-220, you should get a pattern on the scope screen
> > > when receiving. If the
> > > BS-8 pan adaptor is installed inside the scope, the band scope function
> > > will function also.
> > >
> > > 73 de Bob, AA4AI
> > > --
> > >
> > > >
> > > > ----- Original Message -----
> > > > From: "sceneryguru" <k3ssb@>
> > > > To: <TS-520_820_530_830@yahoogroups.com>
> > > > Sent: Wednesday, June 10, 2009 4:05 PM
> > > > Subject: [TS-520_820_530_830] TS-820S & SM-220
> > > >
> > > >
> > > > > Good Afternoon:
> > > > >
> > > > > My TS-820S has an IF output on its back panel. Can I run the
> > > > output
> > > > > directly into the SM-220 IF input?
> > > > >
> > > > > I understand that the TS-830S series could... but was lead to
> > > > believe that
> > > > > the TS-820S couldn't without a modification from the BS-8 out.
> > > > >
> > > > > PS: I'm a new member of the group... glad I found you folks.
> > > > >
> > > > > TNX & 73
> > > > >
> > > > > Tom G, Sr
> > > > > K3SSB
> > > >
> > > > _____
> > > Click here to find the perfect banking opportunity!
> > > http://thirdpartyoffers.juno.com/TGL2141/fc/BLSrjpTMLunWneHkusQWjoT4QVRRTCbgoegvwBzV
KZIkGwVTBlhjhAFLEFC/
> > >
> >
>

21419. Re: TS-830S-Neutralization question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-12 16:52:41 UTC
From: w5rkl
Topic: 21417 Message: 21419

Hello Jim,

Neutralization is not about reducing the operating frequency signal strength but rather reducing "spurious" signals that are outside of the operating frequency. Using a separate receiver as an indicator when neutralizing a final amplifier is not the route to take and you will always see the same S meter reading on the separate receiver when adjusting the neutralizing capacitor.

Your initial set up procedures are correct. However, once you have tuned the radio up into a dummy load to full output, set the "SG" switch to "OFF", you then connect an RF Probe that is connected to a VTVM or a scope probe connected to a scope to the rear SO-239 center pin and ground to the chassis. At that point you key the radio and adjust the neutralizing capacitor for a "minimum" reading on the VTVM OR scope display. You do NOT re-adjust the DRIVE, VFO, PLATE, and LOAD controls while neutralizing final amplifier, ONLY the neutralizing capacitor inside the final amplifier cage with a well insulated screw driver.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, jmcphee@... wrote:
>
>
>
> Question-Rotation of the neutralization pot (TC-1) has no effect on the signal strength as displayed on the s-meter of a nearby receiver following the process outlined in the instruction manual. Does this indicate a problem?
>
> Background-I am a new ham who purchased an 830S, through ebay, from an active ham. He indicated that it was not his primary rig, but that he used it successfully immediately prior to my buying it. When I initially tried to tune up the transmitter output (peak the drive, dip the plate), I got erratic meter reading. I checked the tubes, and found that one of the 6146Bs had a rattle, apparently caused by â□□somethingâ□□ loose inside. Although the transceiver was well packed, I suspected the tube had been damaged in transit. I replaced both 6146Bs with a matched pair of 6146Ws from RFPARTS, and also replaced the driver tube. I then followed the neutralization process as shown on page 28 of the instruction manual:
>
> 1. I tuned the xmitter into a dummy load on 28.500.
>
> 2. I set the SG switch off.
>
> 3. Stand-by switch to send.
>
> 4. Adjusted TC1 (at the bottom of the final section).
>

> 5. I observed the s-meter on a nearby receiver.
>
> a. Using the rf gain of that receiver I had previously aligned the meter with a reference point.
>
> 6. The s-meter indicated a steady signal. It did not move while I rotated TC-1.
>
>
>
>
> Jim McPhee
>
> Placitas, NM
>
> KF5BNG
>
>
>
>
> [Non-text portions of this message have been removed]
>

21420. TS-520s for PSK31?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-12 16:54:51 UTC
From: James French
Topic: 21412 Message: 21420

Wondering if anyone has used a TS-520s for psk at all?

James W8ISS

21421. Re: [TS-520_820_530_830] TS-520s for PSK31?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-12 17:39:04 UTC
From: Don Thomas
Topic: 21412 Message: 21421

I've used a Heathkit HW-101 on PSK31. As long as the frequency is stable, it will work. Just run the output power bout 20 watts so you don't stress the finals with the high duty cycle.

Don T.

--- On Fri, 6/12/09, James French <w8iss@...> wrote:

From: James French <w8iss@wideopenwest.com>
Subject: [TS-520_820_530_830] TS-520s for PSK31?
To: TS-520_820_530_830@yahoogroups.com
Date: Friday, June 12, 2009, 11:54 AM

Wondering if anyone has used a TS-520s for psk at all?

James W8ISS

[Non-text portions of this message have been removed]

21422. Re: [TS-520_820_530_830] TS-520s for PSK31?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-12 17:39:36 UTC
From: Chris and Alex
Topic: 21412 Message: 21422

Hi James,
The 520 is excellent for BPSK31. Use the phone patch sockets at the rear of the set. I get away with using an old IBM Thinkpad and no interface.

Tune up for max power as normal then use the mike gain and pc audio out to keep the plate current at around 125 - 150 mA. on transmit. Don't go higher than this as it's almost continuous duty for the old set and it won't like it. I tune up and then initially transmit into a dummy load until I'm sure everythings ok before going on the air. I've had reports of IMD -31dB which is about as good as it gets.

Chris SV0XBQ/9

2009/6/12 James French <w8iss@...>

>
>
> Wondering if anyone has used a TS-520s for psk at all?
>
> James W8ISS
>
>
>

[Non-text portions of this message have been removed]

21423. Re: [TS-520_820_530_830] TS-520s for PSK31?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-12 17:48:42 UTC
From: Gordon JC Pearce
Topic: 21412 Message: 21423

On Fri, 2009-06-12 at 12:54 -0400, James French wrote:
> Wondering if anyone has used a TS-520s for psk at all?

I've used a TS-520 on PSK31, 63, 125 and 250 with no problems at all. Just keep the power down, as others have said. You shouldn't need to run much power anyway. Since the PA is barely ticking over nothing gets hot or stressed.

I do find that the VFO drifts a lot in the first five to ten minutes, but that's okay because you just don't transmit until it settles down. You may find that even at that it jumps a few hundred Hz after the first over, but then behaves itself. Mine only does that when the room is quite cold.

Gordon

21424. Re: [TS-520_820_530_830] Re: TS-820S & SM-220

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-12 19:13:30 UTC
From: Dave ve3wej
Topic: 21383 Message: 21424

If I remember the sm220 with the bs-8 will only show the other station. It will NOT pan ... on the 820s see the manual (pg 14 i think)

----- Original Message -----
From: "w5rkl" <w5rkl@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, June 12, 2009 12:39 PM
Subject: [TS-520_820_530_830] Re: TS-820S & SM-220

> Hi Tom and the group,
>
> The connections to the Drain of Q4 in the 520, as shown in the SM-220
> manual, taps the 520's 3.3Mhz IF signal at the primary of T6 on the
> IF UNIT board, just before it is fed to the Balance Detector on the
> Generator Unit. The same principle is accomplished in the 820 except
> the tap is accomplished on the 820's IF UNIT since the balance
> detector in the 820, not like in the 520 series, is located on the
> 820's IF UNIT.
>
> The 520 series and 820 series have different IF frequencies. The
> 520 series IF frequency is 3.3Mhz and the 820 series IF frequency
> is 8.3Mhz. There are differences in how the "IF" frequency is
> created between the 520 and 820 series transceivers.
>
> One main difference between the two different models, 820 verses
> 520, is the incoming signal is mixed "once" in the 820 to create the
> actual "IF" frequency but "twice" in the 520 series to create the
> actual "IF". See below on how this is accomplished.
>
> 520 series:
>
> The amplified incoming signal in the 520 models is mixed on the RF
> UNIT with the local oscillator producing the 8Mhz "RIF" frequency.
> The "RIF" frequency, in all 520 models, is "NOT" the 520's actual IF
> frequency. The 8Mhz signal is fed to the IF UNIT where it is
> further mixed with the "VFO" signal to produce the actual "3.3Mhz" IF
> frequency.
>
> 820 series:
>
> The amplified incoming signal is mixed with the "VCO" frequency on
> the RF UNIT producing the 8.3Mhz "RIF" frequency. Unlike the 8Mhz
> "RIF" frequency in the 520 models, the 8Mhz "RIF" frequency "is" the
> actual "IF" frequency in the 820 models.
>

> The Kenwood BS-5 Pan Adapter is for the 520 series and the BS-8
> Pan Adapter is for the 820 series. Therefore, a BS-5 will not work
> with an 820 and a BS-8 will not work with a 520.
>
> 73
> Mike
> W5RKL
>
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "sceneryguru" <k3ssb@...>
> wrote:
>>
>> Good Afternoon Group:
>>
>> Mike, Gordon; looks like you beat me to it... yes, my TS-820S does indeed
>> have the IF output on its back panel. Thanks to the groups responses, and
>> a little detective work, it appears that the proper procedure to follow
>> is:
>>
>> From the SM-220 manual: "RECEIVE SIGNAL OBSERVATION" for receive signal
>> observation, connect the transceiver IF #2 OUTPUT terminal to the SM-220,
>> V. INPUT terminal. It goes on to talk about the settings, etc. See SM-220
>> manual page#10.
>>
>> Thanks again to those kind enough to reply.
>>
>> 73
>>
>> Tom G, Sr.
>> K3SSB
>>
>>
>>
>>
>> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
>> >
>> > An unmodified TS-820 does NOT have an IF out connection on the rear
>> > panel.
>> >
>> > The 2 female RCA sockets on the rear panel, between the fan plug and
>> > the SG switch, are for connecting the X-Verter "IN" and "OUT"
>> > connections. Neither of these sockets provide an IF signal.
>> >
>> > The 2 female RCA sockets located below the 8 pin octal socket
>> > provide transmit and receive "Audio" connections for external
>> > "audio" devices such as a phone patch, computer sound card interface,
>> > etc. Again, neither of these socket provide an IF signal.

>> >
>> > The step by step modification instructions are covered in the SM-220
>> > operator's manual on page 16.
>> >
>> > If you do not have the SM-220 and the TS-820 manuals, you can download
>> > them free at the following links.
>> >
>> >
>> > SM-220 manual link:
>> >
>> > http://www.radioamateur.eu/schemi/Kenwood_SM220_user.pdf
>> >
>> >
>> > TS-820 manual link:
>> >
>> > http://www.kenwoodusa.com/Support/Amateur_Radio/#_
>> >
>> > Simply scroll down to the manual portion, click the drop down
>> > menu, and select TS-820S. When the download link appears, click the
>> > link and download the manual.
>> >
>> > Mike W5RKL
>> >
>> > --- In TS-520_820_530_830@yahoogroups.com, carboyhat@ wrote:
>> > >
>> > > If you connect the IF OUT on the back of your TS-820S to the V. INPUT
>> > > on
>> > > the lower left
>> > > front panel of the SM-220, you should get a pattern on the scope
>> > > screen
>> > > when receiving. If the
>> > > BS-8 pan adaptor is installed inside the scope, the band scope
>> > > function
>> > > will function also.
>> > >
>> > > 73 de Bob, AA4AI
>> > > --
>> > >
>> > > >
>> > > > ----- Original Message -----
>> > > > From: "sceneryguru" <k3ssb@>
>> > > > To: <TS-520_820_530_830@yahoogroups.com>
>> > > > Sent: Wednesday, June 10, 2009 4:05 PM
>> > > > Subject: [TS-520_820_530_830] TS-820S & SM-220
>> > > > >
>> > > > >
>> > > > > Good Afternoon:
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>> > > > > PS: I'm a new member of the group... glad I found you folks.
>> > > > >
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>> > > Click here to find the perfect banking opportunity!
>> > > http://thirdpartyoffers.juno.com/TGL2141/fc/BLSrjpTMLunWneHkusQWjoT4QVRRTCbgoegvwBz
VKZIkGwVTBlhjhAFLEFC/
>> > >
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> ---
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> Yahoo! Groups Links
>
>
>
>

21425. Re: TS-820S & SM-220

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-12 21:59:52 UTC
From: w5rkl
Topic: 21383 Message: 21425

Hello everyone,

The BS-5 and BS-8, when connected to the 520 or 820 series IF connections, do the same thing, display the signals within +/- 20Khz or +/- 100Khz band spread of the operating frequency. The operating frequency is the "center" of the 220's display. This is assuming the BS-5 or BS-8 have been aligned properly as stated in the SM-220 manual.

The 530 or 830 can be connected to the SM-220 adapter but only with the BS-8 since both the 530 and 830 have 8Mhz IF frequencies. Actually, any transceiver that has an IF frequency that is the same as the BS-5 or BS-8 can be connected to the SM-220 adapters. The radio doesn't have to be a Kenwood hybrid! The radio simply must have an IF frequency that is acceptable by either the BS-5 or BS-5 adapter to the SM-220. There is no requirement for any adapters for monitoring the transmitter signals, simply connect the transmitter and/or linear amplifier output to the rear SO-239 connections as shown in the SM-220 manual. Just because the SM-220 is manufactured by Kenwood does NOT mean you can only connect Kenwood transmitters or transceivers to it!

The IF frequencies of all 4 of the hybrids, and other ham gear as well, remains fairly constant but the incoming signal frequencies change.

If the VFO is tuned to 7.100 and a station is transmitting a carrier at 7.100, the carrier will be a vertical spike in the center of the display. Tuning the VFO either side of 7.100, the carrier spike will no longer be at the center of the display but will move left or right of center, depending on which direction the operator tunes the VFO.

The wave forms shown on page 10, figures 5-3 thru 5-6 and 5-7 of the SM-220 manual are the transmitter's wave forms produced by sampling the RF signal from the exciter and/or linear amplifier connected to the rear SO-239 IN/OUT connection. They have nothing to do with nor are they part of the BS-5 or BS-8 adapter signals.

The receive RTTY mark and space tones, as shown on page 12 figure 5-10, are "DC" voltages provided by an external Terminal Unit such as an AEA PK-232. The Terminal Unit "converts" the RTTY Mark and Space tones into DC voltages that, when connected as shown on page 12 figure 5-10, will display the cross hatch pattern. The Terminal Unit is not part of, nor is it included in, either the TS-520, TS-820, TS-530, TS-830, SM-220, BS-5 or BS-8.

The connection between the SM-220 and the 520, 820, 530, or 830, as shown on page 8 figure 5-1, is feeding the SB-220's tone generator, single tone or dual tones, into the microphone connection. The tones are selected from the SM-220's front panel. The SM-220 came equipped with a cable with a 3.5mm mono plug on one end and a 4 pin female microphone plug on the other, allowing the SM-220's tone generator to inject the tones into the microphone socket for testing and viewing of the transmitter's signal on the SM-220 display.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@...> wrote:
>
> If I remember the sm220 with the bs-8 will only show the other station. It
> will NOT pan ... on the 820s see the manual (pg 14 i think)
>
>
> ----- Original Message -----
> From: "w5rkl" <w5rkl@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Friday, June 12, 2009 12:39 PM
> Subject: [TS-520_820_530_830] Re: TS-820S & SM-220
>
>
> > Hi Tom and the group,
> >
> > The connections to the Drain of Q4 in the 520, as shown in the SM-220
> > manual, taps the 520's 3.3Mhz IF signal at the primary of T6 on the
> > IF UNIT board, just before it is fed to the Balance Detector on the
> > Generator Unit. The same principle is accomplished in the 820 except
> > the tap is accomplished on the 820's IF UNIT since the balance
> > detector in the 820, not like in the 520 series, is located on the
> > 820's IF UNIT.
> >
> > The 520 series and 820 series have different IF frequencies. The
> > 520 series IF frequency is 3.3Mhz and the 820 series IF frequency
> > is 8.3Mhz. There are differences in how the "IF" frequency is
> > created between the 520 and 820 series transceivers.
> >
> > One main difference between the two different models, 820 verses
> > 520, is the incoming signal is mixed "once" in the 820 to create the
> > actual "IF" frequency but "twice" in the 520 series to create the
> > actual "IF". See below on how this is accomplished.
> >
> > 520 series:
> >
> > The amplified incoming signal in the 520 models is mixed on the RF
> > UNIT with the local oscillator producing the 8Mhz "RIF" frequency.
> > The "RIF" frequency, in all 520 models, is "NOT" the 520's actual IF
> > frequency. The 8Mhz signal is fed to the IF UNIT where it is
> > further mixed with the "VFO" signal to produce the actual "3.3Mhz" IF
> > frequency.

> >
> > 820 series:
> >
> > The amplified incoming signal is mixed with the "VCO" frequency on
> > the RF UNIT producing the 8.3Mhz "RIF" frequency. Unlike the 8Mhz
> > "RIF" frequency in the 520 models, the 8Mhz "RIF" frequency "is" the
> > actual "IF" frequency in the 820 models.
> >
> > The Kenwood BS-5 Pan Adapter is for the 520 series and the BS-8
> > Pan Adapter is for the 820 series. Therefore, a BS-5 will not work
> > with an 820 and a BS-8 will not work with a 520.
> >
> > 73
> > Mike
> > W5RKL
> >
> >
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "sceneryguru" <k3ssb@>
> > wrote:
> >>
> >> Good Afternoon Group:
> >>
> >> Mike, Gordon; looks like you beat me to it... yes, my TS-820S does indeed
> >> have the IF output on its back panel. Thanks to the groups responses, and
> >> a little detective work, it appears that the proper procedure to follow
> >> is:
> >>
> >> From the SM-220 manual: "RECEIVE SIGNAL OBSERVATION" for receive signal
> >> observation, connect the transceiver IF #2 OUTPUT terminal to the SM-220,
> >> V. INPUT terminal. It goes on to talk about the settings, etc. See SM-220
> >> manual page#10.
> >>
> >> Thanks again to those kind enough to reply.
> >>
> >> 73
> >>
> >> Tom G, Sr.
> >> K3SSB
> >>
> >>
> >>
> >>
> >> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >> >
> >> > An unmodified TS-820 does NOT have an IF out connection on the rear
> >> > panel.
> >> >

> >> > The 2 female RCA sockets on the rear panel, between the fan plug and
> >> > the SG switch, are for connecting the X-Verter "IN" and "OUT"
> >> > connections. Neither of these sockets provide an IF signal.
> >> >
> >> > The 2 female RCA sockets located below the 8 pin octal socket
> >> > provide transmit and receive "Audio" connections for external
> >> > "audio" devices such as a phone patch, computer sound card interface,
> >> > etc. Again, neither of these socket provide an IF signal.
> >> >
> >> > The step by step modification instructions are covered in the SM-220
> >> > operator's manual on page 16.
> >> >
> >> > If you do not have the SM-220 and the TS-820 manuals, you can download
> >> > them free at the following links.
> >> >
> >> >
> >> > SM-220 manual link:
> >> >
> >> > http://www.radioamateur.eu/schemi/Kenwood_SM220_user.pdf
> >> >
> >> >
> >> > TS-820 manual link:
> >> >
> >> > http://www.kenwoodusa.com/Support/Amateur_Radio/#_
> >> >
> >> > Simply scroll down to the manual portion, click the drop down
> >> > menu, and select TS-820S. When the download link appears, click the
> >> > link and download the manual.
> >> >
> >> > Mike W5RKL
> >> >
> >> > --- In TS-520_820_530_830@yahoogroups.com, carboyhat@ wrote:
> >> > >
> >> > > If you connect the IF OUT on the back of your TS-820S to the V. INPUT
> >> > > on
> >> > > the lower left
> >> > > front panel of the SM-220, you should get a pattern on the scope
> >> > > screen
> >> > > when receiving. If the
> >> > > BS-8 pan adaptor is installed inside the scope, the band scope
> >> > > function
> >> > > will function also.
> >> > >
> >> > > 73 de Bob, AA4AI
> >> > > --
> >> > >
> >> > > > ----- Original Message -----
> >> > > > From: "sceneryguru" <k3ssb@>
> >> > > > To: <TS-520_820_530_830@yahoogroups.com>

> >> > > > Sent: Wednesday, June 10, 2009 4:05 PM
> >> > > > Subject: [TS-520_820_530_830] TS-820S & SM-220
> >> > > >
> >> > > >
> >> > > > > Good Afternoon:
> >> > > > > >
> >> > > > > > My TS-820S has an IF output on its back panel. Can I run the
> >> > > > > output
> >> > > > > > directly into the SM-220 IF input?
> >> > > > > >
> >> > > > > > I understand that the TS-830S series could... but was lead to
> >> > > > believe that
> >> > > > > > the TS-820S couldn't without a modification from the BS-8 out.
> >> > > > > >
> >> > > > > > PS: I'm a new member of the group... glad I found you folks.
> >> > > > > >
> >> > > > > > TNX & 73
> >> > > > > >
> >> > > > > > Tom G, Sr
> >> > > > > > K3SSB
> >> > > > > >
> >> > > > > _____
> >> > > > Click here to find the perfect banking opportunity!
> >> > > > http://thirdpartyoffers.juno.com/TGL2141/fc/BLSrjpTMLunWneHkusQWjoT4QVRRTCbgoegvw
BzVKZIkGwVTBlhjhAFLEFC/
> >> > > >
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> > Yahoo! Groups Links
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21426. Re: [TS-520_820_530_830] Re: TS-830S-Neutralization question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-12 17:27:47 UTC
From: jmcphee@comcast.net
Topic: 21417 Message: 21426

Mike,

Thanks for your response. I tried to be very precise in describing the process I followed just so there would be no question about it, but let me try again.

I know what the purpose of the neutralization process is.

I followed the process (or the alternate process, perhaps) as defined in the instruction manual on page 28. I didn't make the process up.

The manual says, after describing how to proceed if you have a "sensitive RF milli-voltmeter", and I quote:

"A receiver tuned to 28.5 MHz works very well for neutralizing if an RF voltmeter is not available. Instead of tuning for a minimum voltage, tune for a minimum S-meter reading."

An RF voltmeter is not available (no scope, either) , so I followed the above process. I did not adjust anything other than the neutralization pot (with a plastic screwdriver) once the transmitter was tuned up and I began the neutralization process. So, the question remains:

Rotation of the neutralization pot (TC-1) has no effect on the signal strength as displayed on the s-meter of a nearby receiver following the process outlined in the instruction manual. Does this indicate a problem?

Jim McPhee
Placitas, NM
KF5BNG

----- Original Message -----
From: "w5rkl" <w5rkl@...>
To: "TS-520 820 530 830" <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, June 12, 2009 10:52:41 AM GMT -07:00 US/Canada Mountain
Subject: [TS-520_820_530_830] Re: TS-830S-Neutralization question

Hello Jim,

Neutralization is not about reducing the operating frequency
signal strength but rather reducing "spurious" signals that are
outside of the operating frequency. Using a separate receiver as an
indicator when neutralizing a final amplifier is not the route to
take and you will always see the same S meter reading on the
separate receiver when adjusting the neutralizing capacitor.

Your initial set up procedures are correct. However, once you
have tuned the radio up into a dummy load to full output, set the
"SG" switch to "OFF", you then connect an RF Probe that is connected
to a VTVM or a scope probe connected to a scope to the rear SO-239

center pin and ground to the chassis. At that point you key the
radio and adjust the neutralizing capacitor for a "minimum" reading
on the VTVM OR scope display. You do NOT re-adjust the DRIVE, VFO,
PLATE, and LOAD controls while neutralizing final amplifier,
ONLY the neutralizing capacitor inside the final amplifier cage
with a well insulated screw driver.

Mike W5RKL

--- In TS-520_820_530_830@...m , jmcphee@... wrote:
>
>
>
> Question-Rotation of the neutralization pot (TC-1) has no effect on the signal strength as displayed on the s-meter of a nearby receiver following the process outlined in the instruction manual. Does this indicate a problem?
>
> Background-I am a new ham who purchased an 830S, through ebay, from an active ham. He indicated that it was not his primary rig, but that he used it successfully immediately prior to my buying it. When I initially tried to tune up the transmitter output (peak the drive, dip the plate), I got erratic meter reading. I checked the tubes, and found that one of the 6146Bs had a rattle, apparently caused by â€œsomethingâ€? loose inside. Although the transceiver was well packed, I suspected the tube had been damaged in transit. I replaced both 6146Bs with a matched pair of 6146Ws from RFPARTS, and also replaced the driver tube. I then followed the neutralization process as shown on page 28 of the instruction manual:
>
> 1. I tuned the xmitter into a dummy load on 28.500.
>
> 2. I set the SG switch off.
>
> 3. Stand-by switch to send.
>
> 4. Adjusted TC1 (at the bottom of the final section).
>
> 5. I observed the s-meter on a nearby receiver.
>
> a. Using the rf gain of that receiver I had previously aligned the meter with a reference point.
>
> 6. The s-meter indicated a steady signal. It did not move while I rotated TC-1.
>
>
>
>
> Jim McPhee
>
> Placitas, NM
>
> KF5BNG
>
>

>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

21427. TS-830S-Neutralization question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-12 22:45:58 UTC
From: jmcphee@comcast.net
Topic: 21417 Message: 21427

I sent this response earlier, but it doesn't appear to have gone through. I'll try again.

Jim McPhee
Placitas, NM
KF5BNG

----- Forwarded Message -----
From: jmcphee@...
To: "TS-520 820 530 830" <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, June 12, 2009 11:27:47 AM GMT -07:00 US/Canada Mountain
Subject: Re: [TS-520_820_530_830] Re: TS-830S-Neutralization question

Mike,

Thanks for your response. I tried to be very precise in describing the process I followed just so there would be no question about it, but let me try again.

I know what the purpose of the neutralization process is.

I followed the process (or the alternate process, perhaps) as defined in the instruction manual on page 28. I didn't make the process up.

The manual says, after describing how to proceed if you have a "sensitive RF milli-voltmeter", and I quote:

"A receiver tuned to 28.5 MHz works very well for neutralizing if an RF voltmeter is not available. Instead of tuning for a minimum voltage, tune for a minimum S-meter reading."

An RF voltmeter is not available (no scope, either) , so I followed the above process. I did not adjust anything other than the neutralization pot (with a plastic screwdriver) once the transmitter was tuned up and I began the neutralization process. So, the question remains:

Rotation of the neutralization pot (TC-1) has no effect on the signal strength as displayed on the s-meter of a nearby receiver following the process outlined in the instruction manual. Does this indicate a problem?

Jim McPhee
Placitas, NM
KF5BNG

----- Original Message -----
From: "w5rkl" <w5rkl@...>
To: "TS-520 820 530 830" <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, June 12, 2009 10:52:41 AM GMT -07:00 US/Canada Mountain
Subject: [TS-520_820_530_830] Re: TS-830S-Neutralization question

Hello Jim,

Neutralization is not about reducing the operating frequency signal strength but rather reducing "spurious" signals that are outside of the operating frequency. Using a separate receiver as an indicator when neutralizing a final amplifier is not the route to take and you will always see the same S meter reading on the separate receiver when adjusting the neutralizing capacitor.

Your initial set up procedures are correct. However, once you have tuned the radio up into a dummy load to full output, set the "SG" switch to "OFF", you then connect an RF Probe that is connected to a VTVM or a scope probe connected to a scope to the rear SO-239 center pin and ground to the chassis. At that point you key the radio and adjust the neutralizing capacitor for a "minimum" reading on the VTVM OR scope display. You do NOT re-adjust the DRIVE, VFO, PLATE, and LOAD controls while neutralizing final amplifier, ONLY the neutralizing capacitor inside the final amplifier cage with a well insulated screw driver.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com , jmcphee@... wrote:
>
>
>
> Question-Rotation of the neutralization pot (TC-1) has no effect on the signal strength as displayed on the s-meter of a nearby receiver following the process outlined in the instruction manual. Does this indicate a problem?
>
> Background-I am a new ham who purchased an 830S, through ebay, from an active ham. He indicated that it was not his primary rig, but that he used it successfully immediately prior to my buying it. When I initially tried to tune up the transmitter output (peak the drive, dip the plate), I got erratic meter reading. I checked the tubes, and found that one of the 6146Bs had a rattle, apparently caused by â€œsomethingâ€? loose inside. Although the transceiver was well packed, I suspected the tube had been damaged in transit. I replaced both 6146Bs with a matched pair of 6146Ws from RFPARTS, and also replaced the driver tube. I then followed the neutralization process as shown on page 28 of the instruction manual:
>
> 1. I tuned the xmitter into a dummy load on 28.500.
>
> 2. I set the SG switch off.
>
> 3. Stand-by switch to send.
>
> 4. Adjusted TC1 (at the bottom of the final section).
>
> 5. I observed the s-meter on a nearby receiver.
>
> a. Using the rf gain of that receiver I had previously aligned the meter with a reference point.
>
> 6. The s-meter indicated a steady signal. It did not move while I rotated TC-1.
>

>
>
>
> Jim McPhee
>
> Placitas, NM
>
> KF5BNG
>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

21428. Re: [TS-520_820_530_830] Re: TS-830S-Neutralization question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-12 23:12:09 UTC
From: Lou Blasco
Topic: 21417 Message: 21428

Hi Jim,

I understand the process you followed and why but imagine that your PA was spurious at say 22MHz. Your receiver tuned to 28.5MHz wouldn't (shouldn't) indicate anything. No matter how you adjust TC-1 your testing arrangement would not help you to reduce the 22MHz spurious.

I can't explain why that procedure is in the book (maybe the PA is prone to spurii at 28.5MHz) but certainly a 'scope or RF voltmeter would help confirm the PA was stable. Perhaps you can borrow some gear from a local club or amateur?

You indicate you've made some kind of reference measurement on your receiver. What do you mean and does it change when you hit the send switch. If so what do you read on receiver and transmit? Also, is the receiver connected to the 830 or really just sitting nearby with no aerial connection?

As I write I'm thinking that even if you can't find a scope or RF voltmeter you could use the receiver to look for spurrii by tuning up and down the bands whilst toggling the send switch on the 830. Lots more work for you but it should help put your mind at rest.

Regards

Lou
VK3ALB

At 03:27 13/06/2009, you wrote:
>Mike,
>
>Thanks for your response. I tried to be very precise in describing
>the process I followed just so there would be no question about it,
>but let me try again.
>
>I know what the purpose of the neutralization process is.
>
>I followed the process (or the alternate process, perhaps) as
>defined in the instruction manual on page 28. I didn't make the process up.
>
>The manual says, after describing how to proceed if you have a
>"sensitive RF milli-voltmeter", and I quote:
>
>"A receiver tuned to 28.5 MHz works very well for neutralizing if an
>RF voltmeter is not available. Instead of tuning for a minimum
>voltage, tune for a minimum S-meter reading."
>

>An RF voltmeter is not available (no scope, either) , so I followed
>the above process. I did not adjust anything other than the
>neutralization pot (with a plastic screwdriver) once the transmitter
>was tuned up and I began the neutralization process. So, the question remains:
>
>Rotation of the neutralization pot (TC-1) has no effect on the
>signal strength as displayed on the s-meter of a nearby receiver
>following the process outlined in the instruction manual. Does this
>indicate a problem?

21429. Re: TS-820S & SM-220

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-12 23:16:23 UTC
From: davidbennett92
Topic: 21383 Message: 21429

G'Day
I posted a question re this subject a week or to ago . I have a ts 530sp and a sm220. There has been a lot of talk about the if out of the 530 series radio. This 530sp has no if outputs at all on the back it has a couple of accesories holes that could take the fittings needed , and they still have the silver tape over them from new. I believe i need 2 outputs from the if. One for the v input and the other for the pan adaptor. So my question is has anyone ever modified their 530sp and wired in the 2 if outputs needed for the sm220.
Also does anyone know if they are the same as an 830 because a mate has one down the road that i may be able to con him into letting me pull the cover off to find where the if comes from on the board.
Any help would be greatly appreciated
Regards David VK2DV
--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
>
> Hello everyone,
>
> The BS-5 and BS-8, when connected to the 520 or 820 series IF
> connections, do the same thing, display the signals within
> +/- 20Khz or +/- 100Khz band spread of the operating frequency.
> The operating frequency is the "center" of the 220's display. This
> is assuming the BS-5 or BS-8 have been aligned properly as stated
> in the SM-220 manual.
>
> The 530 or 830 can be connected to the SM-220 adapter but only
> with the BS-8 since both the 530 and 830 have 8Mhz IF frequencies.
> Actually, any transceiver that has an IF frequency that is the same
> as the BS-5 or BS-8 can be connected to the SM-220 adapters. The
> radio doesn't have to be a Kenwood hybrid! The radio simply must
> have an IF frequency that is acceptable by either the BS-5 or BS-5
> adapter to the SM-220. There is no requirement for any adapters
> for monitoring the transmitter signals, simply connect the
> transmitter and/or linear amplifier output to the rear SO-239
> connections as shown in the SM-220 manual. Just because the SM-220
> is manufactured by Kenwood does NOT mean you can only connect
> Kenwood transmitters or transceivers to it!
>
> The IF frequencies of all 4 of the hybrids, and other ham gear as
> well, remains fairly constant but the incoming signal frequencies
> change.
>
> If the VFO is tuned to 7.100 and a station is transmitting a
> carrier at 7.100, the carrier will be a vertical spike in the
> center of the display. Tuning the VFO either side of 7.100, the
> carrier spike will no longer be at the center of the display

> but will move left or right of center, depending on which direction
> the operator tunes the VFO.
>
> The wave forms shown on page 10, figures 5-3 thru 5-6 and 5-7 of
> the SM-220 manual are the transmitter's wave forms produced by
> sampling the RF signal from the exciter and/or linear amplifier
> connected to the rear SO-239 IN/OUT connection. They have nothing
> to do with nor are they part of the BS-5 or BS-8 adapter signals.
>
> The receive RTTY mark and space tones, as shown on page 12 figure
> 5-10, are "DC" voltages provided by an external Terminal Unit such
> as an AEA PK-232. The Terminal Unit "converts" the RTTY Mark and
> Space tones into DC voltages that, when connected as shown on page
> 12 figure 5-10, will display the cross hatch pattern. The Terminal
> Unit is not part of, nor is it included in, either the TS-520,
> TS-820, TS-530, TS-830, SM-220, BS-5 or BS-8.
>
> The connection between the SM-220 and the 520, 820, 530, or 830, as
> shown on page 8 figure 5-1, is feeding the SB-220's tone generator,
> single tone or dual tones, into the microphone connection. The tones
> are selected from the SM-220's front panel. The SM-220 came equipped
> with a cable with a 3.5mm mono plug on one end and a 4 pin female
> microphone plug on the other, allowing the SM-220's tone generator
> to inject the tones into the microphone socket for testing and
> viewing of the transmitter's signal on the SM-220 display.
>
>
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@> wrote:
> >
> > If I remember the sm220 with the bs-8 will only show the other station. It
> > will NOT pan ... on the 820s see the manual (pg 14 i think)
> > >
> > >
> > > ----- Original Message -----
> > > From: "w5rkl" <w5rkl@>
> > > To: <TS-520_820_530_830@yahoogroups.com>
> > > Sent: Friday, June 12, 2009 12:39 PM
> > > Subject: [TS-520_820_530_830] Re: TS-820S & SM-220
> > > >
> > > >
> > > > Hi Tom and the group,
> > > >
> > > > The connections to the Drain of Q4 in the 520, as shown in the SM-220
> > > > manual, taps the 520's 3.3Mhz IF signal at the primary of T6 on the
> > > > IF UNIT board, just before it is fed to the Balance Detector on the
> > > > Generator Unit. The same principle is accomplished in the 820 except
> > > > the tap is accomplished on the 820's IF UNIT since the balance
> > > > detector in the 820, not like in the 520 series, is located on the

> > > 820's IF UNIT.
> > >
> > > The 520 series and 820 series have different IF frequencies. The
> > > 520 series IF frequency is 3.3Mhz and the 820 series IF frequency
> > > is 8.3Mhz. There are differences in how the "IF" frequency is
> > > created between the 520 and 820 series transceivers.
> > >
> > > One main difference between the two different models, 820 verses
> > > 520, is the incoming signal is mixed "once" in the 820 to create the
> > > actual "IF" frequency but "twice" in the 520 series to create the
> > > actual "IF". See below on how this is accomplished.
> > >
> > > 520 series:
> > >
> > > The amplified incoming signal in the 520 models is mixed on the RF
> > > UNIT with the local oscillator producing the 8Mhz "RIF" frequency.
> > > The "RIF" frequency, in all 520 models, is "NOT" the 520's actual IF
> > > frequency. The 8Mhz signal is fed to the IF UNIT where it is
> > > further mixed with the "VFO" signal to produce the actual "3.3Mhz" IF
> > > frequency.
> > >
> > > 820 series:
> > >
> > > The amplified incoming signal is mixed with the "VCO" frequency on
> > > the RF UNIT producing the 8.3Mhz "RIF" frequency. Unlike the 8Mhz
> > > "RIF" frequency in the 520 models, the 8Mhz "RIF" frequency "is" the
> > > actual "IF" frequency in the 820 models.
> > >
> > > The Kenwood BS-5 Pan Adapter is for the 520 series and the BS-8
> > > Pan Adapter is for the 820 series. Therefore, a BS-5 will not work
> > > with an 820 and a BS-8 will not work with a 520.
> > >
> > > 73
> > > Mike
> > > W5RKL
> > >
> > >
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "sceneryguru" <k3ssb@>
> > > wrote:
> > >>
> > >> Good Afternoon Group:
> > >>
> > >> Mike, Gordon; looks like you beat me to it... yes, my TS-820S does indeed
> > >> have the IF output on its back panel. Thanks to the groups responses, and
> > >> a little detective work, it appears that the proper procedure to follow
> > >> is:
> > >>

> > >> From the SM-220 manual: "RECEIVE SIGNAL OBSERVATION" for receive signal
> > >> observation, connect the transceiver IF #2 OUTPUT terminal to the SM-220,
> > >> V. INPUT terminal. It goes on to talk about the settings, etc. See SM-220
> > >> manual page#10.
> > >>
> > >> Thanks again to those kind enough to reply.
> > >>
> > >> 73
> > >>
> > >> Tom G, Sr.
> > >> K3SSB
> > >>
> > >>
> > >>
> > >>
> > >> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > >> >
> > >> > An unmodified TS-820 does NOT have an IF out connection on the rear
> > >> > panel.
> > >> >
> > >> > The 2 female RCA sockets on the rear panel, between the fan plug and
> > >> > the SG switch, are for connecting the X-Verter "IN" and "OUT"
> > >> > connections. Neither of these sockets provide an IF signal.
> > >> >
> > >> > The 2 female RCA sockets located below the 8 pin octal socket
> > >> > provide transmit and receive "Audio" connections for external
> > >> > "audio" devices such as a phone patch, computer sound card interface,
> > >> > etc. Again, neither of these socket provide an IF signal.
> > >> >
> > >> > The step by step modification instructions are covered in the SM-220
> > >> > operator's manual on page 16.
> > >> >
> > >> > If you do not have the SM-220 and the TS-820 manuals, you can download
> > >> > them free at the following links.
> > >> >
> > >> >
> > >> > SM-220 manual link:
> > >> >
> > >> > http://www.radioamateur.eu/schemi/Kenwood_SM220_user.pdf
> > >> >
> > >> >
> > >> > TS-820 manual link:
> > >> >
> > >> > http://www.kenwoodusa.com/Support/Amateur_Radio/#_
> > >> >
> > >> > Simply scroll down to the manual portion, click the drop down
> > >> > menu, and select TS-820S. When the download link appears, click the
> > >> > link and download the manual.
> > >> >
> > >> > Mike W5RKL

> > >> >
> > >> > --- In TS-520_820_530_830@yahoogroups.com, carboyhat@ wrote:
> > >> > >
> > >> > > If you connect the IF OUT on the back of your TS-820S to the V. INPUT
> > >> > > on
> > >> > > the lower left
> > >> > > front panel of the SM-220, you should get a pattern on the scope
> > >> > > screen
> > >> > > when receiving. If the
> > >> > > BS-8 pan adaptor is installed inside the scope, the band scope
> > >> > > function
> > >> > > will function also.
> > >> > >
> > >> > > 73 de Bob, AA4AI
> > >> > > --
> > >> > >
> > >> > > >
> > >> > > > ----- Original Message -----
> > >> > > > From: "sceneryguru" <k3ssb@>
> > >> > > > To: <TS-520_820_530_830@yahoogroups.com>
> > >> > > > Sent: Wednesday, June 10, 2009 4:05 PM
> > >> > > > Subject: [TS-520_820_530_830] TS-820S & SM-220
> > >> > > >
> > >> > > >
> > >> > > > > Good Afternoon:
> > >> > > > >
> > >> > > > > My TS-820S has an IF output on its back panel. Can I run the
> > >> > > > > output
> > >> > > > > directly into the SM-220 IF input?
> > >> > > > >
> > >> > > > > I understand that the TS-830S series could... but was lead to
> > >> > > > > believe that
> > >> > > > > the TS-820S couldn't without a modification from the BS-8 out.
> > >> > > > >
> > >> > > > > PS: I'm a new member of the group... glad I found you folks.
> > >> > > > >
> > >> > > > > TNX & 73
> > >> > > > >
> > >> > > > > Tom G, Sr
> > >> > > > > K3SSB
> > >> > > > >
> > >> > > > ____
> > >> > > > Click here to find the perfect banking opportunity!
> > >> > > > http://thirdpartyoffers.juno.com/TGL2141/fc/BLSrjpTMLunWneHkusQWjoT4QVRRTCbgoeg
vwBzVKZIkGwVTBlhjhAFLEFC/
> > >> > > >
> > >> > >
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> > > Yahoo! Groups Links
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21430. problems alc on ts520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-13 00:19:05 UTC
From: vk4baz
Topic: 21430 Message: 21430

Iam in need of help if possible, I resurrected a ts520s replaced the driver tube give it a receiver align ,mix osc ,I would like to do a drive coil align but my alc is not working on any band ,hv voltage is ok getting 850 approx what I really would like can anyone axplain what the alc does and where to start looking my knowledge on these old radios is about a 4 out of 10 I am hungry to know more thanking you

barry

21431. Re: [TS-520_820_530_830] Re: TS-820S & SM-220

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-13 00:57:42 UTC
From: pmarkavage
Topic: 21383 Message: 21431

According to what I've read and seen in the SM-220 operating manual, the IF output jack on the back of the TS-820 is meant to be connected to the vertical input (front panel) of the SM-220. This connection allows you to see the received signal on the scope. This signal is on the output side of the last IF chain. That connection on the back of the TS-820 is not for the pan adapter display of the SM-220. Note: This connection also requires some component modification when the SM-220 is used with the TS-820 (see Page 9 of the SM-220 operating manual). You normally extracted a signal for pan adapter viewing on the input side of the first IF. Page 16 of the SM-220 operating manual clearly defines how you have to make the internal connection for the pan adapter cable on either the TS-520 or TS-820.

Pete, wa2cwa

On Fri, 12 Jun 2009 10:47:02 -0000 "w5rkl" <w5rkl@...> writes:
> Good morning Gordon and the group,
>
> My mistake, I was wrong. The 820 does have an IF output RCA
> socket on the upper right corner of the rear panel. I completely
> forgot about that socket.
>
> The 820's IF frequency, at that socket, is 8.83Mhz. I apologize for
> my mistake.
>
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, n6wk@... wrote:
> >
> > Hi Mike,
> > This is strange because even the service manual tells us to
> do
> > step 2-6 (Carrier Balance adjustment) measurement from the IF
> out
> > terminal on the rear connector. Page (47)
> > I know the 520 does NOT have the IF out, but every 820S I have
> worked on
> > does .
> > You sure you are talking about an 820S?
> > I shouldn't doubt you because you know as much or more about
> these
> > radios as anyone I know.
> >
> > 73,

> > Gordon
> > n6wk
> >
> >
> > w5rkl wrote:
> > >
> > >
> > > Gordon,
> > >
> > > Typically the 820 did not have an IF output.
> > >
> > > My 820S does not have an IF output. The 2 RCA sockets on the
> rear of
> > > my 820, below the 8 pin octal socket, are "phone patch"
> connections.
> > > It appears your 820 is different, possibly a factory change or
> a
> > > previous owner mod, if you are not the original owner, was made
> > > to bring the "RIF" connection to the rear. It would be easy to
> > > determine which one by looking at the wiring. A factory
> > > modification/change more than likely would have the cabling
> embedded
> > > in the wiring harness, or neatly laced among the wiring harness.
> An
> > > owner modification may not have installed the wiring as neat as
> the
> > > factory would. I could be wrong but most mods I have seen that
> > > required wiring changes/additions were no where near as neat as
> > > factory wiring is. Anyway, have fun.
> > >
> > > Mike W5RKL
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com
> > > <mailto:TS-520_820_530_830%40yahoogroups.com>, n6wk@ wrote:
> > > >
> > > > Mike,
> > > > I have 2 UNmodified 820's here and they BOTH have the IF out
> on the
> > > back.
> > > > When looking at the rig from the rear, they are in the upper
> right
> > > corner.
> > > > The label is hard stamped into the back panel from the
> factory.
> > > >
> > > > 73,
> > > > gordon
> > > >
> > > > w5rkl wrote:
> > > > >

> > > > >
> > > > > An unmodified TS-820 does NOT have an IF out connection on
> the rear
> > > > > panel.
> > > > > >
> > > > > The 2 female RCA sockets on the rear panel, between the fan
> plug and
> > > > > the SG switch, are for connecting the X-Verter "IN" and
> "OUT"
> > > > > connections. Neither of these sockets provide an IF signal.
> > > > > >
> > > > > The 2 female RCA sockets located below the 8 pin octal
> socket
> > > > > provide transmit and receive "Audio" connections for
> external
> > > > > "audio" devices such as a phone patch, computer sound card
> interface,
> > > > > etc. Again, neither of these socket provide an IF signal.
> > > > > >
> > > > > The step by step modification instructions are covered in
> the SM-220
> > > > > operator's manual on page 16.
> > > > > >
> > > > > If you do not have the SM-220 and the TS-820 manuals, you
> can download
> > > > > them free at the following links.
> > > > > >
> > > > > SM-220 manual link:
> > > > > >
> > > > > http://www.radioamateur.eu/schemi/Kenwood_SM220_user.pdf
> > > <http://www.radioamateur.eu/schemi/Kenwood_SM220_user.pdf>
> > > > > <http://www.radioamateur.eu/schemi/Kenwood_SM220_user.pdf
> > > <http://www.radioamateur.eu/schemi/Kenwood_SM220_user.pdf>>
> > > > > >
> > > > > TS-820 manual link:
> > > > > >
> > > > > http://www.kenwoodusa.com/Support/Amateur_Radio/#_
> > > <http://www.kenwoodusa.com/Support/Amateur_Radio/#_>
> > > > > <http://www.kenwoodusa.com/Support/Amateur_Radio/#_
> > > <http://www.kenwoodusa.com/Support/Amateur_Radio/#_>>
> > > > > >
> > > > > Simply scroll down to the manual portion, click the drop
> down
> > > > > menu, and select TS-820S. When the download link appears,
> click the
> > > > > link and download the manual.
> > > > > >
> > > > > Mike W5RKL
> > > > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com

> > > <mailto:TS-520_820_530_830%40yahoogroups.com>
> > > > > <mailto:TS-520_820_530_830%40yahoogroups.com>, carboyhat@
> wrote:
> > > > > >
> > > > > > If you connect the IF OUT on the back of your TS-820S to
> the V.
> > > INPUT on
> > > > > > the lower left
> > > > > > front panel of the SM-220, you should get a pattern on the
> scope
> > > screen
> > > > > > when receiving. If the
> > > > > > BS-8 pan adaptor is installed inside the scope, the band
> scope
> > > function
> > > > > > will function also.
> > > > > >
> > > > > > 73 de Bob, AA4AI
> > > > > > --
> > > > > >
> > > > > > > ----- Original Message -----
> > > > > > > From: "sceneryguru" <k3ssb@>
> > > > > > > To: <TS-520_820_530_830@yahoogroups.com
> > > <mailto:TS-520_820_530_830%40yahoogroups.com>
> > > > > <mailto:TS-520_820_530_830%40yahoogroups.com>>
> > > > > > > Sent: Wednesday, June 10, 2009 4:05 PM
> > > > > > > Subject: [TS-520_820_530_830] TS-820S & SM-220
> > > > > > >
> > > > > > >
> > > > > > > > Good Afternoon:
> > > > > > >
> > > > > > > My TS-820S has an IF output on its back panel. Can I
> run the
> > > > > > output
> > > > > > > directly into the SM-220 IF input?
> > > > > > >
> > > > > > > I understand that the TS-830S series could... but was
> lead to
> > > > > > believe that
> > > > > > > the TS-820S couldn't without a modification from the
> BS-8 out.
> > > > > > >
> > > > > > > PS: I'm a new member of the group... glad I found you
> folks.
> > > > > > >
> > > > > > > TNX & 73
> > > > > > >
> > > > > > > Tom G, Sr
> > > > > > > K3SSB

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21432. Re: TS-820S & SM-220

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-13 04:19:17 UTC
From: w5rkl
Topic: 21383 Message: 21432

Hello Pete,

The SM-220 can be used as a simple 2Hz to 10Mhz simple oscilloscope. The vertical and horizontal BNC connectors are "inputs" for the OSC/RTTY FUNCTION switch position. The only benefit to connecting the transceiver's IF output to the vertical BNC input connector is to display the IF signal level. Connecting the transceiver's IF input this way will NOT provide the display features the BS-5 or BS-8 provides.

The modifications shown on page 16, figure 8-5 are for the "520" NOT the 820.

The modification shown on page 16, figure 8-6 is for TS-820's that do NOT have an IF output on the rear panel. If the 820 has an IF output on the rear panel, the modification shown on page 16, figure 8-6 is NOT required!

The addition of the two resistors, 150 ohm and 10K ohm, shown on page 9 figure 5-2, is required to reduce the level of the IF signal from the 820 that connects to the BS-8 pan adapter plug in module on the rear of the SM-220, nothing more.

In order to use the BS-5 or BS-8 when installed in the SM-220, the transceiver's IF output MUST be connected to the rear RCA socket on the SM-220. The font panel BNC vertical and horizontal connections will not connect to the BS-5 or BS-8.

Mike W5RKL

21433. Re: problems alc on ts520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-13 05:08:03 UTC
From: w5rkl
Topic: 21430 Message: 21433

Hello Barry,

ALC is a transmitter ONLY control voltage and is only produced
when grid current flows in the final tubes.

When the transmitter's driving signal causes the final tube
grids to become positive, a current flows between the final tube
cathodes and grids. When this occurs, the ALC circuit senses this
and creates ALC voltage. The ALC voltage varies at the same rate
as the RF driving signal. The ALC voltage is then fed back to
an earlier stage, normally the transmitter's IF amplifier, causing
a reduction in the IF amplifier's gain which ultimately results
in a reduction in the final amplifier's output. ALC voltage works
just like a receiver's AGC voltage does, controls the gain of the
transmitter.

If the level of ALC voltage fed back to the IF amplifier is equal
to or less than the operating bias of the IF amplifier, no gain
reduction in the IF amplifier occurs. Gain reduction in the IF
amplifier ONLY occurs if the ALC voltage exceeds the operating bias
of the IF amplifier and not until then.

When the final tube grids become positive, gird current flows, and
ALC voltage is produced, just as I state above. However, when
this occurs, the final amplifier is no longer operating in a linear
state and the output signal becomes distorted. ALC is designed to
lower the gain of an earlier stage in order to allow the final
amplifier to return to its linear state.

The bottom line is, the lower the ALC indication the cleaner your
signal will be.

ALC is NOT used in CW because the transmitter's output level is
"manually" controlled by the CAR control. The CAR control is used
in both TUNE and CW modes but has absolutely no control what so
ever in sideband (USB or LSB).

ALC works like AGC does in a receiver, except it is produced
ONLY in the transmitter, never in the receiver.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@...> wrote:
>
> Iam in need of help if possible, I resurrected a ts520s replaced the driver tube give it
a receiver align ,mix osc ,I would like to do a drive coil align but my alc is not working
on any band ,hv voltage is ok getting 850 approx what I really would like can anyone

axplain what the alc does and where to start looking my knowledge on these old radios is about a 4 out of 10 I am hungry to know more thanking you
>
> barry
>

21434. Re: [TS-520_820_530_830] Re: TS-820S & SM-220

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-13 08:22:43 UTC
From: pmarkavage
Topic: 21383 Message: 21434

Mike:
I think you need to go back and read the SM-220 operating manual. It clearly states in Section 8.6, page 16 of the SM-220 operating manual, that the TS-520 and TS-820 have no Pan Display output terminals. It also provides the construction details for connecting the IF sample cable and added parts to the TS-520 and TS-820. This IF cable is what connects to the input of the BS-5 or BS-8 for pan adapter operation. The connections for the transceiver pan adapter output are exited at the 8 pin Remote plug.

It also clearly states in Section 5.2, Receive Signal Observation, page 9 of the SM-220 operating manual, "for receive signal observation, connect the TS-820S IF OUTPUT terminal to the SM-220 V (vertical) INPUT terminal". The addition of two resistors (voltage divider) is also required to be installed. This connection is no different then connecting the vertical input of a typical scope to the IF OUTPUT terminal(jack) on the back of the TS-820. Also in Section 5.2, there is a Section labeled TS-520/S IF Output Installation (May be installed at the time of BS-5/BS-8 modification). This modification will allow the TS-520/S to connect to the vertical input (V input) of the SM-220 for receive signal observation. NOTE: Receive signal observation has nothing to do with the BS-5 or BS-8 pan adapter. The receive signal observation, with the front panel SM-220 switch set to OSC/RTTY, allows you to view modulated SSB and AM waveforms and also to view CW signals and yes, if vertical and horizontal input connections are made, to view RTTY signals.

The SM-220 allows three types of viewing on the CRT. (1) You can view your transmitted waveform, (2) with the BS-5/BS-8, you can sweep and view up to +/- 100 KHz on either side of center received frequency, and (3) you can view in the OSC/RTTY position, the modulated waveforms of the received signals. The transceiver or receiver require two different connections to the rig. Pan adapter operation is generally done with signals before they enter the IF section of the receiver and "receive signal observation" (looking at the received waveforms) is generally done at the output of the IF section which generally is the input of detector stage. When the TS-830S was intrduced, it has two phono type jacks on the back (IF1 and IF2) to interface with the SM-220 to allow you to do both (2) and (3) without any additional internal wiring.

Pete, wa2cwa

On Sat, 13 Jun 2009 04:19:17 -0000 "w5rkl" <w5rkl@...> writes:
> Hello Pete,
>
> The SM-220 can be used as a simple 2Hz to 10Mhz simple
> oscilloscope.

> The vertical and horizontal BNC connectors are "inputs" for the
> OSC/RTTY FUNCTION switch position. The only benefit to connecting
> the transceiver's IF output to the vertical BNC input connector is
> to display the IF signal level. Connecting the transceiver's IF
> input this way will NOT provide the display features the BS-5 or
> BS-8 provides.
>
> The modifications shown on page 16, figure 8-5 are for the "520"
> NOT
> the 820.
>
> The modification shown on page 16, figure 8-6 is for TS-820's that
> do NOT have an IF output on the rear panel. If the 820 has an IF
> output on the rear panel, the modification shown on page 16, figure
> 8-6 is NOT required!
>
> The addition of the two resistors, 150 ohm and 10K ohm, shown on
> page 9 figure 5-2, is required to reduce the level of the IF
> signal from the 820 that connects to the BS-8 pan adapter plug
> in module on the rear of the SM-220, nothing more.
>
> In order to use the BS-5 or BS-8 when installed in the SM-220, the
> transceiver's IF output MUST be connected to the rear RCA socket
> on the SM-220. The font panel BNC vertical and horizontal
> connections
> will not connect to the BS-5 or BS-8.
>
>
>
> Mike W5RKL
>

21435. Re: [TS-520_820_530_830] Newly Aquired TS-520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-13 07:29:22 UTC
From: Alex Holden
Topic: 21388 Message: 21435

Hi Kevin, I use both a Shure 444 mic (you can find these every where) and an old Motorola hand mic (a taxi mic) with my TS520s and consistently receive good audio reports. Good luck with the 520s, as I really enjoy mine.
Alex

--- On Wed, 6/10/09, Gmail - Kevin, Natalia, Stacey & Rochelle <sparcnz@...> wrote:

From: Gmail - Kevin, Natalia, Stacey & Rochelle <sparcnz@...>
Subject: [TS-520_820_530_830] Newly Aquired TS-520S
To: TS-520_820_530_830@yahoogroups.com
Received: Wednesday, June 10, 2009, 10:31 PM

HI All,

Just aquired a TS-520S in good condition for it's age.

Has a good RX and TX is excellent with 130 watts into a matched antenna and dummy load.

However a couple of minor issues I would like to fix

1. the VOX switch is broken, is there replacement swtiches to fix?

2. The mic was lost from the owner and replaced with a GE CB mic. The impedenace are the same, just would be nice to have a Kenwood mic.

Not much else to know about this radio, need to get it on the desk and fully look it over and try it out.

Regards

Kevin, ZL1KFM.

[Non-text portions of this message have been removed]

_____
Ask a question on any topic and get answers from real people. Go to Yahoo! Answers and share what you know at http://ca.answers.yahoo.com

[Non-text portions of this message have been removed]

21436. Re: [TS-520_820_530_830] Re: TS-830S-Neutralization question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-13 09:40:15 UTC
From: Mike Rodgers
Topic: 21417 Message: 21436

i am just a dummy here but i assume you do not have the kenwood set on 28.5?you did not say what frequency you were trying this process on.it seems to me this could work if the kenwood was set to a DIFFERENT frequency than the receiver.this may be obvious but measuring spurious emmision seems like would not work on the operating frequency. apoligize if i am showing my ignorance here.mike

--- On Fri, 6/12/09, jmcphee@... <jmcphee@comcast.net> wrote:

From: jmcphee@... <jmcphee@...>
Subject: Re: [TS-520_820_530_830] Re: TS-830S-Neutralization question
To: "TS-520 820 530 830" <TS-520_820_530_830@yahoogroups.com>
Date: Friday, June 12, 2009, 12:27 PM

Mike,

Thanks for your response. I tried to be very precise in describing the process I followed just so there would be no question about it, but let me try again.

I know what the purpose of the neutralization process is.

I followed the process (or the alternate process, perhaps) as defined in the instruction manual on page 28. I didn't make the process up.

The manual says, after describing how to proceed if you have a "sensitive RF milli-voltmeter" , and I quote:

"A receiver tuned to 28.5 MHz works very well for neutralizing if an RF voltmeter is not available. Instead of tuning for a minimum voltage, tune for a minimum S-meter reading."

An RF voltmeter is not available (no scope, either) , so I followed the above process. I did not adjust anything other than the neutralization pot (with a plastic screwdriver) once the transmitter was tuned up and I began the neutralization process. So, the question remains:

Rotation of the neutralization pot (TC-1) has no effect on the signal strength as displayed on the s-meter of a nearby receiver following the process outlined in the instruction manual. Does this indicate a problem?

Jim McPhee
Placitas, NM
KF5BNG

----- Original Message -----
From: "w5rkl" <w5rkl@yahoo. com>
To: "TS-520 820 530 830" <TS-520_820_530_ 830@yahoogroups. com>
Sent: Friday, June 12, 2009 10:52:41 AM GMT -07:00 US/Canada Mountain
Subject: [TS-520_820_ 530_830] Re: TS-830S-Neutralizat ion question

Hello Jim,

Neutralization is not about reducing the operating frequency
signal strength but rather reducing "spurious" signals that are
outside of the operating frequency. Using a separate receiver as an
indicator when neutralizing a final amplifier is not the route to
take and you will always see the same S meter reading on the
separate receiver when adjusting the neutralizing capacitor.

Your initial set up procedures are correct. However, once you
have tuned the radio up into a dummy load to full output, set the
"SG" switch to "OFF", you then connect an RF Probe that is connected
to a VTVM or a scope probe connected to a scope to the rear SO-239
center pin and ground to the chassis. At that point you key the
radio and adjust the neutralizing capacitor for a "minimum" reading
on the VTVM OR scope display. You do NOT re-adjust the DRIVE, VFO,
PLATE, and LOAD controls while neutralizing final amplifier,
ONLY the neutralizing capacitor inside the final amplifier cage
with a well insulated screw driver.

Mike W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com , jmcphee@... wrote:
>
>
>
> Question-Rotation of the neutralization pot (TC-1) has no effect on the signal strength as displayed on the s-meter of a nearby receiver following the process outlined in the instruction manual. Does this indicate a problem?
>
> Background-I am a new ham who purchased an 830S, through ebay, from an active ham. He indicated that it was not his primary rig, but that he used it successfully immediately prior to my buying it. When I initially tried to tune up the transmitter output (peak the drive, dip the plate), I got erratic meter reading. I checked the tubes, and found that one of the 6146Bs had a rattle, apparently caused by â€œsomethingâ€? loose inside. Although the transceiver was well packed, I suspected the tube had been damaged in transit. I replaced both 6146Bs with a matched pair of 6146Ws from RFPARTS, and also replaced the driver tube. I then followed the neutralization process as shown on page 28 of the instruction manual:
>
> 1. I tuned the xmitter into a dummy load on 28.500.
>
> 2. I set the SG switch off.
>
> 3. Stand-by switch to send.
>
> 4. Adjusted TC1 (at the bottom of the final section).
>
> 5. I observed the s-meter on a nearby receiver.
>
> a. Using the rf gain of that receiver I had previously aligned the meter with a reference point.
>

> 6. The s-meter indicated a steady signal. It did not move while I rotated TC-1.
>
>
>
>
> Jim McPhee
>
> Placitas, NM
>
> KF5BNG
>
>
>
>
> [Non-text portions of this message have been removed]
>

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21437. RE: [TS-520_820_530_830] Re: TS-830S-Neutralization question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-13 03:49:24 UTC
From: Jim McPhee
Topic: 21417 Message: 21437

Lou,

As I indicated, I am a novice at this, although I have some background in radios and communications thanks to the USN some years back.

The only deviation the "alternate" process takes from Kenwood's documented "primary" process is to use the s-meter on the nearby receiver as opposed to using a RF voltmeter. Why the Kenwood engineers specified 28.500 as the frequency of choice for the neutralization process I sure don't know, BUT I've got to think that if they could engineer a transceiver as good as these hybrids that they knew what they were doing. There's only one neutralization pot, and only 360 degrees on it, and no access port through the bottom of the case (the case needs to be removed to access it) so you have to make your adjustments before putting the case back on. How one would make different adjustments(if that's what you're suggesting) between 10 and 160 meter bands I don't know. Seems like you "could" chase it all over the place on the different bands. Tuning the pot to the lowest voltage or signal level on another receiver is Kenwood's documented process and the one I will follow until I know or am told of a better one.

Here is the process that Ken at K4EAA.COM recommends on his website:

How can I Neutralize my Finals?
Neutralization is the process of compensating for the inter-electrode capacitance of the final tubes. It helps prevent the tubes from oscillating, and allows them to perform as a stable amplifier. Here is a simple sequence for neutralizing your finals:
(1) Tune up normally into a dummy load on 10M, perhaps 28.1 MHz
(2) Turn your SG (Screen Grid voltage) switch OFF. This effectively turns off your finals, and will prevent them from putting any power into your measurement setup.
(3) If your dummy load has external connections to monitor the RF it is seeing, use those - Otherwise, remove the dummy load and replace it with a 50 ohm resistor (47 or 51 Ohms, 1/2W will work fine) that is mounted onto a PL-259 Plug. During neutralization there is no significant power in the load, so use what's handy.
(4) Using an RF millivoltmeter or oscilloscope with at least 20MHz bandwidth, connect it across the small 50 Ohm test load. A 20MHz scope will display 28 MHz adequately, although it won't accurately measure the RF voltage present. That's OK, because when we neutralize, we're simply tuning for minimum output.
(5) Key the rig and observe the output voltage on your RF VTVM or Scope. This is the drive power "leaking through" to the load with the finals inoperative. Our goal here is to minimize this leakage, and in doing so, we will ne "neutralizing" the inter-electrode capacitance.
(6) Using an INSULATED tool, either plastic or a carved wooden dowel, tune

the neutralization capacitor for minimum output. You should be able to get down to 10 millivolts or so. There is LOTS of voltage present, so don't even THINK about using a metallic tool!! You will spark and arc and create all manner of scarey fireworks if you do - Not to mention perhaps joining the ranks of the SK's . . .
Don't forget to return your SG switch to ON for normal operation.
Same basic process, just a slightly lower 10 meter frequency with the option of using a scope to tune for a minimum output.

In answer to your question about the nearby receiver, it was truly that. Sitting a couple of feet away with no physical connection. Once I had hit the send switch on the 830S, the other receiver picked up the signal from the 830S. I adjusted the RF gain on that other receiver to align the needle with a reference point, say the s7 mark. My thinking was I would have a reference point so I could watch for any deviation above or below that mark with a goal of setting the neutralization pot so that the needle on the other receiver was at its lowest point. Trouble is there was no lowest point; in fact there was no deviation at all.

Regards,

Jim McPhee
Placitas, NM
C23, Therapy
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Lou Blasco
Sent: Friday, June 12, 2009 5:12 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: TS-830S-Neutralization question

Hi Jim,

I understand the process you followed and why but imagine that your PA was spurious at say 22MHz. Your receiver tuned to 28.5MHz wouldn't (shouldn't) indicate anything. No matter how you adjust TC-1 your testing arrangement would not help you to reduce the 22MHz spurious.

I can't explain why that procedure is in the book (maybe the PA is prone to spurii at 28.5MHz) but certainly a 'scope or RF voltmeter would help confirm the PA was stable. Perhaps you can borrow some gear from a local club or amateur?

You indicate you've made some kind of reference measurement on your receiver. What do you mean and does it change when you hit the send switch. If so what do you read on receiver and transmit? Also, is the receiver connected to the 830 or really just sitting nearby with no aerial connection?

As I write I'm thinking that even if you can't find a scope or RF voltmeter you could use the receiver to look for spurrii by tuning up and down the bands whilst toggling the send switch on the 830. Lots more work for you but it should help put your mind at rest.

Regards

Lou
VK3ALB

At 03:27 13/06/2009, you wrote:
>Mike,
>
>Thanks for your response. I tried to be very precise in describing
>the process I followed just so there would be no question about it,
>but let me try again.
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>I know what the purpose of the neutralization process is.
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>Rotation of the neutralization pot (TC-1) has no effect on the
>signal strength as displayed on the s-meter of a nearby receiver
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[Non-text portions of this message have been removed]

21438. FW: [TS-520_820_530_830] Re: TS-830S-Neutralization question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-13 15:49:37 UTC
From: Jim McPhee
Topic: 21438 Message: 21438

I sent this response yesterday at 9:40PM, but it doesn't appear to have gone through. I'll try again.

Do other folks have the same experience? This is the second time that my email has not shown up after many hours.

Regards,

Jim McPhee
Placitas, NM
C23, Therapy
From: Jim McPhee [mailto:jmcphee@...]
Sent: Friday, June 12, 2009 9:49 PM
To: 'TS-520_820_530_830@yahoogroups.com'
Subject: RE: [TS-520_820_530_830] Re: TS-830S-Neutralization question

Lou,

As I indicated, I am a novice at this, although I have some background in radios and communications thanks to the USN some years back.

The only deviation the "alternate" process takes from Kenwood's documented "primary" process is to use the s-meter on the nearby receiver as opposed to using a RF voltmeter. Why the Kenwood engineers specified 28.500 as the frequency of choice for the neutralization process I sure don't know, BUT I've got to think that if they could engineer a transceiver as good as these hybrids that they knew what they were doing. There's only one neutralization pot, and only 360 degrees on it, and no access port through the bottom of the case (the case needs to be removed to access it) so you have to make your adjustments before putting the case back on. How one would make different adjustments(if that's what you're suggesting) between 10 and 160 meter bands I don't know. Seems like you "could" chase it all over the place on the different bands. Tuning the pot to the lowest voltage or signal level on another receiver is Kenwood's documented process and the one I will follow until I know or am told of a better one.

Here is the process that Ken at K4EAA.COM recommends on his website:

How can I Neutralize my Finals?
Neutralization is the process of compensating for the inter-electrode capacitance of the final tubes. It helps prevent the tubes from oscillating, and allows them to perform as a stable amplifier. Here is a simple sequence for neutralizing your finals:
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Same basic process, just a slightly lower 10 meter frequency with the option of using a scope to tune for a minimum output.

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Regards,

Jim McPhee
Placitas, NM
C23, Therapy
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[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Lou Blasco
Sent: Friday, June 12, 2009 5:12 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: TS-830S-Neutralization question

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I understand the process you followed and why but imagine that your PA was spurious at say 22MHz. Your receiver tuned to 28.5MHz wouldn't (shouldn't) indicate anything. No matter how you adjust TC-1 your testing arrangement would not help you to reduce the 22MHz spurious.

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Regards

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At 03:27 13/06/2009, you wrote:
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>indicate a problem?

[Non-text portions of this message have been removed]

21439. Re: TS-820S & SM-220

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-13 16:46:19 UTC
From: w5rkl
Topic: 21383 Message: 21439

Hello Pete,

I may not have been as clear as I should have in my recent response regarding this topic.

I have read the SM-220 manual and I do not disagree, never did, that the SM-220 manual states the IF signal can be displayed by connecting it to the vertical input. What I did say was that by connecting the IF signal to the vertical input, the displayed IF signal will not be the same as the display produced by the BS-5 or BS-8 pan adapters but rather the IF signal level will be displayed. I agree it is possible to display SSB and CW wave forms by connecting the IF signal to the vertical input but the display is limited to the single signal present at 8.3Mhz IF frequency.

As you know, the BS-5 or BS-8 pan adapters, when installed in the SM-220 and connected to the IF output, display a +/- 20Khz or +/- 100Khz snap shot of real time receive bandwidth of the receiver's selected band, including all the signals within the selected bandwidth. However, the display produced by the BS-5 or BS-8 is not possible when connecting the IF output signal to the SM-220's vertical input and setting the Function switch to OSC/RTTY. The SM-220 BS-5 and BS-8 pan adapters produce a display that is similar to other pan adapter scopes such as the Heathkit SB-620.

I also agree that the RF output wave forms of the exciter and linear amplifier can be displayed as stated in the SM-220 manual. This is basically the same as other monitor scopes such as the Heathkit SB-610 for example.

You said early models of the 820 had 2 IF outputs on the rear, IF1 and IF2. That may be so, I can't say one way or the other. However, what I did say was, if the 820 already has an IF output then the modification on page 16 figure 8-6 is not required. The 520 mod is required since the 520 does not have an IF output.

I agree, the IF tap should be made at the input to the detector. The 820 factory IF OUT along with the 520 modification shown on page 16 figure 8-5 does just that. However, the 820 modification on page 16 figure 8-6 does not connect to the detector's input but rather to the IF UNIT's PC board foil "RIF" connection which is the same as the IF UNIT's IF1 pin 1 plug. Having said that, both connection produce the same results, an IF signal output on the rear panl, whether it be through the 8 pin octal socket or by drilling a hole and mounting an RCA socket on the rear panel. There is a difference between the SM-220 820 IF UNIT modification and the

factory IF output. The factory IF OUT is "after" the crystal filters and the SM-220 modification is "before" the crystal filters. Again, the result is the same, the IF signal is made available at the rear panel.

I agree, the resistive voltage divider modification is required, never said it wasn't. However, I will add that if the IF output will never be fed to the pan adapter or any circuit that requires a lower signal level than the IF output provides, then the voltage divider network modification to the IF output on the 820 is not required. However, if, in the future, the BS-8 pan adapter is installed in the SM-220, the resistive voltage divider network will need to be installed. Installing it now will eliminate that step if the BS-8 is installed in the future. Whether the IF output is connected to a BS-8 or not or even if the IF output is connected to a vertical input whether it be to the SM-220 or an oscilloscope, having the voltage divider network installed will not affect the operation of the 820.

73
Mike
W5RKL

21440. RE: [TS-520_820_530_830] Re: TS-830S-Neutralization question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-13 17:11:12 UTC
From: Jim McPhee
Topic: 21417 Message: 21440

Mike,

Yes, the process calls for both the 830s transmitter, and the adjacent receiver, to be set on the same frequency. This is not an attempt to measure spurious emissions, it is the Kenwood documented process for eliminating or at least reducing spurious emissions when installing a new set of drivers.

Regards,

Jim McPhee
Placitas, NM
C23, Therapy
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Mike Rodgers
Sent: Saturday, June 13, 2009 3:40 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: TS-830S-Neutralization question

i am just a dummy here but i assume you do not have the kenwood set on 28.5?you did not say what frequency you were trying this process on.it seems to me this could work if the kenwood was set to a DIFFERENT frequency than the receiver.this may be obvious but measuring spurious emmision seems like would not work on the operating frequency. apoligize if i am showing my ignorance here.mike

--- On Fri, 6/12/09, jmcphee@comcast.net <mailto:jmcphee%40comcast.net> <jmcphee@... <mailto:jmcphee%40comcast.net> > wrote:

From: jmcphee@... <mailto:jmcphee%40comcast.net> <jmcphee@... <mailto:jmcphee%40comcast.net> >
Subject: Re: [TS-520_820_530_830] Re: TS-830S-Neutralization question
To: "TS-520 820 530 830" <TS-520_820_530_830@yahoogroups.com <mailto:TS-520_820_530_830%40yahoogroups.com> >
Date: Friday, June 12, 2009, 12:27 PM

Mike,

Thanks for your response. I tried to be very precise in describing the process I followed just so there would be no question about it, but let me try again.

I know what the purpose of the neutralization process is.

I followed the process (or the alternate process, perhaps) as defined in the instruction manual on page 28. I didn't make the process up.

The manual says, after describing how to proceed if you have a "sensitive RF milli-voltmeter" , and I quote:

"A receiver tuned to 28.5 MHz works very well for neutralizing if an RF voltmeter is not available. Instead of tuning for a minimum voltage, tune for a minimum S-meter reading."

An RF voltmeter is not available (no scope, either) , so I followed the above process. I did not adjust anything other than the neutralization pot (with a plastic screwdriver) once the transmitter was tuned up and I began the neutralization process. So, the question remains:

Rotation of the neutralization pot (TC-1) has no effect on the signal strength as displayed on the s-meter of a nearby receiver following the process outlined in the instruction manual. Does this indicate a problem?

Jim McPhee
Placitas, NM
KF5BNG

----- Original Message -----
From: "w5rkl" <w5rkl@yahoo. com>
To: "TS-520 820 530 830" <TS-520_820_530_ 830@yahoogroups. com>
Sent: Friday, June 12, 2009 10:52:41 AM GMT -07:00 US/Canada Mountain
Subject: [TS-520_820_ 530_830] Re: TS-830S-Neutralizat ion question

Hello Jim,

Neutralization is not about reducing the operating frequency
signal strength but rather reducing "spurious" signals that are
outside of the operating frequency. Using a separate receiver as an
indicator when neutralizing a final amplifier is not the route to
take and you will always see the same S meter reading on the
separate receiver when adjusting the neutralizing capacitor.

Your initial set up procedures are correct. However, once you
have tuned the radio up into a dummy load to full output, set the
"SG" switch to "OFF", you then connect an RF Probe that is connected
to a VTVM or a scope probe connected to a scope to the rear SO-239
center pin and ground to the chassis. At that point you key the
radio and adjust the neutralizing capacitor for a "minimum" reading
on the VTVM OR scope display. You do NOT re-adjust the DRIVE, VFO,
PLATE, and LOAD controls while neutralizing final amplifier,
ONLY the neutralizing capacitor inside the final amplifier cage
with a well insulated screw driver.

Mike W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com , jmcphee@... wrote:
>
>
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indicated that it was not his primary rig, but that he used it successfully immediately prior to my buying it. When I initially tried to tune up the transmitter output (peak the drive, dip the plate), I got erratic meter reading. I checked the tubes, and found that one of the 6146Bs had a rattle, apparently caused by â€œsomethingâ€? loose inside. Although the transceiver was well packed, I suspected the tube had been damaged in transit. I replaced both 6146Bs with a matched pair of 6146Ws from RFPARTS, and also replaced the driver tube. I then followed the neutralization process as shown on page 28 of the instruction manual:
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> 2. I set the SG switch off.
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> 4. Adjusted TC1 (at the bottom of the final section).
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> 5. I observed the s-meter on a nearby receiver.
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> a. Using the rf gain of that receiver I had previously aligned the meter with a reference point.
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> 6. The s-meter indicated a steady signal. It did not move while I rotated TC-1.
>
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>
>
> Jim McPhee
>
> Placitas, NM
>
> KF5BNG
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21441. Re: TS-830S-Neutralization question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-13 20:25:33 UTC
From: w5rkl
Topic: 21417 Message: 21441

Hello Jim,

I'm not doubting you and yes, I agree, it does say a separate
receiver tuned to 28.5Mhz can be used in place of an RF volt meter.
I've never used that method when neutralizing the final amplifier.
I've always used an RF probe connected to a VTVM or an oscilloscope,
connected to the center pin of the SO-239 and adjusted the
neutralizing cap for a minimum indication on the meter or scope.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Jim McPhee" <jmcphee@...> wrote:
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> Mike,
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> Yes, the process calls for both the 830s transmitter, and the adjacent receiver, to be set on the same frequency. This is not an attempt to measure spurious emissions, it is the Kenwood documented process for eliminating or at least reducing spurious emissions when installing a new set of drivers.
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> Sent: Saturday, June 13, 2009 3:40 AM
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> Subject: Re: [TS-520_820_530_830] Re: TS-830S-Neutralization question
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> Subject: Re: [TS-520_820_530_830] Re: TS-830S-Neutralization question

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> center pin and ground to the chassis. At that point you key the
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21442. Re: [TS-520_820_530_830] Re: TS-830S-Neutralization question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-13 20:51:24 UTC
From: richard
Topic: 21417 Message: 21442

```
On Sat, 13 Jun 2009 20:25:33 -0000
"w5rkl" <w5rkl@...> wrote:

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> I'm not doubting you and yes, I agree, it does say a separate
> receiver tuned to 28.5Mhz can be used in place of an RF volt meter.
> I've never used that method when neutralizing the final amplifier.
> I've always used an RF probe connected to a VTVM or an oscilloscope,
> connected to the center pin of the SO-239 and adjusted the
> neutralizing cap for a minimum indication on the meter or scope.
>
> Mike W5RKL
>
>
>

It sounds as if the receiver is receiving the signal radiated from
leakage from the EUT.
You could try connecting a short antenna to the SO-239 which will
increase the received signal level, but will at least be effected by
the level coming out of the EUT aerial connector.

You could also, if you have one, use a analog multimeter on the AC
range, the cheap ones only use a single small signal diode as a
rectifier. And if its one of the really cheap ones $5 from your local
hardware store, its small and the length of the internal wiring will be
short.I'm referring to the cheap analog handheld meters that are about
2"x 3" in size.

--
Best wishes

Richard Bown

##########################################################################################
Registered Linux User 36561
OS: Mandriva 2009.1 Spring Powerpack on an AMD Dual Athlon 64 +4400: 8
GB RAM DDR2 Ham Call: G8JVM , QRA IO82SP, Interests Microwave 1.3
GHz,2.3 GHz & 5.7GHz & 10 GHz
##########################################################################################
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21443. RE: [TS-520_820_530_830] Re: TS-830S-Neutralization question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-14 00:25:53 UTC
From: Lou Blasco
Topic: 21417 Message: 21443

Hi Jim,

Firstly to your delayed posts. I'm not sure if you're a new member or not but it could be that your membership has the "moderation" button selected. I had this with a couple of other Yahoo sites that I've joined. My posts would be delayed for hours or even days. After a few emails back and forth to the moderators it was finally sorted out. Seems there's something funny with the way Yahoo profiles are configured.

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Then I turned off the filaments and the SG switch and hit SEND. The signal was barely audible and the meter moved maybe half an S point (around S1). Next step was to remove the covers and go through the neutralization procedure. Well there it was. With the covers off I had an S7 signal on the receiver. I agree with Richard that the signal you're receiving is radiated from inside the 830 rather than the aerial connector of your 830.

I found the same thing you did. No matter where TC-1 was set the receiver showed the same signal strength. I then connected the RF millivolt meter in place of the AT200 and adjusted TC-1 for minimum output from the 520S. I measured less than 1mV into a 50 ohm termination. The S meter on the receiver did not move. The small adjustment made with TC-1 has no impact on the radiated signal from the unshielded 830.

My conclusion is that there is no way you can run the neutralization procedure with your test configuration.

So your original question was "Do I have a problem with my 830"? Probably not but you need to find a way to confirm that your PA is correctly neutralized. Is there any chance you could borrow a 'scope or RF voltmeter?

Regards

Lou
VK3ALB

At 13:49 13/06/2009, you wrote:
>Lou,
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>As I indicated, I am a novice at this, although I have some background in
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>bandwidth, connect it across the small 50 Ohm test load. A 20MHz scope will
>display 28 MHz adequately, although it won't accurately measure the RF
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>for minimum output.
>(5) Key the rig and observe the output voltage on your RF VTVM or Scope.
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>(6) Using an INSULATED tool, either plastic or a carved wooden dowel, tune
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>down to 10 millivolts or so. There is LOTS of voltage present, so don't
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>Same basic process, just a slightly lower 10 meter frequency with the option
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>with a goal of setting the neutralization pot so that the needle on the
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>point; in fact there was no deviation at all.
>
>Regards,
>
>Jim McPhee
>Placitas, NM
>C23, Therapy
>From: TS-520_820_530_830@yahoogroups.com
>[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Lou Blasco
>Sent: Friday, June 12, 2009 5:12 PM
>To: TS-520_820_530_830@yahoogroups.com
>Subject: Re: [TS-520_820_530_830] Re: TS-830S-Neutralization question
>
>
>
>
>
>
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>I can't explain why that procedure is in the book (maybe the PA is
>prone to spurii at 28.5MHz) but certainly a 'scope or RF voltmeter
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>gear from a local club or amateur?
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>receiver connected to the 830 or really just sitting nearby with no
>aerial connection?
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>As I write I'm thinking that even if you can't find a scope or RF
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> >Thanks for your response. I tried to be very precise in describing
> >the process I followed just so there would be no question about it,
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> >I know what the purpose of the neutralization process is.
> >
> >I followed the process (or the alternate process, perhaps) as
> >defined in the instruction manual on page 28. I didn't make the process up.
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21444. RE: [TS-520_820_530_830] Re: TS-830S-Neutralization question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-14 02:53:14 UTC
From: Jim McPhee
Topic: 21417 Message: 21444

Lou,

Yes, I am a new member, so maybe my posts are being "reviewed?" prior to being released to the forum. I'll be patient and hope that I'm given "trusted poster" status soon.

Wow. What can I say? You went to a lot of trouble to validate or invalidate Kenwood's (alternate) process. It sounds like the process of monitoring a signal on an adjacent receiver to set the lowest voltage of the neutralization circuit may be suspect.

I had a email off-line from another forum member who had the same experience you and I had. He elected to proceed to use his new tubes and has been transmitting successfully for several months now, perhaps(and I acknowledge this is not a scientific conclusion) indicating that the new tubes did not require any neutralization. The questions begs to be asked, is there a way to determine the success or failure of the neutralization process? How does one determine, with a high degree of certainty, that a transmitter is, or isn't, generating spurious emissions following the fitment of new final amp tubes. We know Kenwood thought enough of their process to document it in their manual, so maybe what we are seeing are situations where tubes are of such high quality or closely matched tolerances that neutralization is not an issue.

The process calls for the voltage to be set at the lowest measurable setting. What did you find to be the range between the highest measurable voltage and the lowest while having your meter connected? Was there a significant difference? Did you find that the base setting, before you adjusted TC-1, was the lowest, or did you end up at a different setting when you were done than when you began?

Once again, I'm glad you duplicated the process I followed and posted your results. Thanks for going to the trouble.

Regards,

Jim McPhee
Placitas, NM
KF5BNG
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Lou Blasco
Sent: Saturday, June 13, 2009 6:26 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: RE: [TS-520_820_530_830] Re: TS-830S-Neutralization question

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21445. Re: [TS-520_820_530_830] Re: TS-820S & SM-220

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-14 05:00:51 UTC
From: pmarkavage
Topic: 21383 Message: 21445

Mike:
Sorry I didn't respond sooner, but VHF contest is this weekend and, 6 meters has been hopping all day.

I'm going to respond to each paragraph directly under each paragraph. And, to all that may be reading this, and Mike correct me if I misinterpreted your position. Mike contends that the IF Output jack on the back of the TS-820/820S (I'm just going to use this model) can be connected to the input of the BS-8 to provide the pan adapter function in the SM-220. I say that this not true, and Kenwood, through their documentation, also says that this not true. Now, let's move down to the various paragraphs below. My responses will be preceded with "****#".

On Sat, 13 Jun 2009 16:46:19 -0000 "w5rkl" <w5rkl@...> writes:
>
Hello Pete,
>
You said: I may not have been as clear as I should have in my recent response regarding this topic.
I have read the SM-220 manual and I do not disagree, never did, that the SM-220 manual states the IF signal can be displayed by connecting it to the vertical input. What I did say was that by connecting the IF signal to the vertical input, the displayed IF signal will not be the same as the display produced by the BS-5 or BS-8 pan adapters but rather the IF signal level will be displayed. I agree it is possible to display SSB and CW wave forms by connecting the IF signal to the vertical input but the display is limited to the single signal present at 8.3Mhz IF frequency.

****1. I agree and note that this IF signal comes from the IF jack (labeled IF Output) in the back of the TS-820.

You said: As you know, the BS-5 or BS-8 pan adapters, when installed in the SM-220 and connected to the IF output, display a +/- 20Khz or +/- 100Khz snap shot of real time receive bandwidth of the receiver's selected band, including all the signals within the selected bandwidth. However, the display produced by the BS-5 or BS-8 is not possible when connecting the IF output signal to the SM-220's vertical input and setting the Function switch to OSC/RTTY. The SM-220 BS-5 and BS-8 pan adapters produce a display that is similar to other pan adapter scopes such as the Heathkit SB-620.

****2. The issue here is "IF output". Actually, per Kenwood's schematic drawings on the TS-820 and the SM-220 modification information I posted earlier, the BS-8 (for the TS-820) is connected to the TS-820's input side of the IF section. See further information in #5 below

You said: I also agree that the RF output wave forms of the exciter and linear amplifier can be displayed as stated in the SM-220 manual. This is basically the same as other monitor scopes such as the Heathkit SB-610 for example.

****3. Full agreement.

You said: You said early models of the 820 had 2 IF outputs on the rear, IF1 and IF2. That may be so, I can't say one way or the other. However, what I did say was, if the 820 already has an IF output then the modification on page 16 figure 8-6 is not required. The 520 mod is required since the 520 does not have an IF output.

****4. I actually said TS-830S, not the 820, has two IF connections (IF1 and IF2). One is on the input side of the IF section for connection to the BS-8 and the other is on the output side of the IF section for connection to the vertical input on the front panel of the SM-220.

You said: I agree, the IF tap should be made at the input to the detector. The 820 factory IF OUT along with the 520 modification shown on page 16 figure 8-5 does just that. However, the 820 modification on page 16 figure 8-6 does not connect to the detector's input but rather to the IF UNIT's PC board foil "RIF" connection which is the same as the IF UNIT's IF1 pin 1 plug. Having said that, both connection produce the same results, an IF signal output on the rear panel, whether it be through the 8 pin octal socket or by drilling a hole and mounting an RCA socket on the rear panel. There is a difference between the SM-220 820 IF UNIT modification and the factory IF output. The factory IF OUT is "after" the crystal filters and the SM-220 modification is "before" the crystal filters. Again, the result is the same, the IF signal is made available at the rear panel.

****5. Let me repeat this paragraph from the SM-220 operating manual: "The TS-520 and TS-820 series transceivers have no Pan Display output terminals. The coaxial cable supplied with the BS-5/BS-8 must be installed as follows...." This is on Page 16, Section 8.6 of the SM-220 manual. I also checked all the issues of the TS-820, 820S operating manuals, and they all showed the IF Output jack installed in the transceivers. The TS-820 was never without this jack but this jack was never for a connection to the BS-8.

The reason the modification shows the connection (for the pan display) to IF UNIT's PC board foil "RIF" connection is that you always want the pan adapter display to view the signals before they enter the IF chain. Since the pan adapters first came on the market in the 40's, the pan adapter signal pick-off point has always been the before the IF chain (early tube radios made the connection with a small cap connected to the mixer tube plate terminal. The mixer feeds the IF chain). This configuration is no different (conceptually) then what is in the TS-820 or 520 series. The input and output sides of the IF chain are completely different in terms of what type of signal you are looking for to drive pan adapter display(BS-8/BS-5) or the vertical input of the SM-220 (just to view single signal waveforms). The IF strip tailers the signal with

crystal/ceramic SSB or CW filters and/or modifies the overall response with transformers and/or R/C networks as it passes through the various sections. You really can't display a +/- 20Khz or +/- 100Khz snap shot of real time receive bandwidth on the SM-220 pan adapter display when you're trying to view it after it goes through a 2.4 KHz or 2.8 KHz SSB filter. The pan adapter connection at this output point (IF Output on the TS-820/820S) becomes somewhat meaningless, which is why you need to make the modification as described in the SM-220 operating manual.

You said: I agree, the resistive voltage divider modification is required, never said it wasn't. However, I will add that if the IF output will never be fed to the pan adapter or any circuit that requires a lower signal level than the IF output provides, then the voltage divider network modification to the IF output on the 820 is not required. However, if, in the future, the BS-8 pan adapter is installed in the SM-220, the resistive voltage divider network will need to be installed. Installing it now will eliminate that step if the BS-8 is installed in the future. Whether the IF output is connected to a BS-8 or not or even if the IF output is connected to a vertical input whether it be to the SM-220 or an oscilloscope, having the voltage divider network installed will not affect the operation of the 820.

****6. The reason for the voltage divider on the IF Output jack is that, without it, there is too high of a voltage signal level being connected to the vertical input of the SM-220. So, the two resistors provide a bit of attenuation. Remember, the IF Output jack is connected to the last stage of the IF amplifiers so the signal level is somewhat high.

You may or may not have seen this, but in the SM-220 operating manual, Figure 5.1, page 8, also shows the cabling from the IF Output jack on the rear of the TS-820S connected to the front panel vertical input connection. Obviously, if this jack was suitable for connection to the pan adapter, why didn't Kenwood mentioned this in the SM-220 operating manual. They specifically said in the SM-220 operating manual: "The TS-520 and TS-820 series transceivers have no Pan Display output terminals". Note, one could modify the TS-820 IF Output jack by removing the existing connections and adding the required modification for a BS-8 connection to this same jack rather then to the remote jack.

**** Sorry for the long dissertation but I felt it was important that we all get an understanding as to what connects to what and what are the ramifications if it's connected to the wrong what. Bottom line: pan adapters need to be connected to a point where the signal enters the first section of the receiver/transceiver IF chain and not at the output end of the IF chain. Anyway, that's my story and I'm sticking to it. Been SM-220 user since the late 70's.

Pete, wa2cwa

You said: 73 Mike W5RKL

21446. RE: [TS-520_820_530_830] Re: TS-830S-Neutralization question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-14 05:18:27 UTC
From: Lou Blasco
Topic: 21417 Message: 21446

Hi Jim,

The maximum voltage I had from my radio (original set of 2001's) was less than three mV into the 50 ohm load. I did find that the 'best' spot for TC-1 was a broad range of around 50% of it's rotation. Mine was already adjusted to minimum so there was no change before/after. I tried to see if the plates were meshed or not but I couldn't get the right viewing angle due to the cramped conditions. I recall in a previous life I had to work on 15kW pulsed amplifiers used in MRI service. Neutralization was the first step after the tube was changed. From memory, the best adjustment for those tubes was also pretty broad.

I doubt that tubes have changed that much that neutralization is no longer required. They're still built to the same specification as 20 - 30 or more years ago. It's possible that tube manufacturing tolerances are so close however that one set of tubes has the same characteristics as the next. In that case you 'might' get by without going through the neutralization step. I don't have a lot of practical experience with tube neutralization but I expect the danger is more likely to occur at full power on the higher bands where the small values of inter-electrode capacitance in the tubes come into play at the higher frequencies. Me, I wouldn't do it. Easy for me because I have the test gear to do the job.

How do you know if your neutralization is correct? You need to measure the leakage with no power applied to the PA. You could tune your receiver around the 10m band while you have the send switch on and see if you can hear other signals from the 830. Put all the covers on and listen around. I expect that the received signal on 28.5MHz should be quite low (S1 or less) and there should be nothing else.

If you really can't get a hold of some test equipment, do you at least have a multimeter? You could whip up a little rf probe adapter that although not accurate will probably give you at least some indication of RF at the aerial socket.

http://www.google.com.au/search?hl=en&safe=off&num=50&newwindow=1&q=rf+probe+circuit&btnG=Search&meta=

I tried connecting the receiver directly to the 520 via an attenuator & coax but the radiation from the 520 was getting into the radio from all over so it was impossible to use my receiver as some kind of selective volt meter. Probably says more about my receiver than it does about the testing technique.

Maybe someone else has other ideas about how you can complete this
task. It must be really frustrating considering this is normally a
two minute job.

Lou
VK3ALB

At 12:53 PM 14/06/2009, you wrote:
>Lou,
>
>Yes, I am a new member, so maybe my posts are being "reviewed?" prior to
>being released to the forum. I'll be patient and hope that I'm given
>"trusted poster" status soon.
>
>Wow. What can I say? You went to a lot of trouble to validate or
>invalidate Kenwood's (alternate) process. It sounds like the process of
>monitoring a signal on an adjacent receiver to set the lowest voltage of the
>neutralization circuit may be suspect.
>
>I had a email off-line from another forum member who had the same experience
>you and I had. He elected to proceed to use his new tubes and has been
>transmitting successfully for several months now, perhaps(and I acknowledge
>this is not a scientific conclusion) indicating that the new tubes did not
>require any neutralization. The questions begs to be asked, is there a way
>to determine the success or failure of the neutralization process? How does
>one determine, with a high degree of certainty, that a transmitter is, or
>isn't, generating spurious emissions following the fitment of new final amp
>tubes. We know Kenwood thought enough of their process to document it in
>their manual, so maybe what we are seeing are situations where tubes are of
>such high quality or closely matched tolerances that neutralization is not
>an issue.
>
>The process calls for the voltage to be set at the lowest measurable
>setting. What did you find to be the range between the highest measurable
>voltage and the lowest while having your meter connected? Was there a
>significant difference? Did you find that the base setting, before you
>adjusted TC-1, was the lowest, or did you end up at a different setting when
>you were done than when you began?
>
>Once again, I'm glad you duplicated the process I followed and posted your
>results. Thanks for going to the trouble.
>
>Regards,
>
>Jim McPhee
>Placitas, NM
>KF5BNG
>From: TS-520_820_530_830@yahoogroups.com
>[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Lou Blasco
>Sent: Saturday, June 13, 2009 6:26 PM
>To: TS-520_820_530_830@yahoogroups.com
>Subject: RE: [TS-520_820_530_830] Re: TS-830S-Neutralization question

>
>
>
>
>
>Hi Jim,
>
>Firstly to your delayed posts. I'm not sure if you're a new member or
>not but it could be that your membership has the "moderation" button
>selected. I had this with a couple of other Yahoo sites that I've
>joined. My posts would be delayed for hours or even days. After a few
>emails back and forth to the moderators it was finally sorted out.
>Seems there's something funny with the way Yahoo profiles are configured.
>
>On the topic of 28.5MHz, I think you're right, Kenwood know what
>they're doing. My suggestion to look for spurii with your receiver
>was plain nonsense. So I went out into the shack this morning and
>replicated your test configuration. I used a Kenwood 520S, a Kenwood
>R2000 receiver (no aerial and the SO-239 unterminated) and my AT200
>dummy load. I also prepared an electronic RF millivolt meter with 50
>ohm terminated load. The receiver was on the same desk as the 520S
>two feet away. I tuned up into the load and tuned the receiver so I
>could detect the signal (about S9 +20dB) with the SEND switch on.
>
>Then I turned off the filaments and the SG switch and hit SEND. The
>signal was barely audible and the meter moved maybe half an S point
>(around S1). Next step was to remove the covers and go through the
>neutralization procedure. Well there it was. With the covers off I
>had an S7 signal on the receiver. I agree with Richard that the
>signal you're receiving is radiated from inside the 830 rather than
>the aerial connector of your 830.
>
>I found the same thing you did. No matter where TC-1 was set the
>receiver showed the same signal strength. I then connected the RF
>millivolt meter in place of the AT200 and adjusted TC-1 for minimum
>output from the 520S. I measured less than 1mV into a 50 ohm
>termination. The S meter on the receiver did not move. The small
>adjustment made with TC-1 has no impact on the radiated signal from
>the unshielded 830.
>
>My conclusion is that there is no way you can run the neutralization
>procedure with your test configuration.
>
>So your original question was "Do I have a problem with my 830"?
>Probably not but you need to find a way to confirm that your PA is
>correctly neutralized. Is there any chance you could borrow a 'scope
>or RF voltmeter?
>
>Regards
>

>Lou
>VK3ALB
>
>At 13:49 13/06/2009, you wrote:
> >Lou,
> >
> >As I indicated, I am a novice at this, although I have some background in
> >radios and communications thanks to the USN some years back.
> >
> >The only deviation the "alternate" process takes from Kenwood's documented
> >"primary" process is to use the s-meter on the nearby receiver as opposed
>to
> >using a RF voltmeter. Why the Kenwood engineers specified 28.500 as the
> >frequency of choice for the neutralization process I sure don't know, BUT
> >I've got to think that if they could engineer a transceiver as good as
>these
> >hybrids that they knew what they were doing. There's only one
> >neutralization pot, and only 360 degrees on it, and no access port through
> >the bottom of the case (the case needs to be removed to access it) so you
> >have to make your adjustments before putting the case back on. How one
> >would make different adjustments(if that's what you're suggesting) between
> >10 and 160 meter bands I don't know. Seems like you "could" chase it all
> >over the place on the different bands. Tuning the pot to the lowest
> >voltage or signal level on another receiver is Kenwood's documented process
> >and the one I will follow until I know or am told of a better one.
> >
> >Here is the process that Ken at K4EAA.COM recommends on his website:
> >
> >How can I Neutralize my Finals?
> >Neutralization is the process of compensating for the inter-electrode
> >capacitance of the final tubes. It helps prevent the tubes from
> >oscillating, and allows them to perform as a stable amplifier. Here is a
> >simple sequence for neutralizing your finals:
> >(1) Tune up normally into a dummy load on 10M, perhaps 28.1 MHz
> >(2) Turn your SG (Screen Grid voltage) switch OFF. This effectively turns
> >off your finals, and will prevent them from putting any power into your
> >measurement setup.
> >(3) If your dummy load has external connections to monitor the RF it is
> >seeing, use those - Otherwise, remove the dummy load and replace it with a
> >50 ohm resistor (47 or 51 Ohms, 1/2W will work fine) that is mounted onto a
> >PL-259 Plug. During neutralization there is no significant power in the
> >load, so use what's handy.
> >(4) Using an RF millivoltmeter or oscilloscope with at least 20MHz
> >bandwidth, connect it across the small 50 Ohm test load. A 20MHz scope will
> >display 28 MHz adequately, although it won't accurately measure the RF
> >voltage present. That's OK, because when we neutralize, we're simply tuning
> >for minimum output.
> >(5) Key the rig and observe the output voltage on your RF VTVM or Scope.
> >This is the drive power "leaking through" to the load with the finals
> >inoperative. Our goal here is to minimize this leakage, and in doing so, we

> >will ne "neutralizing" the inter-electrode capacitance.
> >(6) Using an INSULATED tool, either plastic or a carved wooden dowel, tune
> >the neutralization capacitor for minimum output. You should be able to get
> >down to 10 millivolts or so. There is LOTS of voltage present, so don't
> >even THINK about using a metallic tool!! You will spark and arc and create
> >all manner of scarey fireworks if you do - Not to mention perhaps joining
> >the ranks of the SK's . . .
> >Don't forget to return your SG switch to ON for normal operation.
> >Same basic process, just a slightly lower 10 meter frequency with the
>option
> >of using a scope to tune for a minimum output.
> >
> >In answer to your question about the nearby receiver, it was truly that.
> >Sitting a couple of feet away with no physical connection. Once I had hit
> >the send switch on the 830S, the other receiver picked up the signal from
> >the 830S. I adjusted the RF gain on that other receiver to align the needle
> >with a reference point, say the s7 mark. My thinking was I would have a
> >reference point so I could watch for any deviation above or below that mark
> >with a goal of setting the neutralization pot so that the needle on the
> >other receiver was at its lowest point. Trouble is there was no lowest
> >point; in fact there was no deviation at all.
> >
> >Regards,
> >
> >Jim McPhee
> >Placitas, NM
> >C23, Therapy
> >From: TS-520_820_530_830@yahoogroups.com
><mailto:TS-520_820_530_830%40yahoogroups.com>
> >[mailto:TS-520_820_530_830@yahoogroups.com
><mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of Lou Blasco
> >Sent: Friday, June 12, 2009 5:12 PM
> >To: TS-520_820_530_830@yahoogroups.com
><mailto:TS-520_820_530_830%40yahoogroups.com>
> >Subject: Re: [TS-520_820_530_830] Re: TS-830S-Neutralization question
> >
> >
> >
> >
> >
> >Hi Jim,
> >
> >I understand the process you followed and why but imagine that your
> >PA was spurious at say 22MHz. Your receiver tuned to 28.5MHz wouldn't
> >(shouldn't) indicate anything. No matter how you adjust TC-1 your
> >testing arrangement would not help you to reduce the 22MHz spurious.
> >
> >I can't explain why that procedure is in the book (maybe the PA is
> >prone to spurii at 28.5MHz) but certainly a 'scope or RF voltmeter
> >would help confirm the PA was stable. Perhaps you can borrow some

> >gear from a local club or amateur?
> >
> >You indicate you've made some kind of reference measurement on your
> >receiver. What do you mean and does it change when you hit the send
> >switch. If so what do you read on receiver and transmit? Also, is the
> >receiver connected to the 830 or really just sitting nearby with no
> >aerial connection?
> >
> >As I write I'm thinking that even if you can't find a scope or RF
> >voltmeter you could use the receiver to look for spurrii by tuning up
> >and down the bands whilst toggling the send switch on the 830. Lots
> >more work for you but it should help put your mind at rest.
> >
> >Regards
> >
> >Lou
> >VK3ALB
> >
> >At 03:27 13/06/2009, you wrote:
> > >Mike,
> > >
> > >Thanks for your response. I tried to be very precise in describing
> > >the process I followed just so there would be no question about it,
> > >but let me try again.
> > >
> > >I know what the purpose of the neutralization process is.
> > >
> > >I followed the process (or the alternate process, perhaps) as
> > >defined in the instruction manual on page 28. I didn't make the process
>up.
> > >
> > >The manual says, after describing how to proceed if you have a
> > >"sensitive RF milli-voltmeter", and I quote:
> > >
> > >"A receiver tuned to 28.5 MHz works very well for neutralizing if an
> > >RF voltmeter is not available. Instead of tuning for a minimum
> > >voltage, tune for a minimum S-meter reading."
> > >
> > >An RF voltmeter is not available (no scope, either) , so I followed
> > >the above process. I did not adjust anything other than the
> > >neutralization pot (with a plastic screwdriver) once the transmitter
> > >was tuned up and I began the neutralization process. So, the question
> >remains:
> > >
> > >Rotation of the neutralization pot (TC-1) has no effect on the
> > >signal strength as displayed on the s-meter of a nearby receiver
> > >following the process outlined in the instruction manual. Does this
> > >indicate a problem?
> >
> >

> >
> >[Non-text portions of this message have been removed]
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> >
> >Yahoo! Groups Links
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21447. RE: [TS-520_820_530_830] Re: TS-830S-Neutralization question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-14 08:49:28 UTC
From: Gordon JC Pearce
Topic: 21417 Message: 21447

On Sun, 2009-06-14 at 15:18 +1000, Lou Blasco wrote:

> I doubt that tubes have changed that much that neutralization is no
> longer required. They're still built to the same specification as 20
> - 30 or more years ago. It's possible that tube manufacturing
> tolerances are so close however that one set of tubes has the same
> characteristics as the next. In that case you 'might' get by without
> going through the neutralization step. I don't have a lot of

My experience of audio valves is that the much-derided Eastern European EL34s are very tight these days - any two at random out of the box will be a closer match than the specially selected matched pairs available from Mullard a decade or two ago. If only they'd been available when I blew £25 of 1985 hard-earned pocket money on a matched pair of EL34s when I got my first valve guitar amp out of the disposal pile at school ;-)

> practical experience with tube neutralization but I expect the danger
> is more likely to occur at full power on the higher bands where the
> small values of inter-electrode capacitance in the tubes come into
> play at the higher frequencies. Me, I wouldn't do it. Easy for me
> because I have the test gear to do the job.

Since the instructions are pretty straightforward and the only thing you're unlikely to have is a suitable plastic screwdriver. On my TS-520 the neutralising trimmer was incredibly stiff. With the power off and PA supply discharged I spun it a few times with a steel screwdriver with an insulated shaft until 30-odd years of dried-up grease was spread around the cap bush. Then I trimmed and filed a thick acrylic knitting needle to a screwdriver point, and used that to adjust the neutralising as per the book.

I use an oscilloscope, hooked up with a PL259-to-BNC, 10base-2 T-piece and terminator and a short BNC cable (I knew I kept that old 10base-2 junk around for a reason). As I trimmed the neutralising, I also listened on my TH-F7E. The null was actually pretty audible - not too sharp, but deep. It was actually easier to listen to the RX and "tune for *minimum* smoke"...

> How do you know if your neutralization is correct? You need to

Am I right in thinking that one of the symptoms of a not-quite-neutralised PA is that the PLATE and LOAD interact, and need adjusted when you increase the power after switching from TUNE to CW? Mine was doing that, and then when I re-trimmed the neutralising it didn't do it as much - but it's back to its old tricks again.

Is it possible that the properties of the PA valves change a bit when they're first used? These are new old stock, so heaven knows how long they've been sitting around.

Gordon MM3YEQ

21448. Re: TS-820S & SM-220

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-14 16:48:19 UTC
From: w5rkl
Topic: 21383 Message: 21448

Morning Pete,

I haven't tried 6 meters mainly because I don't have an antenna
for 6. Anyway, good luck in the contest, I'm sure it will be fun.

First, for me at least, I enjoy discussions like this. We all can
learn from one another.

My understanding of how the IF signal and BS-5 or BS-8 worked
together to produce the +/- 20Khz or +/- 100Khz display was correct.
However, for some reason I had a mental block that prevented me
from seeing the requirement for the 820 mod. Therefore, after
reviewing the signal flow, what is contained in each IF signal
at various stages, the factory IF OUT verses SM-220 IF mod, and
with Pete's responses, it became quite clear what I was missing.
I agree the 820 mod is required to be made to the 820.

Discussions such as these are what ham radio is all about. Whether
we have a mental block, can't see the woods for the trees or if it
were a snake it would have bit me as it was in my case, or for what
ever reason, we all learn from discussions of this type. There is no
shame in acknowledging a mistake and it is not about ignorance or
stupidity but rather about learning and we all learn something new
everyday, whether we realize it or not.

Thank you Pete for helping me break the mental block and allowing me
to see what I simply didn't see initially! Good job Pete!

Have a great day and good luck in the contest.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, pmarkavage <pmarkavage@...> wrote:
>
> Mike:
> Sorry I didn't respond sooner, but VHF contest is this weekend and, 6
> meters has been hopping all day.
>
> I'm going to respond to each paragraph directly under each paragraph.
> And, to all that may be reading this, and Mike correct me if I
> misinterpreted your position. Mike contends that the IF Output jack on
> the back of the TS-820/820S (I'm just going to use this model) can be
> connected to the input of the BS-8 to provide the pan adapter function in
> the SM-220. I say that this not true, and Kenwood, through their
> documentation, also says that this not true. Now, let's move down to the
> various paragraphs below. My responses will be preceded with "****#".
>

> On Sat, 13 Jun 2009 16:46:19 -0000 "w5rkl" <w5rkl@...> writes:
> >
> Hello Pete,
> >
> You said: I may not have been as clear as I should have in my recent
> response regarding this topic.
> I have read the SM-220 manual and I do not disagree, never did, that the
> SM-220 manual states the IF signal can be displayed by connecting it to
> the vertical input. What I did say was that by connecting the IF signal
> to the vertical input, the displayed IF signal will not be the same as
> the display produced by the BS-5 or BS-8 pan adapters but rather the IF
> signal level will be displayed. I agree it is possible to display SSB and
> CW wave forms by connecting the IF signal to the vertical input but the
> display is limited to the single signal present at 8.3Mhz IF frequency.
>
> ****1. I agree and note that this IF signal comes from the IF jack
> (labeled IF Output) in the back of the TS-820.
>
> You said: As you know, the BS-5 or BS-8 pan adapters, when installed in
> the SM-220 and connected to the IF output, display a +/- 20Khz or +/-
> 100Khz snap shot of real time receive bandwidth of the receiver's
> selected band, including all the signals within the selected bandwidth.
> However, the display produced by the BS-5 or BS-8 is not possible when
> connecting the IF output signal to the SM-220's vertical input and
> setting the Function switch to OSC/RTTY. The SM-220 BS-5 and BS-8 pan
> adapters produce a display that is similar to other pan adapter scopes
> such as the Heathkit SB-620.
>
> ****2. The issue here is "IF output". Actually, per Kenwood's schematic
> drawings on the TS-820 and the SM-220 modification information I posted
> earlier, the BS-8 (for the TS-820) is connected to the TS-820's input
> side of the IF section. See further information in #5 below
>
> You said: I also agree that the RF output wave forms of the exciter and
> linear amplifier can be displayed as stated in the SM-220 manual. This is
> basically the same as other monitor scopes such as the Heathkit SB-610
> for example.
>
> ****3. Full agreement.
>
> You said: You said early models of the 820 had 2 IF outputs on the rear,
> IF1 and IF2. That may be so, I can't say one way or the other. However,
> what I did say was, if the 820 already has an IF output then the
> modification on page 16 figure 8-6 is not required. The 520 mod is
> required since the 520 does not have an IF output.
>
> ****4. I actually said TS-830S, not the 820, has two IF connections (IF1
> and IF2). One is on the input side of the IF section for connection to
> the BS-8 and the other is on the output side of the IF section for
> connection to the vertical input on the front panel of the SM-220.

>
> You said: I agree, the IF tap should be made at the input to the
> detector. The 820 factory IF OUT along with the 520 modification shown on
> page 16 figure 8-5 does just that. However, the 820 modification on page
> 16 figure 8-6 does not connect to the detector's input but rather to the
> IF UNIT's PC board foil "RIF" connection which is the same as the IF
> UNIT's IF1 pin 1 plug. Having said that, both connection produce the same
> results, an IF signal output on the rear panel, whether it be through the
> 8 pin octal socket or by drilling a hole and mounting an RCA socket on
> the rear panel. There is a difference between the SM-220 820 IF UNIT
> modification and the factory IF output. The factory IF OUT is "after" the
> crystal filters and the SM-220 modification is "before" the crystal
> filters. Again, the result is the same, the IF signal is made available
> at the rear panel.
>
> ****5. Let me repeat this paragraph from the SM-220 operating manual:
> "The TS-520 and TS-820 series transceivers have no Pan Display output
> terminals. The coaxial cable supplied with the BS-5/BS-8 must be
> installed as follows...." This is on Page 16, Section 8.6 of the SM-220
> manual. I also checked all the issues of the TS-820, 820S operating
> manuals, and they all showed the IF Output jack installed in the
> transceivers. The TS-820 was never without this jack but this jack was
> never for a connection to the BS-8.
>
> The reason the modification shows the connection (for the pan display) to
> IF UNIT's PC board foil "RIF" connection is that you always want the pan
> adapter display to view the signals before they enter the IF chain. Since
> the pan adapters first came on the market in the 40's, the pan adapter
> signal pick-off point has always been the before the IF chain (early tube
> radios made the connection with a small cap connected to the mixer tube
> plate terminal. The mixer feeds the IF chain). This configuration is no
> different (conceptually) then what is in the TS-820 or 520 series. The
> input and output sides of the IF chain are completely different in terms
> of what type of signal you are looking for to drive pan adapter
> display(BS-8/BS-5) or the vertical input of the SM-220 (just to view
> single signal waveforms). The IF strip tailers the signal with
> crystal/ceramic SSB or CW filters and/or modifies the overall response
> with transformers and/or R/C networks as it passes through the various
> sections. You really can't display a +/- 20Khz or +/- 100Khz snap shot
> of real time receive bandwidth on the SM-220 pan adapter display when
> you're trying to view it after it goes through a 2.4 KHz or 2.8 KHz SSB
> filter. The pan adapter connection at this output point (IF Output on
> the TS-820/820S) becomes somewhat meaningless, which is why you need to
> make the modification as described in the SM-220 operating manual.
>
> You said: I agree, the resistive voltage divider modification is
> required, never said it wasn't. However, I will add that if the IF output
> will never be fed to the pan adapter or any circuit that requires a lower
> signal level than the IF output provides, then the voltage divider
> network modification to the IF output on the 820 is not required.

> However, if, in the future, the BS-8 pan adapter is installed in the
> SM-220, the resistive voltage divider network will need to be installed.
> Installing it now will eliminate that step if the BS-8 is installed in
> the future. Whether the IF output is connected to a BS-8 or not or even
> if the IF output is connected to a vertical input whether it be to the
> SM-220 or an oscilloscope, having the voltage divider network installed
> will not affect the operation of the 820.
>
> ****6. The reason for the voltage divider on the IF Output jack is that,
> without it, there is too high of a voltage signal level being connected
> to the vertical input of the SM-220. So, the two resistors provide a bit
> of attenuation. Remember, the IF Output jack is connected to the last
> stage of the IF amplifiers so the signal level is somewhat high.
>
> You may or may not have seen this, but in the SM-220 operating manual,
> Figure 5.1, page 8, also shows the cabling from the IF Output jack on the
> rear of the TS-820S connected to the front panel vertical input
> connection. Obviously, if this jack was suitable for connection to the
> pan adapter, why didn't Kenwood mentioned this in the SM-220 operating
> manual. They specifically said in the SM-220 operating manual: "The
> TS-520 and TS-820 series transceivers have no Pan Display output
> terminals". Note, one could modify the TS-820 IF Output jack by removing
> the existing connections and adding the required modification for a BS-8
> connection to this same jack rather then to the remote jack.
>
> **** Sorry for the long dissertation but I felt it was important that we
> all get an understanding as to what connects to what and what are the
> ramifications if it's connected to the wrong what. Bottom line: pan
> adapters need to be connected to a point where the signal enters the
> first section of the receiver/transceiver IF chain and not at the output
> end of the IF chain. Anyway, that's my story and I'm sticking to it. Been
> SM-220 user since the late 70's.
>
> Pete, wa2cwa
>
>
>
> You said: 73 Mike W5RKL
>

21449. TS-830S Display blanks w/ VFO-230 in Tune mode

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-14 14:59:51 UTC
From: Dana
Topic: 21449 Message: 21449

I'm very happy I found this group. I have many questions, but my first question involves my VFO-230. Is it normal for the TS-830 display to blank in Tune mode if I am using the VFO-230? If I hit the "main" buttons on the VFO, the display returns on the 830.

Thanks for any help.
-- Dana, KA1WPM

21450. Re: problems alc on ts520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-14 13:03:36 UTC
From: vk4baz
Topic: 21430 Message: 21450

So basicly what this points to is that the finals could be sus ,I think its more than that the tubes are new driver is new and I am not getting output so what would be a good starting point to look for bar completely replace the if unit and the rf board havn't got a clue at this moment

-- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello Barry,
>
> ALC is a transmitter ONLY control voltage and is only produced
> when grid current flows in the final tubes.
>
> When the transmitter's driving signal causes the final tube
> grids to become positive, a current flows between the final tube
> cathodes and grids. When this occurs, the ALC circuit senses this
> and creates ALC voltage. The ALC voltage varies at the same rate
> as the RF driving signal. The ALC voltage is then fed back to
> an earlier stage, normally the transmitter's IF amplifier, causing
> a reduction in the IF amplifier's gain which ultimately results
> in a reduction in the final amplifier's output. ALC voltage works
> just like a receiver's AGC voltage does, controls the gain of the
> transmitter.
>
> If the level of ALC voltage fed back to the IF amplifier is equal
> to or less than the operating bias of the IF amplifier, no gain
> reduction in the IF amplifier occurs. Gain reduction in the IF
> amplifier ONLY occurs if the ALC voltage exceeds the operating bias
> of the IF amplifier and not until then.
>
> When the final tube grids become positive, gird current flows, and
> ALC voltage is produced, just as I state above. However, when
> this occurs, the final amplifier is no longer operating in a linear
> state and the output signal becomes distorted. ALC is designed to
> lower the gain of an earlier stage in order to allow the final
> amplifier to return to its linear state.
>
> The bottom line is, the lower the ALC indication the cleaner your
> signal will be.
>
> ALC is NOT used in CW because the transmitter's output level is
> "manually" controlled by the CAR control. The CAR control is used
> in both TUNE and CW modes but has absolutely no control what so
> ever in sideband (USB or LSB).
>
> ALC works like AGC does in a receiver, except it is produced

> ONLY in the transmitter, never in the receiver.
>
> Mike W5RKL
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@> wrote:
> >
> > Iam in need of help if possible, I resurrected a ts520s replaced the driver tube give it a receiver align ,mix osc ,I would like to do a drive coil align but my alc is not working on any band ,hv voltage is ok getting 850 approx what I really would like can anyone axplain what the alc does and where to start looking my knowledge on these old radios is about a 4 out of 10 I am hungry to know more thanking you
> >
> > barry
> >
>

21451. TS830 No RF out

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-14 15:04:49 UTC
From: rdmegargle
Topic: 21451 Message: 21451

TS-803S
This problem came on suddenly. The rig was working great, then the next day, I was unable to get any meter movement in Tune to peak the Drive, and low to zero RF output. The SG switch in "On"

When I start the tuning process, the only indication present is the 60 ma plate current reading. I can not get any ALC reading with the drive, or any increased RF output with the Load and Plate controls. HV readings are at 900 V

Following Mike's (W5RKL) suggestions ,
I replaced R2 ☐ R4 and R7 & R8 on the Final board (which was good advice since the values had moved out of tolerance). I also installed a new Driver Tube, replaced C7, C8 & L1 in the Final cage, triple checked the band switch alignment and replaced the cracked plastic shaft coupler.

Driver Tube Voltages
Pin/Rx/Tx
1/0/6.2
2/-42.3/0.3
7/335/297
8/246/209

Final Tube Voltages
Pin/Rx/Tx
1&4/0/0.33
3/252/237
5/-99/-55

Any additional suggestions? Maybe finals?

Russ K8AF

21452. Re: problems alc on ts520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-14 17:28:26 UTC
From: w5rkl
Topic: 21430 Message: 21452

Hello Barry,

I assume your statement of no ALC indication is in TUNE mode.
Since ALC is not used or indicated on the meter in CW mode, tuning
the 520 in CW mode requires using the IP meter setting. Place
the MODE switch in CW, flip the SEND switch UP and adjust the
DRIVE control for a peak indication on the meter. If a CW key
is plugged into the rear CW socket, pull that plug before flipping
the SEND switch UP. If you are able to tune the 520 in CW mode for
full output then I recommend the following:

Check R5 and R6 on the HV UNIT. If these resistors are bad, way
out of tolerance, the screen voltage in TUNE mode will be much lower
than it normally is in TUNE mode. This leads to very low or no ALC
indication on the meter in TUNE mode which results in the inability
to accurately tune the 520. R5 and R6 are 56K 1/2 watt resistor,
color coded Green Blue Orange. Replace them if they are out of
tolerance and check TUNE mode again.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@...> wrote:
>
> So basicly what this points to is that the finals could be sus ,I think its more than
that the tubes are new driver is new and I am not getting output so what would be a good
starting point to look for bar completely replace the if unit and the rf board havn't got a
clue at this moment
>
>
>
> -- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Hello Barry,
> >
> > ALC is a transmitter ONLY control voltage and is only produced
> > when grid current flows in the final tubes.
> >
> > When the transmitter's driving signal causes the final tube
> > grids to become positive, a current flows between the final tube
> > cathodes and grids. When this occurs, the ALC circuit senses this
> > and creates ALC voltage. The ALC voltage varies at the same rate
> > as the RF driving signal. The ALC voltage is then fed back to
> > an earlier stage, normally the transmitter's IF amplifier, causing
> > a reduction in the IF amplifier's gain which ultimately results
> > in a reduction in the final amplifier's output. ALC voltage works
> > just like a receiver's AGC voltage does, controls the gain of the

> > transmitter.
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> > If the level of ALC voltage fed back to the IF amplifier is equal
> > to or less than the operating bias of the IF amplifier, no gain
> > reduction in the IF amplifier occurs. Gain reduction in the IF
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> > of the IF amplifier and not until then.
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> > When the final tube grids become positive, gird current flows, and
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> > this occurs, the final amplifier is no longer operating in a linear
> > state and the output signal becomes distorted. ALC is designed to
> > lower the gain of an earlier stage in order to allow the final
> > amplifier to return to its linear state.
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> > The bottom line is, the lower the ALC indication the cleaner your
> > signal will be.
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> > ALC is NOT used in CW because the transmitter's output level is
> > "manually" controlled by the CAR control. The CAR control is used
> > in both TUNE and CW modes but has absolutely no control what so
> > ever in sideband (USB or LSB).
> >
> > ALC works like AGC does in a receiver, except it is produced
> > ONLY in the transmitter, never in the receiver.
> >
> > Mike W5RKL
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@> wrote:
> > >
> > > Iam in need of help if possible, I resurrected a ts520s replaced the driver tube give it a receiver align ,mix osc ,I would like to do a drive coil align but my alc is not working on any band ,hv voltage is ok getting 850 approx what I really would like can anyone axplain what the alc does and where to start looking my knowledge on these old radios is about a 4 out of 10 I am hungry to know more thanking you
> > >
> > > barry
> > >
> >
>

21453. Re: TS830 No RF out

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-14 17:32:42 UTC
From: w5rkl
Topic: 21451 Message: 21453

Hello Russ,

Check R15 and R16 on the Rectifier Unit, both are 56K 1/2 watt.
These resistor control the level of screen voltage applied to
the finals in TUNE mode. If these resistors significantly
change value, the level of final tube screen voltage can be much
less than normal in TUNE mode resulting in the symptoms you are
seeing.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "rdmegargle" <rdmegargle@...> wrote:
>
> TS-803S
> This problem came on suddenly. The rig was working great, then the next day, I was unable to get any meter movement in Tune to peak the Drive, and low to zero RF output. The SG switch in "On"
>
> When I start the tuning process, the only indication present is the 60 ma plate current reading. I can not get any ALC reading with the drive, or any increased RF output with the Load and Plate controls. HV readings are at 900 V
>
> Following Mike's (W5RKL) suggestions ,
> I replaced R2 ☐ R4 and R7 & R8 on the Final board (which was good advice since the values had moved out of tolerance). I also installed a new Driver Tube, replaced C7, C8 & L1 in the Final cage, triple checked the band switch alignment and replaced the cracked plastic shaft coupler.
>
> Driver Tube Voltages
> Pin/Rx/Tx
> 1/0/6.2
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> 7/335/297
> 8/246/209
>
> Final Tube Voltages
> Pin/Rx/Tx
> 1&4/0/0.33
> 3/252/237
> 5/-99/-55
>
> Any additional suggestions? Maybe finals?
>
> Russ K8AF
>

21454. Re: [TS-520_820_530_830] Re: TS-820S & SM-220

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-15 03:14:04 UTC
From: pmarkavage
Topic: 21383 Message: 21454

No problem Mike. Hopefully all the readers came away with a better understanding as to how to interface a pan adapter display to a transceiver/receiver. I've been a pan adapter user since the "good old days". My first one was a Hallicrafters SP-44, Skyrider Panoramic. Besides the SP-44, which is still here, I have the Heath HO-13 and SB-620. I've actually mated the SB-620 with the Kenwood R-599D and it works well. The Icom 756 PRO II also has a pan display and the Flex-5000 has a super wiz-bang pan display (see a pip - click the mouse over it and you're there). Once you have and use a pan adapter, you never go back.

Pete, wa2cwa

On Sun, 14 Jun 2009 16:48:19 -0000 "w5rkl" <w5rkl@...> writes:
> Morning Pete,
>
> I haven't tried 6 meters mainly because I don't have an antenna
> for 6. Anyway, good luck in the contest, I'm sure it will be fun.
>
> First, for me at least, I enjoy discussions like this. We all can
> learn from one another.
>
> My understanding of how the IF signal and BS-5 or BS-8 worked
> together to produce the +/- 20Khz or +/- 100Khz display was
> correct.
> However, for some reason I had a mental block that prevented me
> from seeing the requirement for the 820 mod. Therefore, after
> reviewing the signal flow, what is contained in each IF signal
> at various stages, the factory IF OUT verses SM-220 IF mod, and
> with Pete's responses, it became quite clear what I was missing.
> I agree the 820 mod is required to be made to the 820.
>
> Discussions such as these are what ham radio is all about. Whether
> we have a mental block, can't see the woods for the trees or if it
> were a snake it would have bit me as it was in my case, or for what
> ever reason, we all learn from discussions of this type. There is
> no
> shame in acknowledging a mistake and it is not about ignorance or
> stupidity but rather about learning and we all learn something new
> everyday, whether we realize it or not.
>
> Thank you Pete for helping me break the mental block and allowing
> me
> to see what I simply didn't see initially! Good job Pete!
>
> Have a great day and good luck in the contest.

>
> Mike W5RKL

21455. Re: problems alc on ts520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-15 09:39:45 UTC
From: vk4baz
Topic: 21430 Message: 21455

Mike,

I checked my high voltage board on the 520s measured the resistance on R5 and R6 R5 was 55k well yea,but I fell overbackwards R6 was and I am gobsmacked 11.90 mega ohms now I feel I am getting somewhere thanks to you mike ,all I gotta do now is order the 1/2 watters I will keep you posted to see how I get on

Barry,

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello Barry,
>
> I assume your statement of no ALC indication is in TUNE mode.
> Since ALC is not used or indicated on the meter in CW mode, tuning
> the 520 in CW mode requires using the IP meter setting. Place
> the MODE switch in CW, flip the SEND switch UP and adjust the
> DRIVE control for a peak indication on the meter. If a CW key
> is plugged into the rear CW socket, pull that plug before flipping
> the SEND switch UP. If you are able to tune the 520 in CW mode for
> full output then I recommend the following:
>
> Check R5 and R6 on the HV UNIT. If these resistors are bad, way
> out of tolerance, the screen voltage in TUNE mode will be much lower
> than it normally is in TUNE mode. This leads to very low or no ALC
> indication on the meter in TUNE mode which results in the inability
> to accurately tune the 520. R5 and R6 are 56K 1/2 watt resistor,
> color coded Green Blue Orange. Replace them if they are out of
> tolerance and check TUNE mode again.
>
>
> Mike W5RKL
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@> wrote:
> >
> > So basicly what this points to is that the finals could be sus ,I think its more than that the tubes are new driver is new and I am not getting output so what would be a good starting point to look for bar completely replace the if unit and the rf board havn't got a clue at this moment
> >
> >
> >
> > -- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > >

> > > Hello Barry,
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> > > ALC is a transmitter ONLY control voltage and is only produced
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> > > When the transmitter's driving signal causes the final tube
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> > > and creates ALC voltage. The ALC voltage varies at the same rate
> > > as the RF driving signal. The ALC voltage is then fed back to
> > > an earlier stage, normally the transmitter's IF amplifier, causing
> > > a reduction in the IF amplifier's gain which ultimately results
> > > in a reduction in the final amplifier's output. ALC voltage works
> > > just like a receiver's AGC voltage does, controls the gain of the
> > > transmitter.
> > >
> > > If the level of ALC voltage fed back to the IF amplifier is equal
> > > to or less than the operating bias of the IF amplifier, no gain
> > > reduction in the IF amplifier occurs. Gain reduction in the IF
> > > amplifier ONLY occurs if the ALC voltage exceeds the operating bias
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> > > When the final tube grids become positive, gird current flows, and
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> > > Mike W5RKL
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> > > --- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@> wrote:
> > > >
> > > > Iam in need of help if possible, I resurrected a ts520s replaced the driver tube
give it a receiver align ,mix osc ,I would like to do a drive coil align but my alc is not
working on any band ,hv voltage is ok getting 850 approx what I really would like can
anyone axplain what the alc does and where to start looking my knowledge on these old

radios is about a 4 out of 10 I am hungry to know more thanking you
> > > >
> > > > barry
> > > >
> > >
> >
>

21456. Re: problems alc on ts520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-15 12:01:58 UTC
From: w5rkl
Topic: 21430 Message: 21456

Barry,

You're very welcome, anytime. I'm sure once you replace R5 and R6 your
520 will work just fine. Of course that's assuming there is nothing
else wrong.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@...> wrote:
>
>
> Mike,
>
> I checked my high voltage board on the 520s measured the resistance on R5 and R6 R5 was 55k well yea,but I fell overbackwards R6 was and I am gobsmacked 11.90 mega ohms now I feel I am getting somewhere thanks to you mike ,all I gotta do now is order the 1/2 watters I will keep you posted to see how I get on
>
> Barry,
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Hello Barry,
> >
> > I assume your statement of no ALC indication is in TUNE mode.
> > Since ALC is not used or indicated on the meter in CW mode, tuning
> > the 520 in CW mode requires using the IP meter setting. Place
> > the MODE switch in CW, flip the SEND switch UP and adjust the
> > DRIVE control for a peak indication on the meter. If a CW key
> > is plugged into the rear CW socket, pull that plug before flipping
> > the SEND switch UP. If you are able to tune the 520 in CW mode for
> > full output then I recommend the following:
> >
> > Check R5 and R6 on the HV UNIT. If these resistors are bad, way
> > out of tolerance, the screen voltage in TUNE mode will be much lower
> > than it normally is in TUNE mode. This leads to very low or no ALC
> > indication on the meter in TUNE mode which results in the inability
> > to accurately tune the 520. R5 and R6 are 56K 1/2 watt resistor,
> > color coded Green Blue Orange. Replace them if they are out of
> > tolerance and check TUNE mode again.
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> >
> > Mike W5RKL
> >

> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@> wrote:
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> > > So basicly what this points to is that the finals could be sus ,I think its more than that the tubes are new driver is new and I am not getting output so what would be a good starting point to look for bar completely replace the if unit and the rf board havn't got a clue at this moment
> > >
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> > > > >
> > > > > barry
> > > > >
> > > >
> > >
> >
>

21457. Re: TS-820S & SM-220

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-15 12:08:16 UTC
From: w5rkl
Topic: 21383 Message: 21457

Hopefully so Pete. I have used the HO-13 with an old Mohawk RX1
receiver after modifying the RX1 for an IF output on the rear
panel. Once I performed the HO-13 alignment, it worked fine.

Have a good day Pete.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, pmarkavage <pmarkavage@...> wrote:
>
> No problem Mike. Hopefully all the readers came away with a better
> understanding as to how to interface a pan adapter display to a
> transceiver/receiver. I've been a pan adapter user since the "good old
> days". My first one was a Hallicrafters SP-44, Skyrider Panoramic.
> Besides the SP-44, which is still here, I have the Heath HO-13 and
> SB-620. I've actually mated the SB-620 with the Kenwood R-599D and it
> works well. The Icom 756 PRO II also has a pan display and the Flex-5000
> has a super wiz-bang pan display (see a pip - click the mouse over it and
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> Pete, wa2cwa
>
> On Sun, 14 Jun 2009 16:48:19 -0000 "w5rkl" <w5rkl@...> writes:
> > Morning Pete,
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> > I haven't tried 6 meters mainly because I don't have an antenna
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> > However, for some reason I had a mental block that prevented me
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> > everyday, whether we realize it or not.
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> > Thank you Pete for helping me break the mental block and allowing
> > me
> > to see what I simply didn't see initially! Good job Pete!
> >
> > Have a great day and good luck in the contest.
> >
> > Mike W5RKL
>

21458. Re: problems alc on ts520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-15 15:28:28 UTC
From: w5rkl
Topic: 21430 Message: 21458

Barry,

One more thing. The voltage drop across R6, at 11.9Meg, was extremely high which resulted in a significant reduction in the final tube's screen voltage in TUNE mode. As I said, replace both resistors with 56K 1/2 watt, even though only one was bad, then check the TUNE mode. Resistor's are cheap and by changing both, the voltage divider network will work as it should.

I'm sure, providing nothing else is wrong, once R5 and R6 are replaced, the 520 will work as it should. There should be more then enough drive to produce a full scale ALC meter indication in TUNE mode although I recommend no more than 3/4 peak reading in TUNE mode, controlled by the CAR control and DRIVE adjustment. When I say 3/4 scale, I do not mean the ALC meter scale. Use the top IP meter scale. Peaking the ALC in TUNE mode is a tuning aid ONLY and has nothing to do with the normal ALC indication during sideband operation.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@...> wrote:
>
>
> Mike,
>
> I checked my high voltage board on the 520s measured the resistance on R5 and R6 R5 was 55k well yea,but I fell overbackwards R6 was and I am gobsmacked 11.90 mega ohms now I feel I am getting somewhere thanks to you mike ,all I gotta do now is order the 1/2 watters I will keep you posted to see how I get on
>
> Barry,
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Hello Barry,
> >
> > I assume your statement of no ALC indication is in TUNE mode.
> > Since ALC is not used or indicated on the meter in CW mode, tuning
> > the 520 in CW mode requires using the IP meter setting. Place
> > the MODE switch in CW, flip the SEND switch UP and adjust the
> > DRIVE control for a peak indication on the meter. If a CW key
> > is plugged into the rear CW socket, pull that plug before flipping
> > the SEND switch UP. If you are able to tune the 520 in CW mode for

> > full output then I recommend the following:
> >
> > Check R5 and R6 on the HV UNIT. If these resistors are bad, way
> > out of tolerance, the screen voltage in TUNE mode will be much lower
> > than it normally is in TUNE mode. This leads to very low or no ALC
> > indication on the meter in TUNE mode which results in the inability
> > to accurately tune the 520. R5 and R6 are 56K 1/2 watt resistor,
> > color coded Green Blue Orange. Replace them if they are out of
> > tolerance and check TUNE mode again.
> >
> >
> > Mike W5RKL
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@> wrote:
> > >
> > > So basicly what this points to is that the finals could be sus ,I think its more than
that the tubes are new driver is new and I am not getting output so what would be a good
starting point to look for bar completely replace the if unit and the rf board havn't got a
clue at this moment
> > >
> > >
> > >
> > > -- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > > >
> > > > Hello Barry,
> > > >
> > > > ALC is a transmitter ONLY control voltage and is only produced
> > > > when grid current flows in the final tubes.
> > > >
> > > > When the transmitter's driving signal causes the final tube
> > > > grids to become positive, a current flows between the final tube
> > > > cathodes and grids. When this occurs, the ALC circuit senses this
> > > > and creates ALC voltage. The ALC voltage varies at the same rate
> > > > as the RF driving signal. The ALC voltage is then fed back to
> > > > an earlier stage, normally the transmitter's IF amplifier, causing
> > > > a reduction in the IF amplifier's gain which ultimately results
> > > > in a reduction in the final amplifier's output. ALC voltage works
> > > > just like a receiver's AGC voltage does, controls the gain of the
> > > > transmitter.
> > > >
> > > > If the level of ALC voltage fed back to the IF amplifier is equal
> > > > to or less than the operating bias of the IF amplifier, no gain
> > > > reduction in the IF amplifier occurs. Gain reduction in the IF
> > > > amplifier ONLY occurs if the ALC voltage exceeds the operating bias
> > > > of the IF amplifier and not until then.
> > > >
> > > > When the final tube grids become positive, gird current flows, and
> > > > ALC voltage is produced, just as I state above. However, when

> > > > this occurs, the final amplifier is no longer operating in a linear
> > > > state and the output signal becomes distorted. ALC is designed to
> > > > lower the gain of an earlier stage in order to allow the final
> > > > amplifier to return to its linear state.
> > > >
> > > > The bottom line is, the lower the ALC indication the cleaner your
> > > > signal will be.
> > > >
> > > > ALC is NOT used in CW because the transmitter's output level is
> > > > "manually" controlled by the CAR control. The CAR control is used
> > > > in both TUNE and CW modes but has absolutely no control what so
> > > > ever in sideband (USB or LSB).
> > > >
> > > > ALC works like AGC does in a receiver, except it is produced
> > > > ONLY in the transmitter, never in the receiver.
> > > >
> > > > Mike W5RKL
> > > >
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@> wrote:
> > > > >
> > > > > Iam in need of help if possible, I resurrected a ts520s replaced the driver tube
give it a receiver align ,mix osc ,I would like to do a drive coil align but my alc is not
working on any band ,hv voltage is ok getting 850 approx what I really would like can
anyone axplain what the alc does and where to start looking my knowledge on these old
radios is about a 4 out of 10 I am hungry to know more thanking you
> > > > >
> > > > > barry
> > > > >
> > > >
> > >
> >

21459. Lazy ALC meter on 10m

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-15 21:02:04 UTC
From: Neil McGrath
Topic: 21459 Message: 21459

When operating on 10m I notice that my audio distorts if I try to transmit within the normal ALC meter range. I also need to increase the mic gain to get a reading on the meter compared to other bands. The radio tunes up OK on this band and seems to work fine if I leave the mic gain set at the level I use for other bands but with hardly any ALC deflection. It seems that the ALC meter is just a bit lazy on this band. Any thoughts?

Neil

21460. Re: Lazy ALC meter on 10m

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-16 02:14:04 UTC
From: w5rkl
Topic: 21459 Message: 21460

Hello Neil,

The distortion you are experiencing is not due to the lack of ALC
but rather due to over driving the speech amplifier by turning the
MIC gain setting up too high. Turn the MIC gain down and I'm sure
your output signal quality will improve significantly.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Neil McGrath" <g7aqk.uk@...> wrote:
>
> When operating on 10m I notice that my audio distorts if I try to transmit within the normal ALC meter range. I also need to increase the mic gain to get a reading on the meter compared to other bands. The radio tunes up OK on this band and seems to work fine if I leave the mic gain set at the level I use for other bands but with hardly any ALC deflection. It seems that the ALC meter is just a bit lazy on this band. Any thoughts?
>
> Neil
>

21461. TS-820 IF Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-16 03:49:29 UTC
From: jsloss
Topic: 21461 Message: 21461

Need an IF board, w/ or w/o filter. Does anyone have a parts 820 lying around?

Joe k7mks

[Non-text portions of this message have been removed]

21462. Re: [TS-520_820_530_830] Re: TS830 No RF out

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-16 11:32:16 UTC
From: rjm dcm
Topic: 21451 Message: 21462

Thanks Mike. I checked R15 and R16 and they each show about 35K ohms. I'll replace them in the next day or two and report the results.
Russ

--- On Sun, 6/14/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: TS830 No RF out
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, June 14, 2009, 1:32 PM

Hello Russ,

Check R15 and R16 on the Rectifier Unit, both are 56K 1/2 watt.
These resistor control the level of screen voltage applied to
the finals in TUNE mode. If these resistors significantly
change value, the level of final tube screen voltage can be much
less than normal in TUNE mode resulting in the symptoms you are
seeing.

Mike W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, "rdmegargle" <rdmegargle@ ...> wrote:
>
> TS-803S
> This problem came on suddenly. The rig was working great, then the next day, I was unable to get any meter movement in Tune to peak the Drive, and low to zero RF output. The SG switch in "On"
>
> When I start the tuning process, the only indication present is the 60 ma plate current reading. I can not get any ALC reading with the drive, or any increased RF output with the Load and Plate controls. HV readings are at 900 V
>
> Following Mike's (W5RKL) suggestions ,
> I replaced R2 – R4 and R7 & R8 on the Final board (which was good advice since the values had moved out of tolerance). I also installed a new Driver Tube, replaced C7, C8 & L1 in the Final cage, triple checked the band switch alignment and replaced the cracked plastic shaft coupler.
>
> Driver Tube Voltages
> Pin/Rx/Tx
> 1/0/6.2
> 2/-42.3/0.3
> 7/335/297
> 8/246/209
>

> Final Tube Voltages
> Pin/Rx/Tx
> 1&4/0/0.33
> 3/252/237
> 5/-99/-55
>
> Any additional suggestions? Maybe finals?
>
> Russ K8AF
>

[Non-text portions of this message have been removed]

21463. Re: TS830 No RF out

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-16 12:43:32 UTC
From: w5rkl
Topic: 21451 Message: 21463

Hello Russ,

You can tune the 830 in CW mode. Follow the same procedures as
though you were in TUNE mode except place the MODE switch in CW
and the meter switch to IP. Adjust the DRIVE control for a peak
IP meter reading followed by adjusting the PLATE control for a
dip in IP meter reading. If a significant increase in RF output
is noted then replace R15 and R16 on the Rectifier Unit.

Keep transmission times to less than 10 seconds and IP meter readings
to less than 200ma while using this method.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, rjm dcm <rdmegargle@...> wrote:
>
> Thanks Mike. I checked R15 and R16 and they each show about 35K ohms. I'll replace them in the next day or two and report the results.
> Russ
>
> --- On Sun, 6/14/09, w5rkl <w5rkl@...> wrote:
>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: TS830 No RF out
> To: TS-520_820_530_830@yahoogroups.com
> Date: Sunday, June 14, 2009, 1:32 PM
>
>
>
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>
>
>
> Hello Russ,
>
> Check R15 and R16 on the Rectifier Unit, both are 56K 1/2 watt.
> These resistor control the level of screen voltage applied to
> the finals in TUNE mode. If these resistors significantly
> change value, the level of final tube screen voltage can be much
> less than normal in TUNE mode resulting in the symptoms you are
> seeing.
>
> Mike W5RKL

>
> --- In TS-520_820_530_ 830@yahoogroups. com, "rdmegargle" <rdmegargle@ ...> wrote:
> >
> > TS-803S
> > This problem came on suddenly. The rig was working great, then the next day, I was unable to get any meter movement in Tune to peak the Drive, and low to zero RF output. The SG switch in "On"
> >
> > When I start the tuning process, the only indication present is the 60 ma plate current reading. I can not get any ALC reading with the drive, or any increased RF output with the Load and Plate controls. HV readings are at 900 V
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> > Following Mike's (W5RKL) suggestions ,
> > I replaced R2 â□" R4 and R7 & R8 on the Final board (which was good advice since the values had moved out of tolerance). I also installed a new Driver Tube, replaced C7, C8 & L1 in the Final cage, triple checked the band switch alignment and replaced the cracked plastic shaft coupler.
> >
> > Driver Tube Voltages
> > Pin/Rx/Tx
> > 1/0/6.2
> > 2/-42.3/0.3
> > 7/335/297
> > 8/246/209
> >
> > Final Tube Voltages
> > Pin/Rx/Tx
> > 1&4/0/0.33
> > 3/252/237
> > 5/-99/-55
> >
> > Any additional suggestions? Maybe finals?
> >
> > Russ K8AF
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> [Non-text portions of this message have been removed]
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21464. Re: TS-820 IF Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-16 12:45:09 UTC
From: w5rkl
Topic: 21461 Message: 21464

Hello Joe,

What's wrong with the IF board you have? What symptoms are you observing
with the IF board you have?

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "jsloss" <k7mks@...> wrote:
>
> Need an IF board, w/ or w/o filter. Does anyone have a parts 820 lying around?
>
> Joe k7mks
>
> [Non-text portions of this message have been removed]
>

21465. Re: [TS-520_820_530_830] Re: TS-820 IF Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-16 14:22:18 UTC
From: jsloss
Topic: 21461 Message: 21465

Mike: With the IF board in TS-820S #1 there is extremely weak receive of the calibrator in CW and TUNE modes with the set in RCVE. There is no ALC or RF output in TUNE and no RF output in CW. Everything transmits and receives as it should in LSB/USB.

Installing a good IF board from another 820S everything works just as it should in receive and all position of the MODE switch.

When using the second known good 820S, both IF boards work correctly in all modes in receive and transmit!

My known good IF board works correctly in both 820S. The "bad" IF board works correctly in the known good 820S and not correctly in the other 820S which works correctly if I insert my known good board.

Got me going around in circles.

Joe k7mks

[Non-text portions of this message have been removed]

21466. Re: [TS-520_820_530_830] Re: TS-820 IF Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-16 16:10:36 UTC
From: pmarkavage
Topic: 21461 Message: 21466

Are the Part Numbers of the IF Board (X48-1150-XX) the same? It would also be wise to check the part numbers of the other boards that interface with the IF board through connectors IF1 through IF5. If reversing the boards in both 820's make both work properly, you could just move on. Picking and probing, and a wrong slip, could lead to a major failure. Over the years, I've learned, if I works, don't screw with it. It can be frustrating when you can't find the answer but sometimes things are like that.

Pete, wa2cwa

On Tue, 16 Jun 2009 07:22:18 -0700 "jsloss" <k7mks@...> writes:
> Mike: With the IF board in TS-820S #1 there is extremely weak
> receive of the calibrator in CW and TUNE modes with the set in
> RCVE. There is no ALC or RF output in TUNE and no RF output in CW.
> Everything transmits and receives as it should in LSB/USB.
>
>
> Installing a good IF board from another 820S everything works just
> as it should in receive and all position of the MODE switch.
>
> When using the second known good 820S, both IF boards work correctly
> in all modes in receive and transmit!
>
> My known good IF board works correctly in both 820S. The "bad" IF
> board works correctly in the known good 820S and not correctly in
> the other 820S which works correctly if I insert my known good
> board.
>
> Got me going around in circles.
>
> Joe k7mks

21467. Re: TS-820 IF Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-16 16:24:03 UTC
From: w5rkl
Topic: 21461 Message: 21467

Joe,

The bad IF board is working fine in USB or LSB but not in CW/TUNE modes sounds a lot like a filter selection problem in 820 #1.

Filter selection is accomplished based on a number of things.

1. Position of plug IF2 on the IF board
2. MODE switch position
3. 14VDC present to forward bias the filter selection diodes. The filter selection diodes on the IF board are as follows:

D5 and D6 for SSB filter selection
D7 and D8 for CW filter selection

I would check the position of plug IF2 and measure the voltages as follows:

1. Mode switch set to USB or LSB, IF2 plug pins 2 or 3 should show the presence of 14VDC.

2. Mode switch set to TUNE/CW, IF2 plug pins 4 or 5 should show the presence of 14VDC.

Failure to measure 14VDC on any of the above mentioned pins will cause the appropriate filter to not be selected and can result in the symptoms you are seeing.

I installed a CW filter in a friends TS-520SE. After making the wiring changes and installing the filter, all worked fine in all modes as long as I did not select NARROW on the WIDE/NARROW switch. If NARROW was selected, receive was almost nothing and RF output was very low, not even a watt, all same symptoms as you have.

The source of the problem was a broken lead on one of the CW filter select diodes. Once I fixed that, everything worked fine.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "jsloss" <k7mks@...> wrote:
>
> Mike: With the IF board in TS-820S #1 there is extremely weak receive of the calibrator in CW and TUNE modes with the set in RCVE. There is no ALC or RF output in TUNE and no RF output in CW. Everything transmits and receives as it should in LSB/USB.
>
>
> Installing a good IF board from another 820S everything works just as it should in receive and all position of the MODE switch.

>
> When using the second known good 820S, both IF boards work correctly in all modes in receive and transmit!
>
> My known good IF board works correctly in both 820S. The "bad" IF board works correctly in the known good 820S and not correctly in the other 820S which works correctly if I insert my known good board.
>
> Got me going around in circles.
>
> Joe k7mks
>
> [Non-text portions of this message have been removed]
>

21468. Re: TS-820 IF Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-16 16:29:10 UTC
From: w5rkl
Topic: 21461 Message: 21468

Good point, I agree. Check the board versions.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, pmarkavage <pmarkavage@...> wrote:
>
> Are the Part Numbers of the IF Board (X48-1150-XX) the same? It would
> also be wise to check the part numbers of the other boards that interface
> with the IF board through connectors IF1 through IF5. If reversing the
> boards in both 820's make both work properly, you could just move on.
> Picking and probing, and a wrong slip, could lead to a major failure.
> Over the years, I've learned, if I works, don't screw with it. It can be
> frustrating when you can't find the answer but sometimes things are like
> that.
>
> Pete, wa2cwa
>
> On Tue, 16 Jun 2009 07:22:18 -0700 "jsloss" <k7mks@...> writes:
> > Mike: With the IF board in TS-820S #1 there is extremely weak
> > receive of the calibrator in CW and TUNE modes with the set in
> > RCVE. There is no ALC or RF output in TUNE and no RF output in CW.
> > Everything transmits and receives as it should in LSB/USB.
> >
> >
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> > as it should in receive and all position of the MODE switch.
> >
> > When using the second known good 820S, both IF boards work correctly
> > in all modes in receive and transmit!
> >
> > My known good IF board works correctly in both 820S. The "bad" IF
> > board works correctly in the known good 820S and not correctly in
> > the other 820S which works correctly if I insert my known good
> > board.
> >
> > Got me going around in circles.
> >
> > Joe k7mks
>

21469. TS-820 Relays

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-16 16:46:20 UTC
From: w5rkl
Topic: 21469 Message: 21469

My 820 has a frequency stability problem that is not caused by the VFO shaft to frame connection. The stability problem results in the frequency "randomly", not all the time, jumping 3 to 5Khz up in frequency between transmit and receive. When this happens, if I briefly press the PTT button, the problem clears up. That lead me to believe the relay on the relay board could be a suspect.

I cleaned the relays, both inside and out, checked to ensure the contacts were not bent etc, but the problem is still there, again randomly.

All voltages are clean, no AC ripple, and measure what they should be.

Alignment has been performed according to the 820 service manual.

Anyone have a source other than what is in the FILES section of the forum? OMRON no longer sells that relay and MOUSER doesn't have a suggested replacement.

Mike W5RKL

21470. Re: [TS-520_820_530_830] TS-820 Relays

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-16 17:02:27 UTC
From: n6wk@n6wk.com
Topic: 21469 Message: 21470

Mike,
I wonder if the vibration from the relay cycling is somehow moving
another poor connection ??
I bought a relay for an 820 from someone here on the group a while back.
I think I still have it on the shelf, new in the box.
I'll look for it today.
73,
Gordon
N6WK

w5rkl wrote:
>
>
> My 820 has a frequency stability problem that is not caused by
> the VFO shaft to frame connection. The stability problem results in
> the frequency "randomly", not all the time, jumping 3 to 5Khz up
> in frequency between transmit and receive. When this happens,
> if I briefly press the PTT button, the problem clears up. That lead
> me to believe the relay on the relay board could be a suspect.
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> I cleaned the relays, both inside and out, checked to ensure the
> contacts were not bent etc, but the problem is still there, again
> randomly.
>
> All voltages are clean, no AC ripple, and measure what they should
> be.
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> Alignment has been performed according to the 820 service manual.
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> Anyone have a source other than what is in the FILES section of
> the forum? OMRON no longer sells that relay and MOUSER doesn't have
> a suggested replacement.
>
> Mike W5RKL
>
>

21471. Re: [TS-520_820_530_830] Re: TS830 No RF out

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-16 18:14:59 UTC
From: rjm dcm
Topic: 21451 Message: 21471

I've actually tried that procedure with no results (except for the 60ma plate reading).

--- On Tue, 6/16/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: TS830 No RF out
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, June 16, 2009, 8:43 AM

Hello Russ,

You can tune the 830 in CW mode. Follow the same procedures as
though you were in TUNE mode except place the MODE switch in CW
and the meter switch to IP. Adjust the DRIVE control for a peak
IP meter reading followed by adjusting the PLATE control for a
dip in IP meter reading. If a significant increase in RF output
is noted then replace R15 and R16 on the Rectifier Unit.

Keep transmission times to less than 10 seconds and IP meter readings
to less than 200ma while using this method.

Mike W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, rjm dcm <rdmegargle@ ...> wrote:
>
> Thanks Mike. I checked R15 and R16 and they each show about 35K ohms. I'll replace them
in the next day or two and report the results.
> Russ
>
> --- On Sun, 6/14/09, w5rkl <w5rkl@...> wrote:
>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_ 530_830] Re: TS830 No RF out
> To: TS-520_820_530_ 830@yahoogroups. com
> Date: Sunday, June 14, 2009, 1:32 PM
>
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> Hello Russ,
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> Check R15 and R16 on the Rectifier Unit, both are 56K 1/2 watt.

> These resistor control the level of screen voltage applied to
> the finals in TUNE mode. If these resistors significantly
> change value, the level of final tube screen voltage can be much
> less than normal in TUNE mode resulting in the symptoms you are
> seeing.
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> Mike W5RKL
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> --- In TS-520_820_530_ 830@yahoogroups. com, "rdmegargle" <rdmegargle@ ...> wrote:
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> > TS-803S
> > This problem came on suddenly. The rig was working great, then the next day, I was unable to get any meter movement in Tune to peak the Drive, and low to zero RF output. The SG switch in "On"
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> > When I start the tuning process, the only indication present is the 60 ma plate current reading. I can not get any ALC reading with the drive, or any increased RF output with the Load and Plate controls. HV readings are at 900 V
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> > Following Mike's (W5RKL) suggestions ,
> > I replaced R2 â€" R4 and R7 & R8 on the Final board (which was good advice since the values had moved out of tolerance). I also installed a new Driver Tube, replaced C7, C8 & L1 in the Final cage, triple checked the band switch alignment and replaced the cracked plastic shaft coupler.
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> > Driver Tube Voltages
> > Pin/Rx/Tx
> > 1/0/6.2
> > 2/-42.3/0.3
> > 7/335/297
> > 8/246/209
> >
> > Final Tube Voltages
> > Pin/Rx/Tx
> > 1&4/0/0.33
> > 3/252/237
> > 5/-99/-55
> >
> > Any additional suggestions? Maybe finals?
> >
> > Russ K8AF
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21472. Re: [TS-520_820_530_830] Re: TS830 No RF out

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-16 18:25:26 UTC
From: Ken Winterling
Topic: 21451 Message: 21472

Russ,

It has been a while since I had a TS-830 but I believe you would need to
turn on the VOX and close the CW key to make it transmit in the CW mode.

Ken, WA2LBI

On Tue, Jun 16, 2009 at 14:14, rjm dcm <rdmegargle@yahoo.com> wrote:

> I've actually tried that procedure with no results (except for the 60ma
> plate reading).
>
> --- On Tue, 6/16/09, w5rkl <w5rkl@yahoo.com> wrote:
>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: TS830 No RF out
> To: TS-520_820_530_830@yahoogroups.com
> Date: Tuesday, June 16, 2009, 8:43 AM
>
>
> Hello Russ,
>
> You can tune the 830 in CW mode. Follow the same procedures as
> though you were in TUNE mode except place the MODE switch in CW
> and the meter switch to IP. Adjust the DRIVE control for a peak
> IP meter reading followed by adjusting the PLATE control for a
> dip in IP meter reading. If a significant increase in RF output
> is noted then replace R15 and R16 on the Rectifier Unit.
>
> Keep transmission times to less than 10 seconds and IP meter readings
> to less than 200ma while using this method.
>
> Mike W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com, rjm dcm <rdmegargle@ ...>
> wrote:
> >
> > Thanks Mike. I checked R15 and R16 and they each show about 35K ohms.
> I'll replace them in the next day or two and report the results.
> > Russ
> >
> > --- On Sun, 6/14/09, w5rkl <w5rkl@...> wrote:
> >
> >
> > From: w5rkl <w5rkl@...>

> > Subject: [TS-520_820_ 530_830] Re: TS830 No RF out
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Date: Sunday, June 14, 2009, 1:32 PM
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> >
> > Hello Russ,
> >
> > Check R15 and R16 on the Rectifier Unit, both are 56K 1/2 watt.
> > These resistor control the level of screen voltage applied to
> > the finals in TUNE mode. If these resistors significantly
> > change value, the level of final tube screen voltage can be much
> > less than normal in TUNE mode resulting in the symptoms you are
> > seeing.
> >
> > Mike W5RKL
> >
> > --- In TS-520_820_530_ 830@yahoogroups. com, "rdmegargle" <rdmegargle@...> wrote:
> > >
> > > TS-803S
> > > This problem came on suddenly. The rig was working great, then the next
> day, I was unable to get any meter movement in Tune to peak the Drive, and
> low to zero RF output. The SG switch in "On"
> > >
> > > When I start the tuning process, the only indication present is the 60
> ma plate current reading. I can not get any ALC reading with the drive, or
> any increased RF output with the Load and Plate controls. HV readings are at
> 900 V
> > >
> > > Following Mike's (W5RKL) suggestions ,
> > > I replaced R2 â€" R4 and R7 & R8 on the Final board (which was good
> advice since the values had moved out of tolerance). I also installed a new
> Driver Tube, replaced C7, C8 & L1 in the Final cage, triple checked the band
> switch alignment and replaced the cracked plastic shaft coupler.
> > >
> > > Driver Tube Voltages
> > > Pin/Rx/Tx
> > > 1/0/6.2
> > > 2/-42.3/0.3
> > > 7/335/297
> > > 8/246/209
> > >
> > > Final Tube Voltages
> > > Pin/Rx/Tx
> > > 1&4/0/0.33

> > > 3/252/237
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> > > Any additional suggestions? Maybe finals?
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> > > Russ K8AF
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21473. Re: TS-820 Relays

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-16 19:05:55 UTC
From: w5rkl
Topic: 21469 Message: 21473

Gordon,

It's possible vibration may be causing the problem. I'll check it out
further to see what I can find. Thanks for the tip.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, n6wk@... wrote:
>
> Mike,
> I wonder if the vibration from the relay cycling is somehow moving
> another poor connection ??
> I bought a relay for an 820 from someone here on the group a while back.
> I think I still have it on the shelf, new in the box.
> I'll look for it today.
> 73,
> Gordon
> N6WK
>
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>
> w5rkl wrote:
> >
> >
> > My 820 has a frequency stability problem that is not caused by
> > the VFO shaft to frame connection. The stability problem results in
> > the frequency "randomly", not all the time, jumping 3 to 5Khz up
> > in frequency between transmit and receive. When this happens,
> > if I briefly press the PTT button, the problem clears up. That lead
> > me to believe the relay on the relay board could be a suspect.
> >
> > I cleaned the relays, both inside and out, checked to ensure the
> > contacts were not bent etc, but the problem is still there, again
> > randomly.
> >
> > All voltages are clean, no AC ripple, and measure what they should
> > be.
> >
> > Alignment has been performed according to the 820 service manual.
> >
> > Anyone have a source other than what is in the FILES section of
> > the forum? OMRON no longer sells that relay and MOUSER doesn't have
> > a suggested replacement.

> >
> > Mike W5RKL
> >
> >
>

21474. Re: TS830 No RF out

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-16 19:16:12 UTC
From: w5rkl
Topic: 21451 Message: 21474

Then the problem may not be R15 or R16.

If receive is OK then the problem is associated with transmit only circuit(s). Check for the presence of the "TIF" frequency at the input to the RF Unit, plug 7 pin 2. If the TIF frequency is there then check for the operating frequency at the output of the double mixer, Q6 an Q7 on the RF unit, at the driver tube's grid through capacitor C69, 150pf.

Just a few suggestions.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, rjm dcm <rdmegargle@...> wrote:
>
> I've actually tried that procedure with no results (except for the 60ma plate reading).
>
> --- On Tue, 6/16/09, w5rkl <w5rkl@...> wrote:
>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: TS830 No RF out
> To: TS-520_820_530_830@yahoogroups.com
> Date: Tuesday, June 16, 2009, 8:43 AM
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> Hello Russ,
>
> You can tune the 830 in CW mode. Follow the same procedures as
> though you were in TUNE mode except place the MODE switch in CW
> and the meter switch to IP. Adjust the DRIVE control for a peak
> IP meter reading followed by adjusting the PLATE control for a
> dip in IP meter reading. If a significant increase in RF output
> is noted then replace R15 and R16 on the Rectifier Unit.
>
> Keep transmission times to less than 10 seconds and IP meter readings
> to less than 200ma while using this method.
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> Mike W5RKL

>
> --- In TS-520_820_530_ 830@yahoogroups. com, rjm dcm <rdmegargle@ ...> wrote:
> >
> > Thanks Mike. I checked R15 and R16 and they each show about 35K ohms. I'll replace them in the next day or two and report the results.
> > Russ
> >
> > --- On Sun, 6/14/09, w5rkl <w5rkl@> wrote:
> >
> >
> > From: w5rkl <w5rkl@>
> > Subject: [TS-520_820_ 530_830] Re: TS830 No RF out
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Date: Sunday, June 14, 2009, 1:32 PM
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> > Hello Russ,
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> > Check R15 and R16 on the Rectifier Unit, both are 56K 1/2 watt.
> > These resistor control the level of screen voltage applied to
> > the finals in TUNE mode. If these resistors significantly
> > change value, the level of final tube screen voltage can be much
> > less than normal in TUNE mode resulting in the symptoms you are
> > seeing.
> >
> > Mike W5RKL
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> > --- In TS-520_820_530_ 830@yahoogroups. com, "rdmegargle" <rdmegargle@ ...> wrote:
> > >
> > > TS-803S
> > > This problem came on suddenly. The rig was working great, then the next day, I was unable to get any meter movement in Tune to peak the Drive, and low to zero RF output. The SG switch in "On"
> > >
> > > When I start the tuning process, the only indication present is the 60 ma plate current reading. I can not get any ALC reading with the drive, or any increased RF output with the Load and Plate controls. HV readings are at 900 V
> > >
> > > Following Mike's (W5RKL) suggestions ,
> > > I replaced R2 Ã¢â□¬" R4 and R7 & R8 on the Final board (which was good advice since the values had moved out of tolerance). I also installed a new Driver Tube, replaced C7, C8 & L1 in the Final cage, triple checked the band switch alignment and replaced the cracked plastic shaft coupler.
> > >
> > > Driver Tube Voltages
> > > Pin/Rx/Tx

> > > 1/0/6.2
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21475. Re: [TS-520_820_530_830] Re: TS830 No RF out

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-16 19:31:37 UTC
From: rjm dcm
Topic: 21451 Message: 21475

Thnaks, I'll start there. The rig receives fine, it is only a tx problem

--- On Tue, 6/16/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: TS830 No RF out
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, June 16, 2009, 3:16 PM

Then the problem may not be R15 or R16.

If receive is OK then the problem is associated with transmit only
circuit(s). Check for the presence of the "TIF" frequency at the
input to the RF Unit, plug 7 pin 2. If the TIF frequency is there
then check for the operating frequency at the output of the double
mixer, Q6 an Q7 on the RF unit, at the driver tube's grid through
capacitor C69, 150pf.

Just a few suggestions.

Mike W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, rjm dcm <rdmegargle@ ...> wrote:
>
> I've actually tried that procedure with no results (except for the 60ma plate reading).
>
> --- On Tue, 6/16/09, w5rkl <w5rkl@...> wrote:
>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_ 530_830] Re: TS830 No RF out
> To: TS-520_820_530_ 830@yahoogroups. com
> Date: Tuesday, June 16, 2009, 8:43 AM
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> Hello Russ,
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> Mike W5RKL
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> > Subject: [TS-520_820_ 530_830] Re: TS830 No RF out
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Date: Sunday, June 14, 2009, 1:32 PM
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> > --- In TS-520_820_530_ 830@yahoogroups. com, "rdmegargle" <rdmegargle@ ...> wrote:
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> > > TS-803S
> > > This problem came on suddenly. The rig was working great, then the next day, I was unable to get any meter movement in Tune to peak the Drive, and low to zero RF output. The SG switch in "On"
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21476. Re: [TS-520_820_530_830] Re: TS830 No RF out

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-16 19:34:27 UTC
From: rjm dcm
Topic: 21451 Message: 21476

Thanks Ken, I'll double check to make sure I'm doing this correctly. Your suggestion is greatly appreciated.--Russ

--- On Tue, 6/16/09, Ken Winterling <wa2lbi@...> wrote:

From: Ken Winterling <wa2lbi@frontiernet.net>
Subject: Re: [TS-520_820_530_830] Re: TS830 No RF out
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, June 16, 2009, 2:25 PM

Russ,

It has been a while since I had a TS-830 but I believe you would need to
turn on the VOX and close the CW key to make it transmit in the CW mode.

Ken, WA2LBI

On Tue, Jun 16, 2009 at 14:14, rjm dcm <rdmegargle@yahoo. com> wrote:

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> plate reading).
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> --- On Tue, 6/16/09, w5rkl <w5rkl@yahoo. com> wrote:
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> Subject: [TS-520_820_ 530_830] Re: TS830 No RF out
> To: TS-520_820_530_ 830@yahoogroups. com
> Date: Tuesday, June 16, 2009, 8:43 AM
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> Mike W5RKL
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> > Subject: [TS-520_820_ 530_830] Re: TS830 No RF out
> > To: TS-520_820_530_ 830@yahoogroups. com
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> > > TS-803S
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21477. Re: [TS-520_820_530_830] Re: TS-820 IF Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-16 20:27:31 UTC
From: jsloss
Topic: 21461 Message: 21477

Mike: I should have mentioned that the bad IF board worked fine in all respects, in its original 820, until the day I did a quick check before selling the radio. Then it started acting up.

Board numbers end with -53 for the good IF that works in both 820's and -43 that only in one 820. (Thanks for the board number suggestion Pete)

There is the correct USB/LSB switching voltage on IF2 pins 2/3 and TUNE/CW mode pins 4/5 when checking both IF boards.

The bad IF board worked fine once in its original 820 and now it doesnt. It does, however, work just fine in my other 820.

That perplexes me!

Joe k7mks

[Non-text portions of this message have been removed]

21478. TS-520S on Ebay... Cheap!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-16 21:23:42 UTC
From: Ron
Topic: 21478 Message: 21478

Check it out... http://cgi.ebay.com/Kenwood-TS-520S-Tranceiver_W0QQcmdZViewItemQQ_trkparms
Z65Q3a12Q7c66Q3a2Q7c39Q3a1Q7c72Q3a1234Q7c240Q3a1318Q7c301Q3a1Q7c293Q3a1Q7c294Q3a50QQ_trksi
dZp3286Q2ec0Q2em14QQhashZitem4ce9af574bQQitemZ330338096971QQptZLHQ5fDefaultDomainQ5f0QQsal
enotsupported

21479. Re: TS-820 Relays

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-16 23:13:11 UTC
From: Gordon
Topic: 21469 Message: 21479

Mike,
I found the relay. Still New in a sealed package.
if you need it, just drop me an email.

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Gordon,
>
> It's possible vibration may be causing the problem. I'll check it out
> further to see what I can find. Thanks for the tip.
>
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com, n6wk@ wrote:
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> > Mike,
> > I wonder if the vibration from the relay cycling is somehow moving
> > another poor connection ??
> > I bought a relay for an 820 from someone here on the group a while back.
> > I think I still have it on the shelf, new in the box.
> > I'll look for it today.
> > 73,
> > Gordon
> > N6WK
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> > > My 820 has a frequency stability problem that is not caused by
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> > > in frequency between transmit and receive. When this happens,
> > > if I briefly press the PTT button, the problem clears up. That lead
> > > me to believe the relay on the relay board could be a suspect.
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> > > I cleaned the relays, both inside and out, checked to ensure the
> > > contacts were not bent etc, but the problem is still there, again

> > > randomly.
> > >
> > > All voltages are clean, no AC ripple, and measure what they should
> > > be.
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> > > Alignment has been performed according to the 820 service manual.
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> > > Anyone have a source other than what is in the FILES section of
> > > the forum? OMRON no longer sells that relay and MOUSER doesn't have
> > > a suggested replacement.
> > >
> > > Mike W5RKL
> > >
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> >
>

21480. Re: TS-820 Relays

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-17 01:21:49 UTC
From: w5rkl
Topic: 21469 Message: 21480

Thanks Gordon, I really appreciate that.

For now, I'm going to pull the CAR and PLL UNIT's, clean the
interconnecting pins and sockets, clean and check all the
connecting plugs and pins, clean all chassis grounds and tighen
all mounting screws then check the output again. There might be an
intermittent connection there some where that is causing the problem.
At the moment, I do not believe the VFO is contributing to the
problem but it's easy enough to check.

Always fun to work on the hybrids, they can really work the old
gray matter. Will let you know what I find.

Again, thank you Gordon.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Mike,
> I found the relay. Still New in a sealed package.
> if you need it, just drop me an email.
>
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Gordon,
> >
> > It's possible vibration may be causing the problem. I'll check it out
> > further to see what I can find. Thanks for the tip.
> >
> > Mike W5RKL
> >
> > --- In TS-520_820_530_830@yahoogroups.com, n6wk@ wrote:
> > >
> > > Mike,
> > > I wonder if the vibration from the relay cycling is somehow moving
> > > another poor connection ??
> > > I bought a relay for an 820 from someone here on the group a while back.
> > > I think I still have it on the shelf, new in the box.
> > > I'll look for it today.
> > > 73,
> > > Gordon
> > > N6WK

> > >
> > >
> > >
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> > >
> > >
> > > w5rkl wrote:
> > > >
> > > >
> > > > My 820 has a frequency stability problem that is not caused by
> > > > the VFO shaft to frame connection. The stability problem results in
> > > > the frequency "randomly", not all the time, jumping 3 to 5Khz up
> > > > in frequency between transmit and receive. When this happens,
> > > > if I briefly press the PTT button, the problem clears up. That lead
> > > > me to believe the relay on the relay board could be a suspect.
> > > >
> > > > I cleaned the relays, both inside and out, checked to ensure the
> > > > contacts were not bent etc, but the problem is still there, again
> > > > randomly.
> > > >
> > > > All voltages are clean, no AC ripple, and measure what they should
> > > > be.
> > > >
> > > > Alignment has been performed according to the 820 service manual.
> > > >
> > > > Anyone have a source other than what is in the FILES section of
> > > > the forum? OMRON no longer sells that relay and MOUSER doesn't have
> > > > a suggested replacement.
> > > >
> > > > Mike W5RKL
> > > >
> > > >
> > > >
> > >
>

21481. Re: TS-820 Relays

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-17 03:27:28 UTC
From: w5rkl
Topic: 21469 Message: 21481

Evening Gordon,

I completed the cleaning of the PLL and CAR Units and it appears
the 820 is stable. Tapping on the cabinet or the VFO housing doesn't
cause any frequency shifting or warble.

It's possible that both CAR and PLL Units had dirty interconnecting
pins. I'm going to watch it for a day or two and see if it continues
to be stable. If no further instability occurs then I won't be
needing the relay.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Mike,
> I found the relay. Still New in a sealed package.
> if you need it, just drop me an email.
>
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Gordon,
> >
> > It's possible vibration may be causing the problem. I'll check it out
> > further to see what I can find. Thanks for the tip.
> >
> > Mike W5RKL
> >
> > --- In TS-520_820_530_830@yahoogroups.com, n6wk@ wrote:
> > >
> > > Mike,
> > > I wonder if the vibration from the relay cycling is somehow moving
> > > another poor connection ??
> > > I bought a relay for an 820 from someone here on the group a while back.
> > > I think I still have it on the shelf, new in the box.
> > > I'll look for it today.
> > > 73,
> > > Gordon
> > > N6WK
> > >
> > >
> > >
> > >

> > >
> > >
> > > w5rkl wrote:
> > > >
> > > >
> > > > My 820 has a frequency stability problem that is not caused by
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> > > > if I briefly press the PTT button, the problem clears up. That lead
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> > > > the forum? OMRON no longer sells that relay and MOUSER doesn't have
> > > > a suggested replacement.
> > > >
> > > > Mike W5RKL
> > > >
> > > >
> > > >
> > >
>

21482. Re: TS-520S on Ebay... Cheap!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-17 13:00:04 UTC
From: w5rkl
Topic: 21478 Message: 21482

I know the seller. His name is Ron, W5RCP, and I helped him fix that
520 through numerous e-mails back in December of last year. He seems
to be a nice guy.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Ron" <iamw5rcp@...> wrote:
>
> Check it out... http://cgi.ebay.com/Kenwood-TS-520S-Tranceiver_W0QQcmdZViewItemQQ_trkparmsZ65Q3a12Q7c66Q3a2Q7c39Q3a1Q7c72Q3a1234Q7c240Q3a1318Q7c301Q3a1Q7c293Q3a1Q7c294Q3a50QQ_trksidZp3286Q2ec0Q2em14QQhashZitem4ce9af574bQQitemZ330338096971QQptZLHQ5fDefaultDomainQ5f0QQsalenotsupported
>

21483. Re: [TS-520_820_530_830] Re: TS-820 Relays

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-17 15:37:45 UTC
From: n6wk@n6wk.com
Topic: 21469 Message: 21483

That is good news Mike.
Hopefully that will solve it. Dirty/loose connections seem to be the
biggest problems with these radios over years of service.
Again, if you end up needing the relay, just let me know.
73,
Gordon
N6WK

w5rkl wrote:
>
>
> Evening Gordon,
>
> I completed the cleaning of the PLL and CAR Units and it appears
> the 820 is stable. Tapping on the cabinet or the VFO housing doesn't
> cause any frequency shifting or warble.
>
> It's possible that both CAR and PLL Units had dirty interconnecting
> pins. I'm going to watch it for a day or two and see if it continues
> to be stable. If no further instability occurs then I won't be
> needing the relay.
>
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Gordon" <n6wk@...> wrote:
> >
> > Mike,
> > I found the relay. Still New in a sealed package.
> > if you need it, just drop me an email.
> >
> > 73,
> > Gordon
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "w5rkl" <w5rkl@> wrote:
> > >
> > > Gordon,
> > >
> > > It's possible vibration may be causing the problem. I'll check it out
> > > further to see what I can find. Thanks for the tip.
> > >
> > > Mike W5RKL
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com

> <mailto:TS-520_820_530_830%40yahoogroups.com>, n6wk@ wrote:
> > > >
> > > > Mike,
> > > > I wonder if the vibration from the relay cycling is somehow moving
> > > > another poor connection ??
> > > > I bought a relay for an 820 from someone here on the group a
> while back.
> > > > I think I still have it on the shelf, new in the box.
> > > > I'll look for it today.
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> > > > > All voltages are clean, no AC ripple, and measure what they should
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> > > > > Alignment has been performed according to the 820 service manual.
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> > > > > Anyone have a source other than what is in the FILES section of
> > > > > the forum? OMRON no longer sells that relay and MOUSER doesn't
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> > > > > a suggested replacement.
> > > > >
> > > > > Mike W5RKL
> > > > >
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21484. Extension Feet

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-17 12:45:16 UTC
From: sceneryguru
Topic: 21484 Message: 21484

Good Morning Group:

I think the subject line kind of says it all. The original part number is J02-0049-004. Kenwood was kind enough to include these in most all new equipment accessory part bags. I currently find myself with 3 UP and 2 DOWN. So the object of my request / search is for 2 sets of foot extensions to balance out the operating position.

Any constructive comments are welcome.

TNX & 73

Tom G, Sr.
K3SSSB

21485. TS830 rectifier diodes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-17 14:05:11 UTC
From: Bopal
Topic: 21485 Message: 21485

I have been troubleshooting my 830S since it suddenly lost power output. In Xmit it shows 400V hi voltage, down from 689 in Rcv. A scope on the 800 VAC line shows a distorted waveform that appears to break down around 500V. I suspect that one or more of the diodes (D1, D2, D3, D4) are breaking down. The parts list in the service manual is not specific but I think that these are the VO8J 800 volt diodes.

I have not been able to locate a data sheet on VO8J so that I can procure a modern equivalent. Any help?

73
John, W1JGB

21486. Re: [TS-520_820_530_830] TS830 rectifier diodes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-17 15:56:47 UTC
From: Gordon JC Pearce
Topic: 21485 Message: 21486

On Wed, 2009-06-17 at 14:05 +0000, Bopal wrote:
> I have been troubleshooting my 830S since it suddenly lost power output. In Xmit it shows 400V hi voltage, down from 689 in Rcv. A scope on the 800 VAC line shows a distorted waveform that appears to break down around 500V. I suspect that one or more of the diodes (D1, D2, D3, D4) are breaking down. The parts list in the service manual is not specific but I think that these are the VO8J 800 volt diodes.
>
> I have not been able to locate a data sheet on VO8J so that I can procure a modern equivalent. Any help?

Pretty much any high-voltage silicon diode.

What have you got?

Gordon 2M0YEQ

21487. Re: [TS-520_820_530_830] TS830 rectifier diodes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-17 16:04:26 UTC
From: Adrian Ellison
Topic: 21485 Message: 21487

Hi John,

I would check the smoothing capacitors before replacing the diodes.

73

Adrian - ZS1TTZ

On Wednesday 17 June 2009 16:05:11 Bopal wrote:
> I have been troubleshooting my 830S since it suddenly lost power output.
> In Xmit it shows 400V hi voltage, down from 689 in Rcv. A scope on the 800
> VAC line shows a distorted waveform that appears to break down around 500V.
> I suspect that one or more of the diodes (D1, D2, D3, D4) are breaking
> down. The parts list in the service manual is not specific but I think
> that these are the VO8J 800 volt diodes.
>
> I have not been able to locate a data sheet on VO8J so that I can procure a
> modern equivalent. Any help?
>
> 73
> John, W1JGB

21488. Re: [TS-520_820_530_830] Re: TS-820 IF Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-17 16:25:03 UTC
From: jsloss
Topic: 21461 Message: 21488

Mike: IF board problem corrected thanks to your comments. The "bad" IF board only had the SSB filter installed; the other "good" IF board had both SSB and CW filters. I had neglected to shift the position of the 3-wire filter connector to IF2 Position A when only the SSB filter was installed.

Many thanks for getting me thinking about filter selection. You were right on!

Joe k7mks

[Non-text portions of this message have been removed]

21489. Re: [TS-520_820_530_830] TS830 rectifier diodes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-17 16:25:30 UTC
From: n6wk@n6wk.com
Topic: 21485 Message: 21489

I was thinking exactly the same thing!

73,
Gordon
N6WK

Adrian Ellison wrote:
>
>
> Hi John,
>
> I would check the smoothing (HV) capacitors before replacing the diodes.
>
> 73
>
> Adrian - ZS1TTZ
>
> On Wednesday 17 June 2009 16:05:11 Bopal wrote:
> > I have been troubleshooting my 830S since it suddenly lost power
> output.
> > In Xmit it shows 400V hi voltage, down from 689 in Rcv. A scope on
> the 800
> > VAC line shows a distorted waveform that appears to break down
> around 500V.
> > I suspect that one or more of the diodes (D1, D2, D3, D4) are breaking
> > down. The parts list in the service manual is not specific but I think
> > that these are the VO8J 800 volt diodes.
> >
> > I have not been able to locate a data sheet on VO8J so that I can
> procure a
> > modern equivalent. Any help?
> >
> > 73
> > John, W1JGB
>
>

21490. Re: [TS-520_820_530_830] TS830 rectifier diodes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-17 16:39:12 UTC
From: Robert DROGOUL
Topic: 21485 Message: 21490

Hi Gordon
Just try 1N2007 diodes. They are 1000 V peak inverse voltage breakdown and 1 amp direct curent!
73
F5UL - Robert DROGOUL
Ref-Union - ARRL - NAQCC - Loc : JN35BV
Signataire de la Charte Union des Télégraphistes Francophones
http://utf.webamat.org
----- Original Message -----
From: Gordon JC Pearce
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, June 17, 2009 5:56 PM
Subject: Re: [TS-520_820_530_830] TS830 rectifier diodes

On Wed, 2009-06-17 at 14:05 +0000, Bopal wrote:
> I have been troubleshooting my 830S since it suddenly lost power output. In Xmit it shows 400V hi voltage, down from 689 in Rcv. A scope on the 800 VAC line shows a distorted waveform that appears to break down around 500V. I suspect that one or more of the diodes (D1, D2, D3, D4) are breaking down. The parts list in the service manual is not specific but I think that these are the VO8J 800 volt diodes.
>
> I have not been able to locate a data sheet on VO8J so that I can procure a modern equivalent. Any help?

Pretty much any high-voltage silicon diode.

What have you got?

Gordon 2M0YEQ

[Non-text portions of this message have been removed]

21491. Re: TS-820 IF Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-17 17:57:35 UTC
From: w5rkl
Topic: 21461 Message: 21491

That's great Joe, glad I was able to help.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "jsloss" <k7mks@...> wrote:
>
> Mike: IF board problem corrected thanks to your comments. The "bad" IF board only had the SSB filter installed; the other "good" IF board had both SSB and CW filters. I had neglected to shift the position of the 3-wire filter connector to IF2 Position A when only the SSB filter was installed.
>
> Many thanks for getting me thinking about filter selection. You were right on!
>
> Joe k7mks
>
> [Non-text portions of this message have been removed]
>

21492. Re: [TS-520_820_530_830] Extension Feet

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-17 19:01:42 UTC
From: Dave ve3wej
Topic: 21484 Message: 21492

put all feet up (collapsed) and use a 1 x 2 under all feet to raise the
radio

----- Original Message -----
From: "sceneryguru" <k3ssb@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, June 17, 2009 8:45 AM
Subject: [TS-520_820_530_830] Extension Feet

> Good Morning Group:
>
> I think the subject line kind of says it all. The original part number is
> J02-0049-004. Kenwood was kind enough to include these in most all new
> equipment accessory part bags. I currently find myself with 3 UP and 2
> DOWN. So the object of my request / search is for 2 sets of foot
> extensions to balance out the operating position.
>
> Any constructive comments are welcome.
>
> TNX & 73
>
> Tom G, Sr.
> K3SSSB
>
>
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>
> Yahoo! Groups Links
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>
>

21493. Re: [TS-520_820_530_830] TS830 rectifier diodes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-17 20:42:13 UTC
From: pmarkavage
Topic: 21485 Message: 21493

Don't use 1N2007 diodes. They're 560 volt, 150 mw zener diodes. 1N4007's
are probably a better choice as a rectifier replacement.
Datasheet for the V08 (J) is below. "J" determines the voltage rating.
The diode is generically called V08.
http://www.datasheetarchive.com/download/?url=http%3A%2F%2Fwww.datasheeta
rchive.com%2Fpdf-datasheets%2FDatasheets-30%2FDSA-593505.pdf
Watch for wrap-around; you might have to cut and paste into your browser.

Pete, wa2cwa

On Wed, 17 Jun 2009 18:39:12 +0200 "Robert DROGOUL" <f5ul@...>
writes:
> Hi Gordon
> Just try 1N2007 diodes. They are 1000 V peak inverse voltage
> breakdown and 1 amp direct curent!
> 73
> F5UL - Robert DROGOUL
> Ref-Union - ARRL - NAQCC - Loc : JN35BV
> Signataire de la Charte Union des T?l?graphistes Francophones
> http://utf.webamat.org
> ----- Original Message -----
> From: Gordon JC Pearce
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, June 17, 2009 5:56 PM
> Subject: Re: [TS-520_820_530_830] TS830 rectifier diodes
>
>
>
>
>
> On Wed, 2009-06-17 at 14:05 +0000, Bopal wrote:
> > I have been troubleshooting my 830S since it suddenly lost power
> output. In Xmit it shows 400V hi voltage, down from 689 in Rcv. A
> scope on the 800 VAC line shows a distorted waveform that appears to
> break down around 500V. I suspect that one or more of the diodes
> (D1, D2, D3, D4) are breaking down. The parts list in the service
> manual is not specific but I think that these are the VO8J 800 volt
> diodes.
> >
> > I have not been able to locate a data sheet on VO8J so that I
> can procure a modern equivalent. Any help?
>
> Pretty much any high-voltage silicon diode.
>
> What have you got?

>
> Gordon 2M0YEQ

21494. Re: [TS-520_820_530_830] Extension Feet

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-17 20:58:35 UTC
From: Steve
Topic: 21484 Message: 21494

Harbach electronics:
http://www.harbachelectronics.com/main/page_products_other_parts.html
has feet (both short and tall) for Heathkit amplifiers which may work for your Kenwood.

Steve W4IMF

----- Original Message -----
From: Dave ve3wej
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, June 17, 2009 3:01 PM
Subject: Re: [TS-520_820_530_830] Extension Feet

put all feet up (collapsed) and use a 1 x 2 under all feet to raise the
radio

----- Original Message -----
From: "sceneryguru" <k3ssb@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, June 17, 2009 8:45 AM
Subject: [TS-520_820_530_830] Extension Feet

> Good Morning Group:
>
> I think the subject line kind of says it all. The original part number is
> J02-0049-004. Kenwood was kind enough to include these in most all new
> equipment accessory part bags. I currently find myself with 3 UP and 2
> DOWN. So the object of my request / search is for 2 sets of foot
> extensions to balance out the operating position.
>
> Any constructive comments are welcome.
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> TNX & 73
>
> Tom G, Sr.
> K3SSSB
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

Certified Virus Free
Checked by AVG - www.avg.com
Version: 8.5.339 / Virus Database: 270.12.76/2183 - Release Date: 06/17/09 05:53:00

[Non-text portions of this message have been removed]

21495. TS-530 poor receive on the low bands.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-17 21:51:15 UTC
From: Larry
Topic: 21495 Message: 21495

I have a TS-530 I'm working on that has a weak receiver on the low bands. When I tune the coils on 1.5, 3.5, and 7, the antenna coils have no effect. The mixer coils peak as they should. I've cleaned the switch contacts several times, with no effect. Does anyone have an idea what my problem is?

21496. RE: [TS-520_820_530_830] Re: TS-830S-Neutralization question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-17 22:11:56 UTC
From: Lou Blasco
Topic: 21417 Message: 21496

Hi Jim,

I wonder how you're going with the 830. A friend of mine did the repairs for the local Kenwood agent in my region of Australia. He says that in his experience you could replace the tubes in 99.9% of radios without any need to neutralize them. He did however follow the recommended procedure for tube replacement and complete the neutralization step and in most cases he found that TC-1 ended up in it's original position or very close to it.

Regards

Lou
VK3ALB

At 03:18 PM 14/06/2009, you wrote:
>Hi Jim,
>
>The maximum voltage I had from my radio (original set of 2001's) was
>less than three mV into the 50 ohm load. I did find that the 'best'
>spot for TC-1 was a broad range of around 50% of it's rotation. Mine
>was already adjusted to minimum so there was no change before/after.
>I tried to see if the plates were meshed or not but I couldn't get
>the right viewing angle due to the cramped conditions. I recall in a
>previous life I had to work on 15kW pulsed amplifiers used in MRI
>service. Neutralization was the first step after the tube was
>changed. From memory, the best adjustment for those tubes was also
>pretty broad.
>
>I doubt that tubes have changed that much that neutralization is no
>longer required. They're still built to the same specification as 20
>- 30 or more years ago. It's possible that tube manufacturing
>tolerances are so close however that one set of tubes has the same
>characteristics as the next. In that case you 'might' get by without
>going through the neutralization step. I don't have a lot of
>practical experience with tube neutralization but I expect the danger
>is more likely to occur at full power on the higher bands where the
>small values of inter-electrode capacitance in the tubes come into
>play at the higher frequencies. Me, I wouldn't do it. Easy for me
>because I have the test gear to do the job.
>
>How do you know if your neutralization is correct? You need to
>measure the leakage with no power applied to the PA. You could tune
>your receiver around the 10m band while you have the send switch on
>and see if you can hear other signals from the 830. Put all the
>covers on and listen around. I expect that the received signal on

>28.5MHz should be quite low (S1 or less) and there should be nothing else.
>
>If you really can't get a hold of some test equipment, do you at
>least have a multimeter? You could whip up a little rf probe adapter
>that although not accurate will probably give you at least some
>indication of RF at the aerial socket.
>
>http://www.google.com.au/search?hl=en&safe=off&num=50&newwindow=1&q=rf+probe+circuit&btnG
=Search&meta=
>
>I tried connecting the receiver directly to the 520 via an attenuator
>& coax but the radiation from the 520 was getting into the radio from
>all over so it was impossible to use my receiver as some kind of
>selective volt meter. Probably says more about my receiver than it
>does about the testing technique.
>
>Maybe someone else has other ideas about how you can complete this
>task. It must be really frustrating considering this is normally a
>two minute job.
>
>Lou
>VK3ALB
>
>
>At 12:53 PM 14/06/2009, you wrote:
> >Lou,
> >
> >Yes, I am a new member, so maybe my posts are being "reviewed?" prior to
> >being released to the forum. I'll be patient and hope that I'm given
> >"trusted poster" status soon.
> >
> >Wow. What can I say? You went to a lot of trouble to validate or
> >invalidate Kenwood's (alternate) process. It sounds like the process of
> >monitoring a signal on an adjacent receiver to set the lowest voltage of the
> >neutralization circuit may be suspect.
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> >I had a email off-line from another forum member who had the same experience
> >you and I had. He elected to proceed to use his new tubes and has been
> >transmitting successfully for several months now, perhaps(and I acknowledge
> >this is not a scientific conclusion) indicating that the new tubes did not
> >require any neutralization. The questions begs to be asked, is there a way
> >to determine the success or failure of the neutralization process? How does
> >one determine, with a high degree of certainty, that a transmitter is, or
> >isn't, generating spurious emissions following the fitment of new final amp
> >tubes. We know Kenwood thought enough of their process to document it in
> >their manual, so maybe what we are seeing are situations where tubes are of
> >such high quality or closely matched tolerances that neutralization is not
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> >setting. What did you find to be the range between the highest measurable
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> >significant difference? Did you find that the base setting, before you
> >adjusted TC-1, was the lowest, or did you end up at a different setting when
> >you were done than when you began?
> >
> >Once again, I'm glad you duplicated the process I followed and posted your
> >results. Thanks for going to the trouble.
> >
> >Regards,
> >
> >Jim McPhee
> >Placitas, NM
> >KF5BNG
> >From: TS-520_820_530_830@yahoogroups.com
> >[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Lou Blasco
> >Sent: Saturday, June 13, 2009 6:26 PM
> >To: TS-520_820_530_830@yahoogroups.com
> >Subject: RE: [TS-520_820_530_830] Re: TS-830S-Neutralization question
> >
> >
> >
> >
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> >Hi Jim,
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> >Firstly to your delayed posts. I'm not sure if you're a new member or
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> >was plain nonsense. So I went out into the shack this morning and
> >replicated your test configuration. I used a Kenwood 520S, a Kenwood
> >R2000 receiver (no aerial and the SO-239 unterminated) and my AT200
> >dummy load. I also prepared an electronic RF millivolt meter with 50
> >ohm terminated load. The receiver was on the same desk as the 520S
> >two feet away. I tuned up into the load and tuned the receiver so I
> >could detect the signal (about S9 +20dB) with the SEND switch on.
> >
> >Then I turned off the filaments and the SG switch and hit SEND. The
> >signal was barely audible and the meter moved maybe half an S point
> >(around S1). Next step was to remove the covers and go through the
> >neutralization procedure. Well there it was. With the covers off I
> >had an S7 signal on the receiver. I agree with Richard that the
> >signal you're receiving is radiated from inside the 830 rather than
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> >So your original question was "Do I have a problem with my 830"?
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> >Lou
> >VK3ALB
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> >At 13:49 13/06/2009, you wrote:
> > >Lou,
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> > >As I indicated, I am a novice at this, although I have some background in
> > >radios and communications thanks to the USN some years back.
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> > >The only deviation the "alternate" process takes from Kenwood's documented
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> documented process
> > >and the one I will follow until I know or am told of a better one.
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> > >Here is the process that Ken at K4EAA.COM recommends on his website:
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> > >How can I Neutralize my Finals?
> > >Neutralization is the process of compensating for the inter-electrode

> > >capacitance of the final tubes. It helps prevent the tubes from
> > >oscillating, and allows them to perform as a stable amplifier. Here is a
> > >simple sequence for neutralizing your finals:
> > >(1) Tune up normally into a dummy load on 10M, perhaps 28.1 MHz
> > >(2) Turn your SG (Screen Grid voltage) switch OFF. This effectively turns
> > >off your finals, and will prevent them from putting any power into your
> > >measurement setup.
> > >(3) If your dummy load has external connections to monitor the RF it is
> > >seeing, use those - Otherwise, remove the dummy load and replace it with a
> > >50 ohm resistor (47 or 51 Ohms, 1/2W will work fine) that is
> mounted onto a
> > >PL-259 Plug. During neutralization there is no significant power in the
> > >load, so use what's handy.
> > >(4) Using an RF millivoltmeter or oscilloscope with at least 20MHz
> > >bandwidth, connect it across the small 50 Ohm test load. A 20MHz
> scope will
> > >display 28 MHz adequately, although it won't accurately measure the RF
> > >voltage present. That's OK, because when we neutralize, we're
> simply tuning
> > >for minimum output.
> > >(5) Key the rig and observe the output voltage on your RF VTVM or Scope.
> > >This is the drive power "leaking through" to the load with the finals
> > >inoperative. Our goal here is to minimize this leakage, and in
> doing so, we
> > >will ne "neutralizing" the inter-electrode capacitance.
> > >(6) Using an INSULATED tool, either plastic or a carved wooden dowel, tune
> > >the neutralization capacitor for minimum output. You should be able to get
> > >down to 10 millivolts or so. There is LOTS of voltage present, so don't
> > >even THINK about using a metallic tool!! You will spark and arc and create
> > >all manner of scarey fireworks if you do - Not to mention perhaps joining
> > >the ranks of the SK's . . .
> > >Don't forget to return your SG switch to ON for normal operation.
> > >Same basic process, just a slightly lower 10 meter frequency with the
> >option
> > >of using a scope to tune for a minimum output.
> > >
> > >In answer to your question about the nearby receiver, it was truly that.
> > >Sitting a couple of feet away with no physical connection. Once I had hit
> > >the send switch on the 830S, the other receiver picked up the signal from
> > >the 830S. I adjusted the RF gain on that other receiver to align
> the needle
> > >with a reference point, say the s7 mark. My thinking was I would have a
> > >reference point so I could watch for any deviation above or
> below that mark
> > >with a goal of setting the neutralization pot so that the needle on the
> > >other receiver was at its lowest point. Trouble is there was no lowest
> > >point; in fact there was no deviation at all.
> > >
> > >Regards,
> > >

> > >Jim McPhee
> > >Placitas, NM
> > >C23, Therapy
> > >From: TS-520_820_530_830@yahoogroups.com
> ><mailto:TS-520_820_530_830%40yahoogroups.com>
> > >[mailto:TS-520_820_530_830@yahoogroups.com
> ><mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of Lou Blasco
> > >Sent: Friday, June 12, 2009 5:12 PM
> > >To: TS-520_820_530_830@yahoogroups.com
> ><mailto:TS-520_820_530_830%40yahoogroups.com>
> > >Subject: Re: [TS-520_820_530_830] Re: TS-830S-Neutralization question
> > >
> > >
> > >
> > >
> > >
> > >Hi Jim,
> > >
> > >I understand the process you followed and why but imagine that your
> > >PA was spurious at say 22MHz. Your receiver tuned to 28.5MHz wouldn't
> > >(shouldn't) indicate anything. No matter how you adjust TC-1 your
> > >testing arrangement would not help you to reduce the 22MHz spurious.
> > >
> > >I can't explain why that procedure is in the book (maybe the PA is
> > >prone to spurii at 28.5MHz) but certainly a 'scope or RF voltmeter
> > >would help confirm the PA was stable. Perhaps you can borrow some
> > >gear from a local club or amateur?
> > >
> > >You indicate you've made some kind of reference measurement on your
> > >receiver. What do you mean and does it change when you hit the send
> > >switch. If so what do you read on receiver and transmit? Also, is the
> > >receiver connected to the 830 or really just sitting nearby with no
> > >aerial connection?
> > >
> > >As I write I'm thinking that even if you can't find a scope or RF
> > >voltmeter you could use the receiver to look for spurrii by tuning up
> > >and down the bands whilst toggling the send switch on the 830. Lots
> > >more work for you but it should help put your mind at rest.
> > >
> > >Regards
> > >
> > >Lou
> > >VK3ALB
> > >
> > >At 03:27 13/06/2009, you wrote:
> > > >Mike,
> > > >
> > > >Thanks for your response. I tried to be very precise in describing
> > > >the process I followed just so there would be no question about it,
> > > >but let me try again.

> > > >
> > > >I know what the purpose of the neutralization process is.
> > > >
> > > >I followed the process (or the alternate process, perhaps) as
> > > >defined in the instruction manual on page 28. I didn't make the process
> >up.
> > > >
> > > >The manual says, after describing how to proceed if you have a
> > > >"sensitive RF milli-voltmeter", and I quote:
> > > >
> > > >"A receiver tuned to 28.5 MHz works very well for neutralizing if an
> > > >RF voltmeter is not available. Instead of tuning for a minimum
> > > >voltage, tune for a minimum S-meter reading."
> > > >
> > > >An RF voltmeter is not available (no scope, either) , so I followed
> > > >the above process. I did not adjust anything other than the
> > > >neutralization pot (with a plastic screwdriver) once the transmitter
> > > >was tuned up and I began the neutralization process. So, the question
> > >remains:
> > > >
> > > >Rotation of the neutralization pot (TC-1) has no effect on the
> > > >signal strength as displayed on the s-meter of a nearby receiver
> > > >following the process outlined in the instruction manual. Does this
> > > >indicate a problem?
> > >
> > >
> > >
> > >[Non-text portions of this message have been removed]
> > >
> > >
> > >
> > >------------------------------------
> > >
> > >Yahoo! Groups Links
> > >
> > >
> > >
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21497. Re: TS830 rectifier diodes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-17 23:50:41 UTC
From: m j synowiec
Topic: 21485 Message: 21497

Hello to all & Ihope this finds you well.

As has been pointed out: The HV filter caps are more to be suspected than the diodes for a sagging HV supply voltage. Ken Kemski (K4EAA.com) has replacements that fit the clamps and are electrically sound as well as well as other parts for the HV system of the hybrids. I've found his prices and service to be very good. I dont think you can go wrong by checking his web-site.

vy 73 de,
mjsyn K8SYN

--- In TS-520_820_530_830@yahoogroups.com, pmarkavage <pmarkavage@...> wrote:
>
> Don't use 1N2007 diodes. They're 560 volt, 150 mw zener diodes. 1N4007's
> are probably a better choice as a rectifier replacement.
> Datasheet for the V08 (J) is below. "J" determines the voltage rating.
> The diode is generically called V08.
> http://www.datasheetarchive.com/download/?url=http%3A%2F%2Fwww.datasheeta
> rchive.com%2Fpdf-datasheets%2FDatasheets-30%2FDSA-593505.pdf
> Watch for wrap-around; you might have to cut and paste into your browser.
>
> Pete, wa2cwa
>
>
> On Wed, 17 Jun 2009 18:39:12 +0200 "Robert DROGOUL" <f5ul@...>
> writes:
> > Hi Gordon
> > Just try 1N2007 diodes. They are 1000 V peak inverse voltage
> > breakdown and 1 amp direct curent!
> > 73
> > F5UL - Robert DROGOUL
> > Ref-Union - ARRL - NAQCC - Loc : JN35BV
> > Signataire de la Charte Union des Télégraphistes Francophones
> > http://utf.webamat.org
> > ----- Original Message -----
> > From: Gordon JC Pearce
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Wednesday, June 17, 2009 5:56 PM
> > Subject: Re: [TS-520_820_530_830] TS830 rectifier diodes
> >
> >
> >
> >
> >
> > On Wed, 2009-06-17 at 14:05 +0000, Bopal wrote:
> > > I have been troubleshooting my 830S since it suddenly lost power

> > output. In Xmit it shows 400V hi voltage, down from 689 in Rcv. A
> > scope on the 800 VAC line shows a distorted waveform that appears to
> > break down around 500V. I suspect that one or more of the diodes
> > (D1, D2, D3, D4) are breaking down. The parts list in the service
> > manual is not specific but I think that these are the VO8J 800 volt
> > diodes.
> > >
> > > I have not been able to locate a data sheet on VO8J so that I
> > can procure a modern equivalent. Any help?
> > >
> > Pretty much any high-voltage silicon diode.
> > >
> > What have you got?
> > >
> > Gordon 2M0YEQ
>

21498. RE: [TS-520_820_530_830] Re: TS-830S-Neutralization question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-18 01:03:11 UTC
From: Jim McPhee
Topic: 21417 Message: 21498

Hi Lou,

Thanks for following up. I haven't done much since our recent discussion. Reason being that I discovered that the MFJ 949-D antenna tuner that I bought (ebay again) has a problem. It does not register any reflected power when transmitting into the G5RV antenna, so I can't determine the SWR. So, I'm holding off on things until I get a proper tuner. In the mean time, I understand that there is a good ham radio tech nearby in Albuquerque. I will track him down and ask him if he can do the neutralization process, and perhaps do an alignment as well. Eventually I would like to acquire the test equipment and the knowledge to do this myself, but now is not the time. I just got my Technician license and am studying for General class. I haven't even made a single contact yet!! I'm anxious to get on the air.

Regards,

Jim McPhee
Placitas, NM
KF5BNG
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Lou Blasco
Sent: Wednesday, June 17, 2009 4:12 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: RE: [TS-520_820_530_830] Re: TS-830S-Neutralization question

Hi Jim,

I wonder how you're going with the 830. A friend of mine did the repairs for the local Kenwood agent in my region of Australia. He says that in his experience you could replace the tubes in 99.9% of radios without any need to neutralize them. He did however follow the recommended procedure for tube replacement and complete the neutralization step and in most cases he found that TC-1 ended up in it's original position or very close to it.

Regards

Lou
VK3ALB

At 03:18 PM 14/06/2009, you wrote:
>Hi Jim,
>
>The maximum voltage I had from my radio (original set of 2001's) was
>less than three mV into the 50 ohm load. I did find that the 'best'
>spot for TC-1 was a broad range of around 50% of it's rotation. Mine
>was already adjusted to minimum so there was no change before/after.

>I tried to see if the plates were meshed or not but I couldn't get
>the right viewing angle due to the cramped conditions. I recall in a
>previous life I had to work on 15kW pulsed amplifiers used in MRI
>service. Neutralization was the first step after the tube was
>changed. From memory, the best adjustment for those tubes was also
>pretty broad.
>
>I doubt that tubes have changed that much that neutralization is no
>longer required. They're still built to the same specification as 20
>- 30 or more years ago. It's possible that tube manufacturing
>tolerances are so close however that one set of tubes has the same
>characteristics as the next. In that case you 'might' get by without
>going through the neutralization step. I don't have a lot of
>practical experience with tube neutralization but I expect the danger
>is more likely to occur at full power on the higher bands where the
>small values of inter-electrode capacitance in the tubes come into
>play at the higher frequencies. Me, I wouldn't do it. Easy for me
>because I have the test gear to do the job.
>
>How do you know if your neutralization is correct? You need to
>measure the leakage with no power applied to the PA. You could tune
>your receiver around the 10m band while you have the send switch on
>and see if you can hear other signals from the 830. Put all the
>covers on and listen around. I expect that the received signal on
>28.5MHz should be quite low (S1 or less) and there should be nothing else.
>
>If you really can't get a hold of some test equipment, do you at
>least have a multimeter? You could whip up a little rf probe adapter
>that although not accurate will probably give you at least some
>indication of RF at the aerial socket.
>
>http://www.google.com.au/search?hl=en
<http://www.google.com.au/search?hl=en&safe=off&num=50&newwindow=1&q=rf+prob
e+circuit&btnG=Search&meta=>
&safe=off&num=50&newwindow=1&q=rf+probe+circuit&btnG=Search&meta=
>
>I tried connecting the receiver directly to the 520 via an attenuator
>& coax but the radiation from the 520 was getting into the radio from
>all over so it was impossible to use my receiver as some kind of
>selective volt meter. Probably says more about my receiver than it
>does about the testing technique.
>
>Maybe someone else has other ideas about how you can complete this
>task. It must be really frustrating considering this is normally a
>two minute job.
>
>Lou
>VK3ALB
>
>

>At 12:53 PM 14/06/2009, you wrote:
> >Lou,
> >
> >Yes, I am a new member, so maybe my posts are being "reviewed?" prior to
> >being released to the forum. I'll be patient and hope that I'm given
> >"trusted poster" status soon.
> >
> >Wow. What can I say? You went to a lot of trouble to validate or
> >invalidate Kenwood's (alternate) process. It sounds like the process of
> >monitoring a signal on an adjacent receiver to set the lowest voltage of
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> >neutralization circuit may be suspect.
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> >KF5BNG
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> >Lou
> >VK3ALB
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> > >simple sequence for neutralizing your finals:
> > >(1) Tune up normally into a dummy load on 10M, perhaps 28.1 MHz
> > >(2) Turn your SG (Screen Grid voltage) switch OFF. This effectively
turns
> > >off your finals, and will prevent them from putting any power into your
> > >measurement setup.
> > >(3) If your dummy load has external connections to monitor the RF it is
> > >seeing, use those - Otherwise, remove the dummy load and replace it
with a
> > >50 ohm resistor (47 or 51 Ohms, 1/2W will work fine) that is
> mounted onto a
> > >PL-259 Plug. During neutralization there is no significant power in the
> > >load, so use what's handy.
> > >(4) Using an RF millivoltmeter or oscilloscope with at least 20MHz
> > >bandwidth, connect it across the small 50 Ohm test load. A 20MHz
> scope will
> > >display 28 MHz adequately, although it won't accurately measure the RF
> > >voltage present. That's OK, because when we neutralize, we're
> simply tuning
> > >for minimum output.
> > >(5) Key the rig and observe the output voltage on your RF VTVM or
Scope.
> > >This is the drive power "leaking through" to the load with the finals
> > >inoperative. Our goal here is to minimize this leakage, and in
> doing so, we
> > >will ne "neutralizing" the inter-electrode capacitance.
> > >(6) Using an INSULATED tool, either plastic or a carved wooden dowel,
tune
> > >the neutralization capacitor for minimum output. You should be able to
get
> > >down to 10 millivolts or so. There is LOTS of voltage present, so don't
> > >even THINK about using a metallic tool!! You will spark and arc and
create
> > >all manner of scarey fireworks if you do - Not to mention perhaps
joining
> > >the ranks of the SK's . . .
> > >Don't forget to return your SG switch to ON for normal operation.
> > >Same basic process, just a slightly lower 10 meter frequency with the
> >option
> > >of using a scope to tune for a minimum output.
> > >
> > >In answer to your question about the nearby receiver, it was truly
that.
> > >Sitting a couple of feet away with no physical connection. Once I had
hit
> > >the send switch on the 830S, the other receiver picked up the signal
from
> > >the 830S. I adjusted the RF gain on that other receiver to align
> the needle

> > >with a reference point, say the s7 mark. My thinking was I would have a
> > >reference point so I could watch for any deviation above or
> below that mark
> > >with a goal of setting the neutralization pot so that the needle on the
> > >other receiver was at its lowest point. Trouble is there was no lowest
> > >point; in fact there was no deviation at all.
> > >
> > >Regards,
> > >
> > >Jim McPhee
> > >Placitas, NM
> > >C23, Therapy
> > >From: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
> ><mailto:TS-520_820_530_830%40yahoogroups.com>
> > >[mailto:TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
> ><mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of Lou Blasco
> > >Sent: Friday, June 12, 2009 5:12 PM
> > >To: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
> ><mailto:TS-520_820_530_830%40yahoogroups.com>
> > >Subject: Re: [TS-520_820_530_830] Re: TS-830S-Neutralization question
> > >
> > >
> > >
> > >
> > >
> > >Hi Jim,
> > >
> > >I understand the process you followed and why but imagine that your
> > >PA was spurious at say 22MHz. Your receiver tuned to 28.5MHz wouldn't
> > >(shouldn't) indicate anything. No matter how you adjust TC-1 your
> > >testing arrangement would not help you to reduce the 22MHz spurious.
> > >
> > >I can't explain why that procedure is in the book (maybe the PA is
> > >prone to spurii at 28.5MHz) but certainly a 'scope or RF voltmeter
> > >would help confirm the PA was stable. Perhaps you can borrow some
> > >gear from a local club or amateur?
> > >
> > >You indicate you've made some kind of reference measurement on your
> > >receiver. What do you mean and does it change when you hit the send
> > >switch. If so what do you read on receiver and transmit? Also, is the
> > >receiver connected to the 830 or really just sitting nearby with no
> > >aerial connection?
> > >
> > >As I write I'm thinking that even if you can't find a scope or RF
> > >voltmeter you could use the receiver to look for spurrii by tuning up
> > >and down the bands whilst toggling the send switch on the 830. Lots
> > >more work for you but it should help put your mind at rest.

> > >
> > >Regards
> > >
> > >Lou
> > >VK3ALB
> > >
> > >At 03:27 13/06/2009, you wrote:
> > > >Mike,
> > > >
> > > >Thanks for your response. I tried to be very precise in describing
> > > >the process I followed just so there would be no question about it,
> > > >but let me try again.
> > > >
> > > >I know what the purpose of the neutralization process is.
> > > >
> > > >I followed the process (or the alternate process, perhaps) as
> > > >defined in the instruction manual on page 28. I didn't make the
process
> >up.
> > > >
> > > >The manual says, after describing how to proceed if you have a
> > > >"sensitive RF milli-voltmeter", and I quote:
> > > >
> > > >"A receiver tuned to 28.5 MHz works very well for neutralizing if an
> > > >RF voltmeter is not available. Instead of tuning for a minimum
> > > >voltage, tune for a minimum S-meter reading."
> > > >
> > > >An RF voltmeter is not available (no scope, either) , so I followed
> > > >the above process. I did not adjust anything other than the
> > > >neutralization pot (with a plastic screwdriver) once the transmitter
> > > >was tuned up and I began the neutralization process. So, the question
> > >remains:
> > > >
> > > >Rotation of the neutralization pot (TC-1) has no effect on the
> > > >signal strength as displayed on the s-meter of a nearby receiver
> > > >following the process outlined in the instruction manual. Does this
> > > >indicate a problem?
> > >
> > >
> > >
> > >[Non-text portions of this message have been removed]
> > >
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> > >
> > >------------------------------------
> > >
> > >Yahoo! Groups Links
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[Non-text portions of this message have been removed]

21499. Re: TS-830S-Neutralization question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-18 04:13:23 UTC
From: w5rkl
Topic: 21417 Message: 21499

Hello Jim,

If the MFJ-949 is not displaying reflected power then it is quite possible the 1N34A Germanium diode in the reflected circuit is bad, burnt open. This usually occurs if the power rating of the tuner has been exceeded.

Any Germanium diode that has a voltage and current rating of 65VDC at 50ma will work. Just be sure the diode is installed properly, banded end to the circuit connection shown in the schematic. A crude drawing of a diode is shown below. Note the lead that connects to the vertical line, that is the banded end. Germanium diodes have color bands but the bands will be closest to one lead.

-------|<------ none banded lead this end

You can check the diode with an ohm meter. Connect the ohm meter leads across the diode and note the meter reading. Reverse the ohm meter leads and the ohm meter reading should be different if the diode is good. If the diode is bad, the meter will read the same regardless of how the meter leads are connected across the diode. Diodes conduct in one direction only, that's how they "rectify" AC voltage into "unfiltered pulsating" DC voltage.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Jim McPhee" <jmcphee@...> wrote:
>
> Hi Lou,
>
> Thanks for following up. I haven't done much since our recent discussion.
> Reason being that I discovered that the MFJ 949-D antenna tuner that I
> bought (ebay again) has a problem. It does not register any reflected power
> when transmitting into the G5RV antenna, so I can't determine the SWR. So,
> I'm holding off on things until I get a proper tuner. In the mean time, I
> understand that there is a good ham radio tech nearby in Albuquerque. I
> will track him down and ask him if he can do the neutralization process, and
> perhaps do an alignment as well. Eventually I would like to acquire the test
> equipment and the knowledge to do this myself, but now is not the time. I
> just got my Technician license and am studying for General class. I haven't
> even made a single contact yet!! I'm anxious to get on the air.
>
>
> Regards,
>

> Jim McPhee
> Placitas, NM
> KF5BNG
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Lou Blasco
> Sent: Wednesday, June 17, 2009 4:12 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: RE: [TS-520_820_530_830] Re: TS-830S-Neutralization question
>
>
>
>
>
> Hi Jim,
>
> I wonder how you're going with the 830. A friend of mine did the
> repairs for the local Kenwood agent in my region of Australia. He
> says that in his experience you could replace the tubes in 99.9% of
> radios without any need to neutralize them. He did however follow the
> recommended procedure for tube replacement and complete the
> neutralization step and in most cases he found that TC-1 ended up in
> it's original position or very close to it.
>
> Regards
>
> Lou
> VK3ALB
>
> At 03:18 PM 14/06/2009, you wrote:
> >Hi Jim,
> >
> >The maximum voltage I had from my radio (original set of 2001's) was
> >less than three mV into the 50 ohm load. I did find that the 'best'
> >spot for TC-1 was a broad range of around 50% of it's rotation. Mine
> >was already adjusted to minimum so there was no change before/after.
> >I tried to see if the plates were meshed or not but I couldn't get
> >the right viewing angle due to the cramped conditions. I recall in a
> >previous life I had to work on 15kW pulsed amplifiers used in MRI
> >service. Neutralization was the first step after the tube was
> >changed. From memory, the best adjustment for those tubes was also
> >pretty broad.
> >
> >I doubt that tubes have changed that much that neutralization is no
> >longer required. They're still built to the same specification as 20
> >- 30 or more years ago. It's possible that tube manufacturing
> >tolerances are so close however that one set of tubes has the same
> >characteristics as the next. In that case you 'might' get by without
> >going through the neutralization step. I don't have a lot of
> >practical experience with tube neutralization but I expect the danger
> >is more likely to occur at full power on the higher bands where the

> >small values of inter-electrode capacitance in the tubes come into
> >play at the higher frequencies. Me, I wouldn't do it. Easy for me
> >because I have the test gear to do the job.
> >
> >How do you know if your neutralization is correct? You need to
> >measure the leakage with no power applied to the PA. You could tune
> >your receiver around the 10m band while you have the send switch on
> >and see if you can hear other signals from the 830. Put all the
> >covers on and listen around. I expect that the received signal on
> >28.5MHz should be quite low (S1 or less) and there should be nothing else.
> >
> >If you really can't get a hold of some test equipment, do you at
> >least have a multimeter? You could whip up a little rf probe adapter
> >that although not accurate will probably give you at least some
> >indication of RF at the aerial socket.
> >
> >http://www.google.com.au/search?hl=en
> <http://www.google.com.au/search?hl=en&safe=off&num=50&newwindow=1&q=rf+prob
> e+circuit&btnG=Search&meta=>
> &safe=off&num=50&newwindow=1&q=rf+probe+circuit&btnG=Search&meta=
> >
> >I tried connecting the receiver directly to the 520 via an attenuator
> >& coax but the radiation from the 520 was getting into the radio from
> >all over so it was impossible to use my receiver as some kind of
> >selective volt meter. Probably says more about my receiver than it
> >does about the testing technique.
> >
> >Maybe someone else has other ideas about how you can complete this
> >task. It must be really frustrating considering this is normally a
> >two minute job.
> >
> >Lou
> >VK3ALB
> >
> >
> >At 12:53 PM 14/06/2009, you wrote:
> > >Lou,
> > >
> > >Yes, I am a new member, so maybe my posts are being "reviewed?" prior to
> > >being released to the forum. I'll be patient and hope that I'm given
> > >"trusted poster" status soon.
> > >
> > >Wow. What can I say? You went to a lot of trouble to validate or
> > >invalidate Kenwood's (alternate) process. It sounds like the process of
> > >monitoring a signal on an adjacent receiver to set the lowest voltage of
> the
> > >neutralization circuit may be suspect.
> > >
> > >I had a email off-line from another forum member who had the same
> experience

> > >you and I had. He elected to proceed to use his new tubes and has been
> > >transmitting successfully for several months now, perhaps(and I
> acknowledge
> > >this is not a scientific conclusion) indicating that the new tubes did
> not
> > >require any neutralization. The questions begs to be asked, is there a
> way
> > >to determine the success or failure of the neutralization process? How
> does
> > >one determine, with a high degree of certainty, that a transmitter is, or
> > >isn't, generating spurious emissions following the fitment of new final
> amp
> > >tubes. We know Kenwood thought enough of their process to document it in
> > >their manual, so maybe what we are seeing are situations where tubes are
> of
> > >such high quality or closely matched tolerances that neutralization is
> not
> > >an issue.
> > >
> > >The process calls for the voltage to be set at the lowest measurable
> > >setting. What did you find to be the range between the highest measurable
> > >voltage and the lowest while having your meter connected? Was there a
> > >significant difference? Did you find that the base setting, before you
> > >adjusted TC-1, was the lowest, or did you end up at a different setting
> when
> > >you were done than when you began?
> > >
> > >Once again, I'm glad you duplicated the process I followed and posted
> your
> > >results. Thanks for going to the trouble.
> > >
> > >Regards,
> > >
> > >Jim McPhee
> > >Placitas, NM
> > >KF5BNG
> > >From: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > >[mailto:TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of Lou Blasco
> > >Sent: Saturday, June 13, 2009 6:26 PM
> > >To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > >Subject: RE: [TS-520_820_530_830] Re: TS-830S-Neutralization question
> > >
> > >
> > >
> > >
> > >
> > >Hi Jim,

> > >
> > >Firstly to your delayed posts. I'm not sure if you're a new member or
> > >not but it could be that your membership has the "moderation" button
> > >selected. I had this with a couple of other Yahoo sites that I've
> > >joined. My posts would be delayed for hours or even days. After a few
> > >emails back and forth to the moderators it was finally sorted out.
> > >Seems there's something funny with the way Yahoo profiles are configured.
> > >
> > >On the topic of 28.5MHz, I think you're right, Kenwood know what
> > >they're doing. My suggestion to look for spurii with your receiver
> > >was plain nonsense. So I went out into the shack this morning and
> > >replicated your test configuration. I used a Kenwood 520S, a Kenwood
> > >R2000 receiver (no aerial and the SO-239 unterminated) and my AT200
> > >dummy load. I also prepared an electronic RF millivolt meter with 50
> > >ohm terminated load. The receiver was on the same desk as the 520S
> > >two feet away. I tuned up into the load and tuned the receiver so I
> > >could detect the signal (about S9 +20dB) with the SEND switch on.
> > >
> > >Then I turned off the filaments and the SG switch and hit SEND. The
> > >signal was barely audible and the meter moved maybe half an S point
> > >(around S1). Next step was to remove the covers and go through the
> > >neutralization procedure. Well there it was. With the covers off I
> > >had an S7 signal on the receiver. I agree with Richard that the
> > >signal you're receiving is radiated from inside the 830 rather than
> > >the aerial connector of your 830.
> > >
> > >I found the same thing you did. No matter where TC-1 was set the
> > >receiver showed the same signal strength. I then connected the RF
> > >millivolt meter in place of the AT200 and adjusted TC-1 for minimum
> > >output from the 520S. I measured less than 1mV into a 50 ohm
> > >termination. The S meter on the receiver did not move. The small
> > >adjustment made with TC-1 has no impact on the radiated signal from
> > >the unshielded 830.
> > >
> > >My conclusion is that there is no way you can run the neutralization
> > >procedure with your test configuration.
> > >
> > >So your original question was "Do I have a problem with my 830"?
> > >Probably not but you need to find a way to confirm that your PA is
> > >correctly neutralized. Is there any chance you could borrow a 'scope
> > >or RF voltmeter?
> > >
> > >Regards
> > >
> > >Lou
> > >VK3ALB
> > >
> > >At 13:49 13/06/2009, you wrote:
> > > >Lou,
> > > > >

> > > >As I indicated, I am a novice at this, although I have some background
> in
> > > >radios and communications thanks to the USN some years back.
> > > >
> > > >The only deviation the "alternate" process takes from Kenwood's
> documented
> > > >"primary" process is to use the s-meter on the nearby receiver as
> opposed
> > >to
> > > >using a RF voltmeter. Why the Kenwood engineers specified 28.500 as the
> > > >frequency of choice for the neutralization process I sure don't know,
> BUT
> > > >I've got to think that if they could engineer a transceiver as good as
> > >these
> > > >hybrids that they knew what they were doing. There's only one
> > > >neutralization pot, and only 360 degrees on it, and no access port
> through
> > > >the bottom of the case (the case needs to be removed to access it) so
> you
> > > >have to make your adjustments before putting the case back on. How one
> > > >would make different adjustments(if that's what you're suggesting)
> between
> > > >10 and 160 meter bands I don't know. Seems like you "could" chase it
> all
> > > >over the place on the different bands. Tuning the pot to the lowest
> > > >voltage or signal level on another receiver is Kenwood's
> > documented process
> > > >and the one I will follow until I know or am told of a better one.
> > > >
> > > >Here is the process that Ken at K4EAA.COM recommends on his website:
> > > >
> > > >How can I Neutralize my Finals?
> > > >Neutralization is the process of compensating for the inter-electrode
> > > >capacitance of the final tubes. It helps prevent the tubes from
> > > >oscillating, and allows them to perform as a stable amplifier. Here is
> a
> > > >simple sequence for neutralizing your finals:
> > > >(1) Tune up normally into a dummy load on 10M, perhaps 28.1 MHz
> > > >(2) Turn your SG (Screen Grid voltage) switch OFF. This effectively
> turns
> > > >off your finals, and will prevent them from putting any power into your
> > > >measurement setup.
> > > >(3) If your dummy load has external connections to monitor the RF it is
> > > >seeing, use those - Otherwise, remove the dummy load and replace it
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> > > >50 ohm resistor (47 or 51 Ohms, 1/2W will work fine) that is
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> > > >bandwidth, connect it across the small 50 Ohm test load. A 20MHz
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> > simply tuning
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> > > >(5) Key the rig and observe the output voltage on your RF VTVM or
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> > > >This is the drive power "leaking through" to the load with the finals
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> > > >(6) Using an INSULATED tool, either plastic or a carved wooden dowel,
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> > > >Same basic process, just a slightly lower 10 meter frequency with the
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> > > >Jim McPhee
> > > >Placitas, NM
> > > >C23, Therapy
> > > >From: TS-520_820_530_830@yahoogroups.com
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> > ><mailto:TS-520_820_530_830%40yahoogroups.com>
> > > >Subject: Re: [TS-520_820_530_830] Re: TS-830S-Neutralization question
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >Hi Jim,
> > > >
> > > >I understand the process you followed and why but imagine that your
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> > > >
> > > >Regards
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> > > >Lou
> > > >VK3ALB
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> > > >At 03:27 13/06/2009, you wrote:
> > > > >Mike,
> > > > >
> > > > >Thanks for your response. I tried to be very precise in describing
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> > > > >"A receiver tuned to 28.5 MHz works very well for neutralizing if an
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> > > > >
> > > > >Rotation of the neutralization pot (TC-1) has no effect on the
> > > > >signal strength as displayed on the s-meter of a nearby receiver
> > > > >following the process outlined in the instruction manual. Does this
> > > > >indicate a problem?
> > > >
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> > > >[Non-text portions of this message have been removed]
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> > > >Yahoo! Groups Links
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21500. RE: [TS-520_820_530_830] Re: TS-830S-Neutralization question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-18 04:24:53 UTC
From: Jim McPhee
Topic: 21417 Message: 21500

Mike,

Thanks! I will check that tomorrow and replace it if I find it is bad. You and many of the other folks on this forum never cease to amaze me with the breadth and depth of your knowledge!

I negotiated a discount in the price I paid for the antenna tuner, thinking it was only good as a dummy load, antenna switch and perhaps a power meter, although I'm not sure how accurate it is for that purpose.

I will let the forum know what I find out.

Regards,

Jim McPhee
Placitas, NM
KF5BNG
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
Sent: Wednesday, June 17, 2009 10:13 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS-830S-Neutralization question

Hello Jim,

If the MFJ-949 is not displaying reflected power then it is quite possible the 1N34A Germanium diode in the reflected circuit is bad, burnt open. This usually occurs if the power rating of the tuner has been exceeded.

Any Germanium diode that has a voltage and current rating of 65VDC at 50ma will work. Just be sure the diode is installed properly, banded end to the circuit connection shown in the schematic. A crude drawing of a diode is shown below. Note the lead that connects to the vertical line, that is the banded end. Germanium diodes have color bands but the bands will be closest to one lead.

-------|<------ none banded lead this end

You can check the diode with an ohm meter. Connect the ohm meter leads across the diode and note the meter reading. Reverse the ohm meter leads and the ohm meter reading should be different if the diode is good. If the diode is bad, the meter will read the same regardless of how the meter leads are connected across the diode. Diodes conduct in one direction only, that's how they "rectify" AC voltage into "unfiltered pulsating" DC voltage.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com> , "Jim McPhee" <jmcphee@...>
wrote:
>
> Hi Lou,
>
> Thanks for following up. I haven't done much since our recent discussion.
> Reason being that I discovered that the MFJ 949-D antenna tuner that I
> bought (ebay again) has a problem. It does not register any reflected
power
> when transmitting into the G5RV antenna, so I can't determine the SWR. So,
> I'm holding off on things until I get a proper tuner. In the mean time, I
> understand that there is a good ham radio tech nearby in Albuquerque. I
> will track him down and ask him if he can do the neutralization process,
and
> perhaps do an alignment as well. Eventually I would like to acquire the
test
> equipment and the knowledge to do this myself, but now is not the time. I
> just got my Technician license and am studying for General class. I
haven't
> even made a single contact yet!! I'm anxious to get on the air.
>
>
> Regards,
>
> Jim McPhee
> Placitas, NM
> KF5BNG
> From: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
> [mailto:TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of Lou Blasco
> Sent: Wednesday, June 17, 2009 4:12 PM
> To: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
> Subject: RE: [TS-520_820_530_830] Re: TS-830S-Neutralization question
>
>
>
>
>
> Hi Jim,
>
> I wonder how you're going with the 830. A friend of mine did the
> repairs for the local Kenwood agent in my region of Australia. He
> says that in his experience you could replace the tubes in 99.9% of
> radios without any need to neutralize them. He did however follow the
> recommended procedure for tube replacement and complete the
> neutralization step and in most cases he found that TC-1 ended up in

> it's original position or very close to it.
>
> Regards
>
> Lou
> VK3ALB
>
> At 03:18 PM 14/06/2009, you wrote:
> >Hi Jim,
> >
> >The maximum voltage I had from my radio (original set of 2001's) was
> >less than three mV into the 50 ohm load. I did find that the 'best'
> >spot for TC-1 was a broad range of around 50% of it's rotation. Mine
> >was already adjusted to minimum so there was no change before/after.
> >I tried to see if the plates were meshed or not but I couldn't get
> >the right viewing angle due to the cramped conditions. I recall in a
> >previous life I had to work on 15kW pulsed amplifiers used in MRI
> >service. Neutralization was the first step after the tube was
> >changed. From memory, the best adjustment for those tubes was also
> >pretty broad.
> >
> >I doubt that tubes have changed that much that neutralization is no
> >longer required. They're still built to the same specification as 20
> >- 30 or more years ago. It's possible that tube manufacturing
> >tolerances are so close however that one set of tubes has the same
> >characteristics as the next. In that case you 'might' get by without
> >going through the neutralization step. I don't have a lot of
> >practical experience with tube neutralization but I expect the danger
> >is more likely to occur at full power on the higher bands where the
> >small values of inter-electrode capacitance in the tubes come into
> >play at the higher frequencies. Me, I wouldn't do it. Easy for me
> >because I have the test gear to do the job.
> >
> >How do you know if your neutralization is correct? You need to
> >measure the leakage with no power applied to the PA. You could tune
> >your receiver around the 10m band while you have the send switch on
> >and see if you can hear other signals from the 830. Put all the
> >covers on and listen around. I expect that the received signal on
> >28.5MHz should be quite low (S1 or less) and there should be nothing
else.
> >
> >If you really can't get a hold of some test equipment, do you at
> >least have a multimeter? You could whip up a little rf probe adapter
> >that although not accurate will probably give you at least some
> >indication of RF at the aerial socket.
> >
> >http://www.google.com.au/search?hl=en
> <http://www.google.com.au/search?hl=en
<http://www.google.com.au/search?hl=en&safe=off&num=50&newwindow=1&q=rf+prob
> &safe=off&num=50&newwindow=1&q=rf+prob

> e+circuit&btnG=Search&meta=>
> &safe=off&num=50&newwindow=1&q=rf+probe+circuit&btnG=Search&meta=
> >
> >I tried connecting the receiver directly to the 520 via an attenuator
> >& coax but the radiation from the 520 was getting into the radio from
> >all over so it was impossible to use my receiver as some kind of
> >selective volt meter. Probably says more about my receiver than it
> >does about the testing technique.
> >
> >Maybe someone else has other ideas about how you can complete this
> >task. It must be really frustrating considering this is normally a
> >two minute job.
> >
> >Lou
> >VK3ALB
> >
> >
> >At 12:53 PM 14/06/2009, you wrote:
> > >Lou,
> > >
> > >Yes, I am a new member, so maybe my posts are being "reviewed?" prior
to
> > >being released to the forum. I'll be patient and hope that I'm given
> > >"trusted poster" status soon.
> > >
> > >Wow. What can I say? You went to a lot of trouble to validate or
> > >invalidate Kenwood's (alternate) process. It sounds like the process of
> > >monitoring a signal on an adjacent receiver to set the lowest voltage
of
> the
> > >neutralization circuit may be suspect.
> > >
> > >I had a email off-line from another forum member who had the same
> experience
> > >you and I had. He elected to proceed to use his new tubes and has been
> > >transmitting successfully for several months now, perhaps(and I
> acknowledge
> > >this is not a scientific conclusion) indicating that the new tubes did
> not
> > >require any neutralization. The questions begs to be asked, is there a
> way
> > >to determine the success or failure of the neutralization process? How
> does
> > >one determine, with a high degree of certainty, that a transmitter is,
or
> > >isn't, generating spurious emissions following the fitment of new final
> amp
> > >tubes. We know Kenwood thought enough of their process to document it
in
> > >their manual, so maybe what we are seeing are situations where tubes

are
> of
> > >such high quality or closely matched tolerances that neutralization is
> not
> > >an issue.
> > >
> > >The process calls for the voltage to be set at the lowest measurable
> > >setting. What did you find to be the range between the highest
measurable
> > >voltage and the lowest while having your meter connected? Was there a
> > >significant difference? Did you find that the base setting, before you
> > >adjusted TC-1, was the lowest, or did you end up at a different setting
> when
> > >you were done than when you began?
> > >
> > >Once again, I'm glad you duplicated the process I followed and posted
> your
> > >results. Thanks for going to the trouble.
> > >
> > >Regards,
> > >
> > >Jim McPhee
> > >Placitas, NM
> > >KF5BNG
> > >From: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > >[mailto:TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of Lou Blasco
> > >Sent: Saturday, June 13, 2009 6:26 PM
> > >To: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > >Subject: RE: [TS-520_820_530_830] Re: TS-830S-Neutralization question
> > >
> > >
> > >
> > >
> > >
> > >Hi Jim,
> > >
> > >Firstly to your delayed posts. I'm not sure if you're a new member or
> > >not but it could be that your membership has the "moderation" button
> > >selected. I had this with a couple of other Yahoo sites that I've
> > >joined. My posts would be delayed for hours or even days. After a few
> > >emails back and forth to the moderators it was finally sorted out.
> > >Seems there's something funny with the way Yahoo profiles are
configured.
> > >

> > >On the topic of 28.5MHz, I think you're right, Kenwood know what
> > >they're doing. My suggestion to look for spurii with your receiver
> > >was plain nonsense. So I went out into the shack this morning and
> > >replicated your test configuration. I used a Kenwood 520S, a Kenwood
> > >R2000 receiver (no aerial and the SO-239 unterminated) and my AT200
> > >dummy load. I also prepared an electronic RF millivolt meter with 50
> > >ohm terminated load. The receiver was on the same desk as the 520S
> > >two feet away. I tuned up into the load and tuned the receiver so I
> > >could detect the signal (about S9 +20dB) with the SEND switch on.
> > >
> > >Then I turned off the filaments and the SG switch and hit SEND. The
> > >signal was barely audible and the meter moved maybe half an S point
> > >(around S1). Next step was to remove the covers and go through the
> > >neutralization procedure. Well there it was. With the covers off I
> > >had an S7 signal on the receiver. I agree with Richard that the
> > >signal you're receiving is radiated from inside the 830 rather than
> > >the aerial connector of your 830.
> > >
> > >I found the same thing you did. No matter where TC-1 was set the
> > >receiver showed the same signal strength. I then connected the RF
> > >millivolt meter in place of the AT200 and adjusted TC-1 for minimum
> > >output from the 520S. I measured less than 1mV into a 50 ohm
> > >termination. The S meter on the receiver did not move. The small
> > >adjustment made with TC-1 has no impact on the radiated signal from
> > >the unshielded 830.
> > >
> > >My conclusion is that there is no way you can run the neutralization
> > >procedure with your test configuration.
> > >
> > >So your original question was "Do I have a problem with my 830"?
> > >Probably not but you need to find a way to confirm that your PA is
> > >correctly neutralized. Is there any chance you could borrow a 'scope
> > >or RF voltmeter?
> > >
> > >Regards
> > >
> > >Lou
> > >VK3ALB
> > >
> > >At 13:49 13/06/2009, you wrote:
> > > >Lou,
> > > >
> > > >As I indicated, I am a novice at this, although I have some
background
> in
> > > >radios and communications thanks to the USN some years back.
> > > >
> > > >The only deviation the "alternate" process takes from Kenwood's
> documented
> > > >"primary" process is to use the s-meter on the nearby receiver as

> opposed
> > >to
> > > >using a RF voltmeter. Why the Kenwood engineers specified 28.500 as
the
> > > >frequency of choice for the neutralization process I sure don't know,
> BUT
> > > >I've got to think that if they could engineer a transceiver as good
as
> > >these
> > > >hybrids that they knew what they were doing. There's only one
> > > >neutralization pot, and only 360 degrees on it, and no access port
> through
> > > >the bottom of the case (the case needs to be removed to access it) so
> you
> > > >have to make your adjustments before putting the case back on. How
one
> > > >would make different adjustments(if that's what you're suggesting)
> between
> > > >10 and 160 meter bands I don't know. Seems like you "could" chase it
> all
> > > >over the place on the different bands. Tuning the pot to the lowest
> > > >voltage or signal level on another receiver is Kenwood's
> > documented process
> > > >and the one I will follow until I know or am told of a better one.
> > > >
> > > >Here is the process that Ken at K4EAA.COM recommends on his website:
> > > >
> > > >How can I Neutralize my Finals?
> > > >Neutralization is the process of compensating for the inter-electrode
> > > >capacitance of the final tubes. It helps prevent the tubes from
> > > >oscillating, and allows them to perform as a stable amplifier. Here
is
> a
> > > >simple sequence for neutralizing your finals:
> > > >(1) Tune up normally into a dummy load on 10M, perhaps 28.1 MHz
> > > >(2) Turn your SG (Screen Grid voltage) switch OFF. This effectively
> turns
> > > >off your finals, and will prevent them from putting any power into
your
> > > >measurement setup.
> > > >(3) If your dummy load has external connections to monitor the RF it
is
> > > >seeing, use those - Otherwise, remove the dummy load and replace it
> with a
> > > >50 ohm resistor (47 or 51 Ohms, 1/2W will work fine) that is
> > mounted onto a
> > > >PL-259 Plug. During neutralization there is no significant power in
the
> > > >load, so use what's handy.
> > > >(4) Using an RF millivoltmeter or oscilloscope with at least 20MHz

> > > >bandwidth, connect it across the small 50 Ohm test load. A 20MHz
> > scope will
> > > >display 28 MHz adequately, although it won't accurately measure the
RF
> > > >voltage present. That's OK, because when we neutralize, we're
> > simply tuning
> > > >for minimum output.
> > > >(5) Key the rig and observe the output voltage on your RF VTVM or
> Scope.
> > > >This is the drive power "leaking through" to the load with the finals
> > > >inoperative. Our goal here is to minimize this leakage, and in
> > doing so, we
> > > >will ne "neutralizing" the inter-electrode capacitance.
> > > >(6) Using an INSULATED tool, either plastic or a carved wooden dowel,
> tune
> > > >the neutralization capacitor for minimum output. You should be able
to
> get
> > > >down to 10 millivolts or so. There is LOTS of voltage present, so
don't
> > > >even THINK about using a metallic tool!! You will spark and arc and
> create
> > > >all manner of scarey fireworks if you do - Not to mention perhaps
> joining
> > > >the ranks of the SK's . . .
> > > >Don't forget to return your SG switch to ON for normal operation.
> > > >Same basic process, just a slightly lower 10 meter frequency with the
> > >option
> > > >of using a scope to tune for a minimum output.
> > > >
> > > >In answer to your question about the nearby receiver, it was truly
> that.
> > > >Sitting a couple of feet away with no physical connection. Once I had
> hit
> > > >the send switch on the 830S, the other receiver picked up the signal
> from
> > > >the 830S. I adjusted the RF gain on that other receiver to align
> > the needle
> > > >with a reference point, say the s7 mark. My thinking was I would have
a
> > > >reference point so I could watch for any deviation above or
> > below that mark
> > > >with a goal of setting the neutralization pot so that the needle on
the
> > > >other receiver was at its lowest point. Trouble is there was no
lowest
> > > >point; in fact there was no deviation at all.
> > > >
> > > >Regards,
> > > >

> > > >Jim McPhee
> > > >Placitas, NM
> > > >C23, Therapy
> > > >From: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > ><mailto:TS-520_820_530_830%40yahoogroups.com>
> > > >[mailto:TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > ><mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of Lou Blasco
> > > >Sent: Friday, June 12, 2009 5:12 PM
> > > >To: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > ><mailto:TS-520_820_530_830%40yahoogroups.com>
> > > >Subject: Re: [TS-520_820_530_830] Re: TS-830S-Neutralization question
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >Hi Jim,
> > > >
> > > >I understand the process you followed and why but imagine that your
> > > >PA was spurious at say 22MHz. Your receiver tuned to 28.5MHz wouldn't
> > > >(shouldn't) indicate anything. No matter how you adjust TC-1 your
> > > >testing arrangement would not help you to reduce the 22MHz spurious.
> > > >
> > > >I can't explain why that procedure is in the book (maybe the PA is
> > > >prone to spurii at 28.5MHz) but certainly a 'scope or RF voltmeter
> > > >would help confirm the PA was stable. Perhaps you can borrow some
> > > >gear from a local club or amateur?
> > > >
> > > >You indicate you've made some kind of reference measurement on your
> > > >receiver. What do you mean and does it change when you hit the send
> > > >switch. If so what do you read on receiver and transmit? Also, is the
> > > >receiver connected to the 830 or really just sitting nearby with no
> > > >aerial connection?
> > > >
> > > >As I write I'm thinking that even if you can't find a scope or RF
> > > >voltmeter you could use the receiver to look for spurrii by tuning up
> > > >and down the bands whilst toggling the send switch on the 830. Lots
> > > >more work for you but it should help put your mind at rest.
> > > >
> > > >Regards
> > > >
> > > >Lou
> > > >VK3ALB
> > > >

> > > >At 03:27 13/06/2009, you wrote:
> > > > >Mike,
> > > > >
> > > > >Thanks for your response. I tried to be very precise in describing
> > > > >the process I followed just so there would be no question about it,
> > > > >but let me try again.
> > > > >
> > > > >I know what the purpose of the neutralization process is.
> > > > >
> > > > >I followed the process (or the alternate process, perhaps) as
> > > > >defined in the instruction manual on page 28. I didn't make the
> process
> > > >up.
> > > > >
> > > > >The manual says, after describing how to proceed if you have a
> > > > >"sensitive RF milli-voltmeter", and I quote:
> > > > >
> > > > >"A receiver tuned to 28.5 MHz works very well for neutralizing if
an
> > > > >RF voltmeter is not available. Instead of tuning for a minimum
> > > > >voltage, tune for a minimum S-meter reading."
> > > > >
> > > > >An RF voltmeter is not available (no scope, either) , so I followed
> > > > >the above process. I did not adjust anything other than the
> > > > >neutralization pot (with a plastic screwdriver) once the
transmitter
> > > > >was tuned up and I began the neutralization process. So, the
question
> > > >remains:
> > > > >
> > > > >Rotation of the neutralization pot (TC-1) has no effect on the
> > > > >signal strength as displayed on the s-meter of a nearby receiver
> > > > >following the process outlined in the instruction manual. Does this
> > > > >indicate a problem?
> > > >
> > > >
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> > > >[Non-text portions of this message have been removed]
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21501. Re: [TS-520_820_530_830] Extension Feet

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-18 04:45:56 UTC
From: martin
Topic: 21484 Message: 21501

Hi. I use two 1" square blocks of wood painted flat black under the
feet of my TS-530S. I did not get the extension feet with it. If 1" is
too much, I an sure you can find something at a home improvement store.
Maybe some PVC or copper pipe caps could have a hole drilled and be
painted black.

TTYL

sceneryguru wrote:
> Good Morning Group:
>
> I think the subject line kind of says it all. The original part number is J02-0049-004. Kenwood was kind enough to include these in most all new equipment accessory part bags. I currently find myself with 3 UP and 2 DOWN. So the object of my request / search is for 2 sets of foot extensions to balance out the operating position.
>
> Any constructive comments are welcome.
>
> TNX & 73
>
> Tom G, Sr.
> K3SSSB
>
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to: www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at
http://www.defectivebydesign.org/what_is_drm"
Q. What's the difference between Batman and Bill Gates?
A. When Batman fought the Penguin, he won.

21502. Re: [TS-520_820_530_830] Extension Feet

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-18 05:51:51 UTC
From: Ruben Echevarria
Topic: 21484 Message: 21502

Home Depot sells feet .....
 Ruben Echevarria KA2HHB
SKCC #2132 EPC#3390 070 Club#861
10-10 International Club #33308
30Meter Digital Group #1148

[Non-text portions of this message have been removed]

21503. Re: [TS-520_820_530_830] TS830 rectifier diodes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-18 07:54:33 UTC
From: richard.bown@blueyonder.co.uk
Topic: 21485 Message: 21503

Robert DROGOUL wrote:
>
>
>
> Hi Gordon
> Just try 1N2007 diodes. They are 1000 V peak inverse voltage breakdown
> and 1 amp direct curent!
> 73
> F5UL - Robert DROGOUL
> Ref-Union - ARRL - NAQCC - Loc : JN35BV
>

I think you meant 1N4007, there is a 1N2007 but the package is strange.
If you want something bomb proof try a 1N5408, 3A, 1000V, watch the lead
diameter as the leads are 1.5mm in diameter, compared to 0.8 mm for a
1N4007. They both cost next to nothing.

--
Best wishes

Richard Bown

##
Registered Linux User 36561
OS: Mandriva 2009.1 x86_64, on AMD Dual Athlon 64 +4400: 8 GB RAM DDR2
Ham Call: G8JVM , QRA IO82SP, Interests Microwave
##

21504. Re: [TS-520_820_530_830] Extension Feet

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-18 08:05:24 UTC
From: richard.bown@blueyonder.co.uk
Topic: 21484 Message: 21504

```
martin wrote:
>
>
>
> Hi. I use two 1" square blocks of wood painted flat black under the
> feet of my TS-530S. I did not get the extension feet with it. If 1" is
> too much, I an sure you can find something at a home improvement store.
> Maybe some PVC or copper pipe caps could have a hole drilled and be
> painted black.
>
> TTYL
>
Have a look at insulated pillars , these have threaded bushes one end
and a threaded stud the other.
they are available in various lengths, both white and black from various
suppliers, Digikey ect.
On the nut insert you can push in one of the small mushroom shaped feet.

--
Best wishes

Richard Bown

##########################################################################
Registered Linux User 36561
OS: Mandriva 2009.1 x86_64, on AMD Dual Athlon 64 +4400: 8 GB RAM DDR2
Ham Call: G8JVM , QRA IO82SP, Interests Microwave
#########################################################################
```

21505. Re: [TS-520_820_530_830] TS830 rectifier diodes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-18 08:26:21 UTC
From: Gordon JC Pearce
Topic: 21485 Message: 21505

On Thu, 2009-06-18 at 08:54 +0100, richard.bown@... wrote:

> I think you meant 1N4007, there is a 1N2007 but the package is strange.
> If you want something bomb proof try a 1N5408, 3A, 1000V, watch the lead
> diameter as the leads are 1.5mm in diameter, compared to 0.8 mm for a
> 1N4007. They both cost next to nothing.

I've actually got both, but it wasn't me that was having the problem ;-)

I use them as my "general purpose" PSU diodes in things like synthesizers, amplifiers and the like. "But why do you use a 1000V diode for a 7V power supply, Gordon?" Because a pack of 500 was a couple of quid on eBay, mostly ;-)

It would cost more to post some from the UK to the original poster than it would to buy them on eBay.

Gordon 2M0YEQ

21506. RE: [TS-520_820_530_830] Re: TS-830S-Neutralization question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-18 08:35:00 UTC
From: Gordon JC Pearce
Topic: 21417 Message: 21506

On Wed, 2009-06-17 at 22:24 -0600, Jim McPhee wrote:

> I negotiated a discount in the price I paid for the antenna tuner, thinking
> it was only good as a dummy load, antenna switch and perhaps a power meter,
> although I'm not sure how accurate it is for that purpose.

I borrowed an MFJ-949 and found that its SWR meter was pretty sensitive,
and its power meter was reasonably accurate. The actual tuner bit was a
little fiddly to use, but unless you're using a horribly mismatched
antenna (like, oh, a G5RV) you don't really need to bother much with a
hybrid rig. The pi network in the PA can deal with a pretty wide range
of mismatches - someone said about 3:1, but I don't know how accurate
that is. Certainly it has no trouble at all matching a very roughly cut
dipole for 20m.

Gordon

21507. Re: [TS-520_820_530_830] Extension Feet

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-18 10:03:47 UTC
From: wa4tc
Topic: 21484 Message: 21507

Take a smal pvc pipe to the desire lenght and you can also add and angle to by sanding it off wa4tc
----- Original Message -----
From: martin
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, June 18, 2009 12:45 AM
Subject: Re: [TS-520_820_530_830] Extension Feet

Hi. I use two 1" square blocks of wood painted flat black under the
feet of my TS-530S. I did not get the extension feet with it. If 1" is
too much, I an sure you can find something at a home improvement store.
Maybe some PVC or copper pipe caps could have a hole drilled and be
painted black.

TTYL

sceneryguru wrote:
> Good Morning Group:
>
> I think the subject line kind of says it all. The original part number is J02-0049-004. Kenwood was kind enough to include these in most all new equipment accessory part bags. I currently find myself with 3 UP and 2 DOWN. So the object of my request / search is for 2 sets of foot extensions to balance out the operating position.
>
> Any constructive comments are welcome.
>
> TNX & 73
>
> Tom G, Sr.
> K3SSSB
>
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to: www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at
http://www.defectivebydesign.org/what_is_drm"
Q. What's the difference between Batman and Bill Gates?
A. When Batman fought the Penguin, he won.

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.339 / Virus Database: 270.12.76/2183 - Release Date: 06/17/09 05:53:00

[Non-text portions of this message have been removed]

21508. Re: [TS-520_820_530_830] Extension Feet

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-18 17:36:19 UTC
From: Walter A. Breining
Topic: 21484 Message: 21508

If the correct size is chosen, rubber feet that go on the ends of canes and walkers will slide over the existing feet to extend them. These can be obtained at Ace Hardware, Wall Mart, and most drug stores.

Vy 73, Walt N9WB

----- Original Message -----
From: wa4tc
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, June 18, 2009 5:03 AM
Subject: Re: [TS-520_820_530_830] Extension Feet

Take a smal pvc pipe to the desire lenght and you can also add and angle to by sanding it off wa4tc
----- Original Message -----
From: martin
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, June 18, 2009 12:45 AM
Subject: Re: [TS-520_820_530_830] Extension Feet

Hi. I use two 1" square blocks of wood painted flat black under the
feet of my TS-530S. I did not get the extension feet with it. If 1" is
too much, I an sure you can find something at a home improvement store.
Maybe some PVC or copper pipe caps could have a hole drilled and be
painted black.

TTYL

sceneryguru wrote:
> Good Morning Group:
>
> I think the subject line kind of says it all. The original part number is J02-0049-004. Kenwood was kind enough to include these in most all new equipment accessory part bags. I currently find myself with 3 UP and 2 DOWN. So the object of my request / search is for 2 sets of foot extensions to balance out the operating position.
>
> Any constructive comments are welcome.
>
> TNX & 73
>
> Tom G, Sr.
> K3SSSB
>
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

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Q. What's the difference between Batman and Bill Gates?
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[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

21509. Update on my TS 830S woes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-18 16:54:44 UTC
From: Bopal
Topic: 21509 Message: 21509

I thought that my very low power out problem was one or more blown rectifier diodes in the 800V circuit but maybe not.

While waiting the arrival of new diodes I disconnected the AC800, AC400, AC300 and AC120 lines. All measure low (~10% from nominal) and show distortion. They are not sinusoidal but halfway to trapezoidal, rounded top and bottom but nearly linear sides.

Is my transformer blown? Does anyone have DCR readings for the windings?

73

John, W1JGB

21510. TS-830 METER LIGHT

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-18 16:04:40 UTC
From: wa4tc
Topic: 21510 Message: 21510

I"ve open up my 830S as now but this morning the meter light when south to die. Has any one replace one before and any tips and what are they and are they hard to find. Just asking before I pull out the chainsaw Oh Yeah!!!! Thanks Ted
please reply direct to wa4tc@...

[Non-text portions of this message have been removed]

21511. Re: TS-830 METER LIGHT

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-18 18:43:12 UTC
From: w5rkl
Topic: 21510 Message: 21511

Hello Ted,

I know of at least 2 outlets. See below.

1. Ken, at www.k4eaa.com

or

2. Radio Shack

There may be other outlets such as Mouser Electronics, Allied
Electronics, etc.

If you choose Radio Shack, the part number is 272-1141, 12 volt 25ma
lamp. If you decide on Radio Shack and your local Radio Shack does
not have them in stock, they can order them for you and have them
shipped to your house. You pay upfront and wait 3 to 5 days for
the shipment to arrive.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "wa4tc" <wa4tc@...> wrote:
>
> I"ve open up my 830S as now but this morning the meter light when south to die. Has any one replace one before and any tips and what are they and are they hard to find. Just asking before I pull out the chainsaw Oh Yeah!!!! Thanks Ted
> please reply direct to wa4tc@...
>
> [Non-text portions of this message have been removed]
>

21512. Re: Update on my TS 830S woes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-18 19:07:57 UTC
From: w5rkl
Topic: 21509 Message: 21512

John,

I do not have the DC resistance values for each winding.

A blown/bad over heated transformer has a distinct smell to it,
a smell you cannot mistake for anything else. In most cases,
not all, an overheated blown transformer will usually blow the
fuse every time power is applied to the primary.

If the transformer does not cause the fuse to blow, it doesn't
heat up simply idling (receive), then I doubt the transformers
bad.

Did you check the DC voltages at the output of the Rectifier
Unit before you disconnected the windings from the Rectifier Unit?
That would give you an indication whether the proper DC voltages are
being produced. The voltages measured at the Rectifier Unit's output
pins may vary depending on the primary AC voltage applied to the
transformer's primary windings.

This may sound silly but, did you change the transformer's primary
wiring, i.e. from 120 to 240? I'm going to assume you didn't but I
had to ask.

See the files section of this forum under "Save Your Power
Transformer" for a quick way to determine whether your transformer
is bad or not.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Bopal" <bopal@...> wrote:
>
> I thought that my very low power out problem was one or more blown rectifier diodes in
the 800V circuit but maybe not.
>
> While waiting the arrival of new diodes I disconnected the AC800, AC400, AC300 and AC120
lines. All measure low (~10% from nominal) and show distortion. They are not sinusoidal but
halfway to trapezoidal, rounded top and bottom but nearly linear sides.
>
> Is my transformer blown? Does anyone have DCR readings for the windings?
>
> 73
>
> John, W1JGB
>

21513. Re: Update on my TS 830S woes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-18 20:40:33 UTC
From: Bopal
Topic: 21509 Message: 21513

In following up on my other thread on this problem I checked the HV filter caps, one is bad. That is likely the problem. I have ordered a replacement from Ken at K4EAA.COM.

Thanks all. I plan to be back on the air next week.

73

John, W1JGB

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> John
>
> I do not have the DC resistance values for each winding.
>
> A blown/bad over heated transformer has a distinct smell to it,
> a smell you cannot mistake for anything else. In most cases,
> not all, an overheated blown transformer will usually blow the
> fuse every time power is applied to the primary.
>
> If the transformer does not cause the fuse to blow, it doesn't
> heat up simply idling (receive), then I doubt the transformers
> bad.
>
> Did you check the DC voltages at the output of the Rectifier
> Unit before you disconnected the windings from the Rectifier Unit?
> That would give you an indication whether the proper DC voltages are
> being produced. The voltages measured at the Rectifier Unit's output
> pins may vary depending on the primary AC voltage applied to the
> transformer's primary windings.
>
> This may sound silly but, did you change the transformer's primary
> wiring, i.e. from 120 to 240? I'm going to assume you didn't but I
> had to ask.
>
> See the files section of this forum under "Save Your Power
> Transformer" for a quick way to determine whether your transformer
> is bad or not.
>
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Bopal" <bopal@> wrote:
> >
> > I thought that my very low power out problem was one or more blown rectifier diodes in the 800V circuit but maybe not.

> >
> > While waiting the arrival of new diodes I disconnected the AC800, AC400, AC300 and AC120 lines. All measure low (~10% from nominal) and show distortion. They are not sinusoidal but halfway to trapezoidal, rounded top and bottom but nearly linear sides.
> >
> > Is my transformer blown? Does anyone have DCR readings for the windings?
> >
> > 73
> >
> > John, W1JGB
> >
>

21514. Re: Update on my TS 830S woes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-18 21:25:26 UTC
From: w5rkl
Topic: 21509 Message: 21514

Glad you found the culprit that is causing HV problems. I
recommend replacing "both" HV caps, not just one. I assume
you have order the "kit" from Ken, K4EAA. If so then that's
the best route to take, replace both caps.

You should also replace the 470K 1/2 watt equalizing/bleeder
resistors and the .001ufd 500VDC disc capacitors as well.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Bopal" <bopal@...> wrote:
>
> In following up on my other thread on this problem I checked the HV filter caps, one is bad. That is likely the problem. I have ordered a replacement from Ken at K4EAA.COM.
>
> Thanks all. I plan to be back on the air next week.
>
> 73
>
> John, W1JGB
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > John
> >
> > I do not have the DC resistance values for each winding.
> >
> > A blown/bad over heated transformer has a distinct smell to it,
> > a smell you cannot mistake for anything else. In most cases,
> > not all, an overheated blown transformer will usually blow the
> > fuse every time power is applied to the primary.
> >
> > If the transformer does not cause the fuse to blow, it doesn't
> > heat up simply idling (receive), then I doubt the transformers
> > bad.
> >
> > Did you check the DC voltages at the output of the Rectifier
> > Unit before you disconnected the windings from the Rectifier Unit?
> > That would give you an indication whether the proper DC voltages are
> > being produced. The voltages measured at the Rectifier Unit's output
> > pins may vary depending on the primary AC voltage applied to the
> > transformer's primary windings.
> >
> > This may sound silly but, did you change the transformer's primary
> > wiring, i.e. from 120 to 240? I'm going to assume you didn't but I
> > had to ask.

> >
> > See the files section of this forum under "Save Your Power
> > Transformer" for a quick way to determine whether your transformer
> > is bad or not.
> >
> > Mike W5RKL
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Bopal" <bopal@> wrote:
> > >
> > > I thought that my very low power out problem was one or more blown rectifier diodes in the 800V circuit but maybe not.
> > >
> > > While waiting the arrival of new diodes I disconnected the AC800, AC400, AC300 and AC120 lines. All measure low (~10% from nominal) and show distortion. They are not sinusoidal but halfway to trapezoidal, rounded top and bottom but nearly linear sides.
> > >
> > > Is my transformer blown? Does anyone have DCR readings for the windings?
> > >
> > > 73
> > >
> > > John, W1JGB
> > >
> >
>

21515. Re: [TS-520_820_530_830] Update on my TS 830S woes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-18 20:49:23 UTC
From: AC2AD
Topic: 21509 Message: 21515

Soft hv caps
>
>
> I thought that my very low power out problem was one or more blown
> rectifier diodes in the 800V circuit but maybe not.
>
> While waiting the arrival of new diodes I disconnected the AC800,
> AC400, AC300 and AC120 lines. All measure low (~10% from nominal) and
> show distortion. They are not sinusoidal but halfway to trapezoidal,
> rounded top and bottom but nearly linear sides.
>
> Is my transformer blown? Does anyone have DCR readings for the windings?
>
> 73
>
> John, W1JGB
>
>

21516. Re: [TS-520_820_530_830] Re: Update on my TS 830S woes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-18 21:44:30 UTC
From: Gordon JC Pearce
Topic: 21509 Message: 21516

On Thu, 2009-06-18 at 21:25 +0000, w5rkl wrote:
> Glad you found the culprit that is causing HV problems. I
> recommend replacing "both" HV caps, not just one. I assume
> you have order the "kit" from Ken, K4EAA. If so then that's
> the best route to take, replace both caps.
>
> You should also replace the 470K 1/2 watt equalizing/bleeder
> resistors and the .001ufd 500VDC disc capacitors as well.

... and the diodes too. Those caps didn't fail just for no reason at
all.

Gordon 2M0YEQ

21517. Re: Extension Feet

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-18 21:59:47 UTC
From: m j synowiec
Topic: 21484 Message: 21517

Hi to All & I hope this finds you well,

This may seem to be an obvious solution but it is the path I followed to get the angled front look for my 830. If your 830 came with all 4 stock feet on the cabinet(fore & aft) you can simply take the feet from the rear position and get the appropriate metric hardware to connect them to the front feet. I then used self-adhesive 1"X 1/2" round feet I got at Lowe's or Home Depot (I don't remember which) on the rear of the unit & I had an OEM look. It doesn't matter what kind of feet you use on the rear as long as they aren't too tall (it spoils the angled look) and as long as you use the same size feet throughout. I realize that most of the hybrids floating around have had multiple owners & yours might not have all 4 original feet, but if you find yourself with all 4 this will solve your problem. I have also seen original Kenwood feet and hardware on flea-bay but the price with shipping is usually prohibitive(not to mention unreal).

I hope I've offered a solution to some and an alternative to all;

PS up here in 8 land 10m & 6m have been very open for the last few weeks. Give it a listen & more importantly call CQ you may be pleasantly surprised.

Vy 73,
Mike K8SYN

--- In TS-520_820_530_830@yahoogroups.com, "Walter A. Breining" <n9wb@...> wrote:
>
> If the correct size is chosen, rubber feet that go on the ends of canes and walkers will slide over the existing feet to extend them. These can be obtained at Ace Hardware, Wall Mart, and most drug stores.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: wa4tc
> To: TS-520_820_530_830@...m
> Sent: Thursday, June 18, 2009 5:03 AM
> Subject: Re: [TS-520_820_530_830] Extension Feet
>
>
>
>
>
>
> Take a smal pvc pipe to the desire lenght and you can also add and angle to by sanding it off wa4tc
> ----- Original Message -----
> From: martin
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, June 18, 2009 12:45 AM

> Subject: Re: [TS-520_820_530_830] Extension Feet
>
> Hi. I use two 1" square blocks of wood painted flat black under the
> feet of my TS-530S. I did not get the extension feet with it. If 1" is
> too much, I an sure you can find something at a home improvement store.
> Maybe some PVC or copper pipe caps could have a hole drilled and be
> painted black.
>
> TTYL
>
> sceneryguru wrote:
> > Good Morning Group:
> >
> > I think the subject line kind of says it all. The original part number is J02-0049-004. Kenwood was kind enough to include these in most all new equipment accessory part bags. I currently find myself with 3 UP and 2 DOWN. So the object of my request / search is for 2 sets of foot extensions to balance out the operating position.
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> > Any constructive comments are welcome.
> >
> > TNX & 73
> >
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> > K3SSSB
> >
> >
> >
>
> --
> CUL8R
>
> KBOHAE kb0hae@... Martin Campbell
>
> A Satisfied Sidux Linux user! To get Sidux go to: www.sidux.com/index.html
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>
> [Non-text portions of this message have been removed]
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>

>
> [Non-text portions of this message have been removed]
>

21518. CW is off freq..

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-19 06:06:28 UTC
From: chuck_meilicke
Topic: 21518 Message: 21518

Hi there im new to the group. I just got my 820s today. Only a few glitches Im wondering about. CW is out of feq with other radios .if there is a qso on 7.12 i recieve it around 7.11. Wondering if there is an easy fix to alighn this. Also after transmit the receive seems to hang a touch..if i click the push to talk a few times recieve comes back up.Im guessing thats the tr relay.can this be cleaned up or do i need to replace it..be easy on me im a rookie out here..thanks chuck kb9mvw

21519. New Member

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-19 13:35:03 UTC
From: Louis Perley
Topic: 133 Message: 21519

Hello all,
I just picked up the following setup:

TS-830S Transceiver with 500hz filter
MC-50 desk mic
TS-220 Station Monitor
SP-230 Speaker with filtration
VF_240 External VFO
AT-230 Tuner
all in great condition.

I'm still in the process of reading the various manuals, but I think I found myself a pretty nice setup. Looking forward to reading the old messages in the group for tips, tricks, etc. I see that in the files section is the updated tuning procedure that everyone seemed to tell me about. Just wanted to say hello to everyone and hope to be talking to folks on the air here soon!

-Louis, KC0VJE

21520. Re: [TS-520_820_530_830] New Member

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-19 16:23:52 UTC
From: Adrian Ellison
Topic: 133 Message: 21520

Hi Louis,

That's quite a find, full house !!

Welcome to the group, you'll find plenty of knowledgeable people here who will gladly assist you if you run into any difficulties.

73

Adrian - ZS1TTZ

On Friday 19 June 2009 15:35:03 Louis Perley wrote:
> Hello all,
> I just picked up the following setup:
>
> TS-830S Transceiver with 500hz filter
> MC-50 desk mic
> TS-220 Station Monitor
> SP-230 Speaker with filtration
> VF_240 External VFO
> AT-230 Tuner
> all in great condition.
>
> I'm still in the process of reading the various manuals, but I think
> I found myself a pretty nice setup. Looking forward to reading the
> old messages in the group for tips, tricks, etc. I see that in the
> files section is the updated tuning procedure that everyone seemed to
> tell me about. Just wanted to say hello to everyone and hope to be
> talking to folks on the air here soon!
>
> -Louis, KC0VJE

21521. Re: CW is off freq..

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-19 19:50:37 UTC
From: w5rkl
Topic: 21518 Message: 21521

Hello chuck,

If CW is slightly off frequency, more than likely the CAR UNIT needs aligned. The adjustment is in the 820 service manual which can be downloaded free from N6WK's website:

http://www.n6wk.com/kenwood/

The adjustment is located on page 45. However, if you have never done this type of adjustment before then may I suggest finding a local ham who has the skills. If the CAR UNIT is improperly adjusted, both transmit AND receive will be affected.

The receiver sensitivity appears to be caused by a dirty relay RL-1. This relay is located on the bottom side of the 820 between the final amplifier PC board and the rear panel. With the 820's front panel facing you and the 820 upside down, you will see a small metal enclosure between the final PC board and the rear panel. The metal enclosure must be removed to gain access to the relay. Looking down on the metal enclosure you will see 2 screws holding the enclosure to the chassis. You may have to remove the SG slide switch from the rear panel. If so, remove both screws holding the slide switch to the rear panel and gently move the switch towards the front panel. Now, remove both screws holding the metcal enclosure to the chassis and gently remove the enclosure. The relay is a plug in relay so remove it.

To clean the contacts, the outer plastic cover must be removed. This requires a small thin metal screw driver. Be careful as you could break the plastic outer cover. Once the cover is removed use contact cleaner on a piece of paper, slide the paper between the relay contacts. Make sure the contacts are not bent. You may have to do this a couple of times. Once done, use canned air to remove excess contact cleaner then replace the plastic cover. Reverse the removal steps to install the relay and SG slide switch. Check that no wires are broken or pinched between the metal enclosure and/or the SG slide switch metal housing.

If you have any further quesiton simply ask.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "chuck_meilicke" <chuck_meilicke@...> wrote:
>
> Hi there im new to the group. I just got my 820s today. Only a few glitches Im wondering about. CW is out of feq with other radios .if there is a qso on 7.12 i recieve it around 7.11. Wondering if there is an easy fix to alighn this. Also after transmit the receive

seems to hang a touch..if i click the push to talk a few times recieve comes back up.Im guessing thats the tr relay.can this be cleaned up or do i need to replace it..be easy on me im a rookie out here..thanks chuck kb9mvw
>

21522. Re: [TS-520_820_530_830] Re: TS830 No RF out

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-19 20:51:16 UTC
From: rjm dcm
Topic: 21451 Message: 21522

Mike--Thanks for the help. I have the rig up and running with full output. Thanks again!
Russ K8AF

--- On Tue, 6/16/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: TS830 No RF out
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, June 16, 2009, 8:43 AM

Hello Russ,

You can tune the 830 in CW mode. Follow the same procedures as

though you were in TUNE mode except place the MODE switch in CW

and the meter switch to IP. Adjust the DRIVE control for a peak

IP meter reading followed by adjusting the PLATE control for a

dip in IP meter reading. If a significant increase in RF output

is noted then replace R15 and R16 on the Rectifier Unit.

Keep transmission times to less than 10 seconds and IP meter readings

to less than 200ma while using this method.

Mike W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, rjm dcm <rdmegargle@ ...> wrote:

>

> Thanks Mike. I checked R15 and R16 and they each show about 35K ohms. I'll replace them
in the next day or two and report the results.

> Russ

>

> --- On Sun, 6/14/09, w5rkl <w5rkl@...> wrote:

>

>

> From: w5rkl <w5rkl@...>

> Subject: [TS-520_820_ 530_830] Re: TS830 No RF out

> To: TS-520_820_530_ 830@yahoogroups. com

> Date: Sunday, June 14, 2009, 1:32 PM

>

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>

> Hello Russ,

>

> Check R15 and R16 on the Rectifier Unit, both are 56K 1/2 watt.

> These resistor control the level of screen voltage applied to

> the finals in TUNE mode. If these resistors significantly

> change value, the level of final tube screen voltage can be much

> less than normal in TUNE mode resulting in the symptoms you are

> seeing.

>

> Mike W5RKL

>

> --- In TS-520_820_530_ 830@yahoogroups. com, "rdmegargle" <rdmegargle@ ...> wrote:

> >

> > TS-803S

> > This problem came on suddenly. The rig was working great, then the next day, I was unable to get any meter movement in Tune to peak the Drive, and low to zero RF output. The SG switch in "On"

> >

> > When I start the tuning process, the only indication present is the 60 ma plate current reading. I can not get any ALC reading with the drive, or any increased RF output with the Load and Plate controls. HV readings are at 900 V

> >

> > Following Mike's (W5RKL) suggestions ,

> > I replaced R2 â€" R4 and R7 & R8 on the Final board (which was good advice since the values had moved out of tolerance). I also installed a new Driver Tube, replaced C7, C8 & L1 in the Final cage, triple checked the band switch alignment and replaced the cracked plastic shaft coupler.

> >

> > Driver Tube Voltages

> > Pin/Rx/Tx

> > 1/0/6.2

> > 2/-42.3/0.3

> > 7/335/297

> > 8/246/209

> >

> > Final Tube Voltages

> > Pin/Rx/Tx

> > 1&4/0/0.33

> > 3/252/237

> > 5/-99/-55

> >

> > Any additional suggestions? Maybe finals?

> >

> > Russ K8AF

> >

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> [Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

21523. Re: TS830 No RF out

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-19 22:16:45 UTC
From: w5rkl
Topic: 21451 Message: 21523

You're welcome Russ, anytime.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, rjm dcm <rdmegargle@...> wrote:
>
> Mike--Thanks for the help. I have the rig up and running with full output. Thanks again!Â Russ K8AF
>
> --- On Tue, 6/16/09, w5rkl <w5rkl@...> wrote:
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: TS830 No RF out
> To: TS-520_820_530_830@yahoogroups.com
> Date: Tuesday, June 16, 2009, 8:43 AM
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> Hello Russ,
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> IP meter reading followed by adjusting the PLATE control for a
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> dip in IP meter reading. If a significant increase in RF output

>
> is noted then replace R15 and R16 on the Rectifier Unit.
>
>
>
> Keep transmission times to less than 10 seconds and IP meter readings
>
> to less than 200ma while using this method.
>
>
>
> Mike W5RKL
>
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>
> --- In TS-520_820_530_ 830@yahoogroups. com, rjm dcm <rdmegargle@ ...> wrote:
>
> > >
>
> > Thanks Mike. I checked R15 and R16 and they each show about 35K ohms. I'll replace them in the next day or two and report the results.
>
> > Russ
>
> > >
>
> > --- On Sun, 6/14/09, w5rkl <w5rkl@> wrote:
>
> > >
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> > >
>
> > From: w5rkl <w5rkl@>
>
> > Subject: [TS-520_820_ 530_830] Re: TS830 No RF out
>
> > To: TS-520_820_530_ 830@yahoogroups. com
>
> > Date: Sunday, June 14, 2009, 1:32 PM
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> > Hello Russ,
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>
> > Check R15 and R16 on the Rectifier Unit, both are 56K 1/2 watt.
>
> > These resistor control the level of screen voltage applied to
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> > the finals in TUNE mode. If these resistors significantly
>
> > change value, the level of final tube screen voltage can be much
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> > less than normal in TUNE mode resulting in the symptoms you are
>
> > seeing.
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>
> > Mike W5RKL
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> > --- In TS-520_820_530_ 830@yahoogroups. com, "rdmegargle" <rdmegargle@ ...> wrote:
>
> > >
>
> > > TS-803S
>
> > > This problem came on suddenly. The rig was working great, then the next day, I was unable to get any meter movement in Tune to peak the Drive, and low to zero RF output. The SG switch in "On"
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> > >
>
> > > When I start the tuning process, the only indication present is the 60 ma plate current reading. I can not get any ALC reading with the drive, or any increased RF output with the Load and Plate controls. HV readings are at 900 V
>
> > >
>
> > > Following Mike's (W5RKL) suggestions ,
>
> > > I replaced R2 Ã¢â□¬" R4 and R7 & R8 on the Final board (which was good advice since the values had moved out of tolerance). I also installed a new Driver Tube, replaced C7, C8 & L1 in the Final cage, triple checked the band

switch alignment and replaced the cracked plastic shaft coupler.
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> > > Driver Tube Voltages
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> > > Pin/Rx/Tx
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> > > 1/0/6.2
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> > > 2/-42.3/0.3
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> > > 7/335/297
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> > > 8/246/209
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> > >
>
> > > Final Tube Voltages
>
> > > Pin/Rx/Tx
>
> > > 1&4/0/0.33
>
> > > 3/252/237
>
> > > 5/-99/-55
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> > >
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> > > Any additional suggestions? Maybe finals?
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> > > Russ K8AF
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> [Non-text portions of this message have been removed]
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21524. TS-520S Erratic AVC

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-20 00:37:50 UTC
From: scott10k
Topic: 21524 Message: 21524

When in receive with the AVC 3-way switch set to "slow", the AVC action is very jumpy, not much different than when the switch is set to "fast". Any idea what the problem might be and what I should do to correct it?
TNX and 73s,
Scott, N6CIC

21525. Re: [TS-520_820_530_830] TS-520S Erratic AVC

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-20 12:22:18 UTC
From: Dave ve3wej
Topic: 21524 Message: 21525

maybe the switch is wired backwards......

had the switch ever been replaced, or removed to clean and matbe put in
upside down

----- Original Message -----
From: "scott10k" <scottandalene@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, June 19, 2009 8:37 PM
Subject: [TS-520_820_530_830] TS-520S Erratic AVC

> When in receive with the AVC 3-way switch set to "slow", the AVC action is
> very jumpy, not much different than when the switch is set to "fast". Any
> idea what the problem might be and what I should do to correct it?
> TNX and 73s,
> Scott, N6CIC
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> Yahoo! Groups Links
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21526. Re: TS-520S Erratic AVC

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-20 15:43:41 UTC
From: w5rkl
Topic: 21524 Message: 21526

A broken wire or very poor connection from the AGC switch's
"SLOW" switch terminal that connects to the IF UNIT's "AGS"
connection can cause this problem. If the S meter is indicating
signal strength in FAST but rests at zero in OFF, then I suspect
the AGC amplifier is operating properly. What is NOT operating
properly is the "SLOW" position. Again, as I said above, a broken
connection between the AGC "SLOW" switch terminal and the IF UNIT's
"AGS" terminal will cause this to happen.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@...> wrote:
>
> maybe the switch is wired backwards......
>
>
> had the switch ever been replaced, or removed to clean and matbe put in
> upside down
>
>
> ----- Original Message -----
> From: "scott10k" <scottandalene@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Friday, June 19, 2009 8:37 PM
> Subject: [TS-520_820_530_830] TS-520S Erratic AVC
>
>
> > When in receive with the AVC 3-way switch set to "slow", the AVC action is
> > very jumpy, not much different than when the switch is set to "fast". Any
> > idea what the problem might be and what I should do to correct it?
> > TNX and 73s,
> > Scott, N6CIC
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> > Yahoo! Groups Links
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21527. Re: TS-520S Erratic AVC

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-20 15:54:30 UTC
From: w5rkl
Topic: 21524 Message: 21527

If the AGC switch were wired backwards AND assuming that "OFF"
position does what it is suppose to do and AGC amplifiers Q5 and Q6
are performing as they should, FAST setting would produce "SLOW" AGC
and SLOW setting would produce "FAST" AGC.

I suspect a broken or very poor connection between the AGC switch
"SLOW" terminal and the IF UNIT's "AGS" terminal.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@...> wrote:
>
> maybe the switch is wired backwards......
>
>
> had the switch ever been replaced, or removed to clean and matbe put in
> upside down
>
>
> ----- Original Message -----
> From: "scott10k" <scottandalene@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Friday, June 19, 2009 8:37 PM
> Subject: [TS-520_820_530_830] TS-520S Erratic AVC
>
>
> > When in receive with the AVC 3-way switch set to "slow", the AVC action is
> > very jumpy, not much different than when the switch is set to "fast". Any
> > idea what the problem might be and what I should do to correct it?
> > TNX and 73s,
> > Scott, N6CIC
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> > Yahoo! Groups Links
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21528. VFO 820 question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-20 17:36:20 UTC
From: Richard Fuoco
Topic: 21528 Message: 21528

Is a vfo 820 compatible with the TS-530s. If not I'm looking for a VFO-240 if anyone has one they would like to part with. Thanks es 73 Richard KM5WX

[Non-text portions of this message have been removed]

21529. 2N4049

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-20 18:45:36 UTC
From: w9oj@iquest.net
Topic: 21524 Message: 21529

Folks on another list were curious if there are any
reasonably priced replacement transistors available to
replace (or be used to build a new unit) the 2N4049
transistors used in the DC power unit of a TS-520.

Some suggested an NTE28 but Google searches show them
to be $110 which is hardly what I would call reasonable !

73 de Mike W9OJ

21530. Re: [TS-520_820_530_830] VFO 820 question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-20 19:09:14 UTC
From: Steve
Topic: 21528 Message: 21530

If you can find one, a VFO-120 is compatible, similar to the 240 but smaller and usually cheaper.

Steve W4IMF

----- Original Message -----
From: Richard Fuoco
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, June 20, 2009 1:36 PM
Subject: [TS-520_820_530_830] VFO 820 question

Is a vfo 820 compatible with the TS-530s. If not I'm looking for a VFO-240 if anyone has one they would like to part with. Thanks es 73 Richard KM5WX

[Non-text portions of this message have been removed]

Certified Virus Free
Checked by AVG - www.avg.com
Version: 8.5.339 / Virus Database: 270.12.81/2189 - Release Date: 06/20/09 06:15:00

[Non-text portions of this message have been removed]

21531. Re: 2N4049

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-20 19:23:30 UTC
From: Gordon
Topic: 21524 Message: 21531

--- In TS-520_820_530_830@yahoogroups.com, "" <w9oj@...> wrote:
>
> Folks on another list were curious if there are any
> reasonably priced replacement transistors available to
> replace (or be used to build a new unit) the 2N4049
> transistors used in the DC power unit of a TS-520.
>
> Some suggested an NTE28 but Google searches show them
> to be $110 which is hardly what I would call reasonable !
>
> 73 de Mike W9OJ
>

Hi Mike,
I have 4 good used 2N4048 Transistors here. According to my cross reference they and the 2N4049 both cross to the NTE-28.
How many are you looking for? I'll sell all 4 for $100.00

73,
Gordon

21532. Re: [TS-520_820_530_830] 2N4049

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-20 21:06:51 UTC
From: Gordon JC Pearce
Topic: 21524 Message: 21532

On Sat, 2009-06-20 at 14:45 -0400, w9oj@... wrote:
> Folks on another list were curious if there are any
> reasonably priced replacement transistors available to
> replace (or be used to build a new unit) the 2N4049
> transistors used in the DC power unit of a TS-520.
>
> Some suggested an NTE28 but Google searches show them
> to be $110 which is hardly what I would call reasonable !

It's a germanium PNP power tranny. It probably has quite a high collector current and a pathetically low hFE. Since the DC lead is fused at 20A it's probably safe to assume that it can deal with a bit more than 20A although the old saying about the transistor blowing to protect the fuse may apply here ;-)

In the absence of the proper transistor and if it was my own rig, I'd be inclined to try a pair of 2N2955s on the basis that although it's a little under spec for the job it can't be far wrong. The biasing would need adjusted, probably.

I haven't tried running the TS-520 off a more modern inverter, but I suspect the RF noise would be atrocious.

Gordon 2M0YEQ

21533. Re: VFO 820 question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-20 21:20:29 UTC
From: w5rkl
Topic: 21528 Message: 21533

Hello Richard,

The VFO-820 will not work with the TS-530. The TS-530 requires a VFO
that operates between 5.5 and 6Mhz. The VFO-820 operates between
5 and 5.5Mhz.

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Richard Fuoco" <km5wx@...> wrote:
>
> Is a vfo 820 compatible with the TS-530s. If not I'm looking for a VFO-240 if anyone has one they would like to part with. Thanks es 73 Richard KM5WX
>
> [Non-text portions of this message have been removed]
>

21534. Re: Main Dial Calibration

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-20 21:26:20 UTC
From: scott10k
Topic: 21402 Message: 21534

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce <gordon@...> wrote:
>
> On Thu, 2009-06-11 at 17:55 +0000, scott10k wrote:
> > On my TS-520S, my main dial is out of calibration with the 25 KHz
> > marker and with WWV. How do I get it into calibration? Is that a VFO
> > adjustment? Any advice would be appreciated.
> > 73s, Scott, N6CIC
>
> The outer scale slips round on the knob. You need to line it up for
> pretty much every 25kHz "step", or at least I do on mine. Even at that,
> my calibrator doesn't seem particularly "true" so I may need to break
> out the frequency counter and Anthorn-disciplined reference...
>
> Gordon MM3YEQ

Thanks for the replies. Well I figured out how to get the main dial "in line" with zero on WWV and with every 25 KHz on the calibrator. Remove the outer knob and the 0-100 KHz metal dial. This exposes the dial bearing and its mount which can easily be removed by loosening two screws. Now the internal, white main dial is held in place by a single screw. Loosen this and the main dial can be slipped by hand into adjustment. Re-tighten this screw, and then reverse the procedure to set the dial bearing, the metal dial, and the main tuning knob into place. Now everything is "true".
73s, Scott, N6CIC
>

21535. Re: [TS-520_820_530_830] 2N4049

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-20 22:09:17 UTC
From: richard
Topic: 21524 Message: 21535

On Sat, 20 Jun 2009 22:06:51 +0100
Gordon JC Pearce <gordon@...> wrote:

> On Sat, 2009-06-20 at 14:45 -0400, w9oj@... wrote:
> > Folks on another list were curious if there are any
> > reasonably priced replacement transistors available to
> > replace (or be used to build a new unit) the 2N4049
> > transistors used in the DC power unit of a TS-520.
> >
> > Some suggested an NTE28 but Google searches show them
> > to be $110 which is hardly what I would call reasonable !
>
> It's a germanium PNP power tranny. It probably has quite a high
> collector current and a pathetically low hFE. Since the DC lead is
> fused at 20A it's probably safe to assume that it can deal with a bit
> more than 20A although the old saying about the transistor blowing to
> protect the fuse may apply here ;-)
>
> In the absence of the proper transistor and if it was my own rig, I'd
> be inclined to try a pair of 2N2955s on the basis that although it's a
> little under spec for the job it can't be far wrong. The biasing
> would need adjusted, probably.
>
> I haven't tried running the TS-520 off a more modern inverter, but I
> suspect the RF noise would be atrocious.
>
> Gordon 2M0YEQ
>
I dont know where you got your spec from Gordon but a 2n2955 will not
do the job
I did find this:-
http://www.mark5.co.uk/search.php
price at GBP11 roughly US$17, not sure what the min quantity is .

HTH

--
Best wishes

Richard Bown

###
Registered Linux User 36561
OS: Mandriva 2009.1 Spring Powerpack on an AMD Dual Athlon 64 +4400: 8
GB RAM DDR2 Ham Call: G8JVM , QRA IO82SP, Interests Microwave 1.3
GHz,2.3 GHz & 5.7GHz & 10 GHz

###

21536. Re: 2N4049

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-20 21:23:51 UTC
From: w5rkl
Topic: 21524 Message: 21536

Hello Mike,

The NTE-28 which is a replacement for the 2N4049, has a continuous collector current rating of "60 amps". Transistors that have that current rating will be expensive.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "" <w9oj@...> wrote:
>
> Folks on another list were curious if there are any
> reasonably priced replacement transistors available to
> replace (or be used to build a new unit) the 2N4049
> transistors used in the DC power unit of a TS-520.
>
> Some suggested an NTE28 but Google searches show them
> to be $110 which is hardly what I would call reasonable !
>
> 73 de Mike W9OJ
>

21537. Re: [TS-520_820_530_830] Re: 2N4049

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-21 02:36:26 UTC
From: Dave ve3wej
Topic: 21524 Message: 21537

Kinda makes you want to be sure that they are indeed bad!!!

----- Original Message -----
From: "w5rkl" <w5rkl@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, June 20, 2009 5:23 PM
Subject: [TS-520_820_530_830] Re: 2N4049

> Hello Mike,
>
> The NTE-28 which is a replacement for the 2N4049, has a continuous
> collector current rating of "60 amps". Transistors that have that
> current rating will be expensive.
>
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "" <w9oj@...> wrote:
>>
>> Folks on another list were curious if there are any
>> reasonably priced replacement transistors available to
>> replace (or be used to build a new unit) the 2N4049
>> transistors used in the DC power unit of a TS-520.
>>
>> Some suggested an NTE28 but Google searches show them
>> to be $110 which is hardly what I would call reasonable !
>>
>> 73 de Mike W9OJ
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> Yahoo! Groups Links
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21538. Re: 2N4049

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-21 07:58:27 UTC
From: tropicaltramp2000
Topic: 21524 Message: 21538

--- In TS-520_820_530_830@yahoogroups.com, richard <richard.bown@...> wrote:
>
> On Sat, 20 Jun 2009 22:06:51 +0100
> Gordon JC Pearce <gordon@...> wrote:
>
> > On Sat, 2009-06-20 at 14:45 -0400, w9oj@... wrote:
> > > Folks on another list were curious if there are any
> > > reasonably priced replacement transistors available to
> > > replace (or be used to build a new unit) the 2N4049
> > > transistors used in the DC power unit of a TS-520.

Greetings All,
Some time ago (2 - 3 Years) I had the same problem and after looking at all the specs I found 4 Motorola transistors that I thought would do the job. Transistor is Motorola 2N2834.

I used 2 to repair the unit in my 520s and still have the other two. There was a small reduction in output power down from 115 or so to about 85 watts..but the radio is still going and is used on 12 volts quite often...just to see if it does still work mainly. It was good insurance for if the power went out.

Regards
Kevin
VK4AKV

21539. Re: [TS-520_820_530_830] 2N4049

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-21 08:04:20 UTC
From: Gordon JC Pearce
Topic: 21524 Message: 21539

On Sat, 2009-06-20 at 23:09 +0100, richard wrote:
> On Sat, 20 Jun 2009 22:06:51 +0100
> Gordon JC Pearce <gordon@...> wrote:
>
> > On Sat, 2009-06-20 at 14:45 -0400, w9oj@... wrote:
> > > Folks on another list were curious if there are any
> > > reasonably priced replacement transistors available to
> > > replace (or be used to build a new unit) the 2N4049
> > > transistors used in the DC power unit of a TS-520.
> > >
> > > Some suggested an NTE28 but Google searches show them
> > > to be $110 which is hardly what I would call reasonable !
> >
> > It's a germanium PNP power tranny. It probably has quite a high
> > collector current and a pathetically low hFE. Since the DC lead is
> > fused at 20A it's probably safe to assume that it can deal with a bit
> > more than 20A although the old saying about the transistor blowing to
> > protect the fuse may apply here ;-)
> >
> > In the absence of the proper transistor and if it was my own rig, I'd
> > be inclined to try a pair of 2N2955s on the basis that although it's a
> > little under spec for the job it can't be far wrong. The biasing
> > would need adjusted, probably.
> >
> > I haven't tried running the TS-520 off a more modern inverter, but I
> > suspect the RF noise would be atrocious.
> >
> > Gordon 2M0YEQ
> >
> I dont know where you got your spec from Gordon but a 2n2955 will not
> do the job
> I did find this:-
> http://www.mark5.co.uk/search.php
> price at GBP11 roughly US$17, not sure what the min quantity is .

That's not a bad price. I'm slightly surprised that it gives the spec
as 60V, 60A - that seems a *lot* for a germanium transistor. Of course,
it might not be germanium - I'm basing that on the only site that had
any details at all which was short on real info and long on "YOU BUY NOW
BEST PRICE"-type stuff. I'd be deeply surprised if it actually *needed*
a 60A transistor.

I don't even know if the inverter on my TS-520 is working. I don't have
the right power cable for it. If anyone's got a source for a couple of
the power connectors I'd be interested.

Gordon 2M0YEQ

21540. Re: [TS-520_820_530_830] Re: 2N4049

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-21 08:19:32 UTC
From: Gordon JC Pearce
Topic: 21524 Message: 21540

On Sat, 2009-06-20 at 21:23 +0000, w5rkl wrote:
> Hello Mike,
>
> The NTE-28 which is a replacement for the 2N4049, has a continuous
> collector current rating of "60 amps". Transistors that have that
> current rating will be expensive.
>
> Mike W5RKL

The power lead is fused at 20A though, so there's no way they can be running at a continuous 60A.

The manual gives the maximum power consumption as 280W. On 13.8V DC that would be a touch over 20A, so presumably it runs a little less power on DC. The power consumption in receive is given as 45W so that's 4A in receive, with a touch under 2A drawn by the valve heaters. There's just no way that the inverter transistors can be running more than a quarter of their rated current. Now, this makes sense for older parts where they maybe weren't the most reliable to begin with, but 30-odd years of developments in semiconductor technology has happened since then. You can drive modern power transistors much harder and expect them to survive.

Of course, you may be striving for originality in which case you'll want the real genuine 2N4049. They'll need replaced in pairs.

Gordon 2M0YEQ

21541. Re: [TS-520_820_530_830] Re: 2N4049

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-21 09:01:37 UTC
From: richard
Topic: 21524 Message: 21541

On Sun, 21 Jun 2009 09:19:32 +0100
Gordon JC Pearce <gordon@...> wrote:

> On Sat, 2009-06-20 at 21:23 +0000, w5rkl wrote:
> > Hello Mike,
> >
> > The NTE-28 which is a replacement for the 2N4049, has a continuous
> > collector current rating of "60 amps". Transistors that have that
> > current rating will be expensive.
> >
> > Mike W5RKL
>
> The power lead is fused at 20A though, so there's no way they can be
> running at a continuous 60A.
>
> The manual gives the maximum power consumption as 280W. On 13.8V DC
> that would be a touch over 20A, so presumably it runs a little less
> power on DC. The power consumption in receive is given as 45W so
> that's 4A in receive, with a touch under 2A drawn by the valve
> heaters. There's just no way that the inverter transistors can be
> running more than a quarter of their rated current. Now, this makes
> sense for older parts where they maybe weren't the most reliable to
> begin with, but 30-odd years of developments in semiconductor
> technology has happened since then. You can drive modern power
> transistors much harder and expect them to survive.
>
> Of course, you may be striving for originality in which case you'll
> want the real genuine 2N4049. They'll need replaced in pairs.
>
> Gordon 2M0YEQ
>

OH dear, little understanding of driving inductive loads and fuse
ratings.
Suffice to say when driving an inductive load the peak current is
substantially higher than the average. furthermore there is no such
thing as a 100% efficient inverter.
Modern designs can get close, but in the days when that inverter was
designed efficiencies where much much lower. typically 60 % if you
were lucky.

Fuses
just because it said 20A does not mean it will blow at 20A.
That is the maximum current it can handle. Steady state rupture will
occur at a much higher level.

I regularly pull 1500 A through a 100A mains fuse at work, and before you argue the UK mains fuses are not slow blow.

Finally , if the designers could have used a lower power dissipation and current rating they would have. Using overated devices was never in Japanese culture, they were used to get as many completed rigs down the production line as possible, and to keep the mtbf as high as possible. MTBF is related to first time failure rates in the factory during production, and any item that enters the repair loop in production is profit lost.

The other thing to bear in mind is where the +12V was expected to be used.
Not in the shack where is nicely regulated, but in a car.
regulators in alternators are not good at maintaining a constant voltage.
Rev up the engine with the battery disconnected, the older the vehicle the worse it gets. It will peak above 16 Volts in many cases.
And with the engine running its very spiky.

The only thing that has improved the stabilisation is the use of engine management computers, not that they regulate, but they are not able to withstand the 12 volts car supplies of the same vintage as the TS520/530 ect.

--
Best wishes

Richard Bown

##
Registered Linux User 36561
OS: Mandriva 2009.1 Spring Powerpack on an AMD Dual Athlon 64 +4400: 8 GB RAM DDR2 Ham Call: G8JVM , QRA IO82SP, Interests Microwave 1.3 GHz,2.3 GHz & 5.7GHz & 10 GHz
##

21542. K4EAA

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-21 11:02:19 UTC
From: ka8rzl
Topic: 20248 Message: 21542

Is Ken still working on the Kenwoods ? I have sent several emails with no response.

73
Phil WU8P

21543. Re: [TS-520_820_530_830] Re: 2N4049

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-21 11:36:25 UTC
From: Gordon JC Pearce
Topic: 21524 Message: 21543

On Sun, 2009-06-21 at 10:01 +0100, richard wrote:

(patronising comment snipped)

> Suffice to say when driving an inductive load the peak current is
> substantially higher than the average. furthermore there is no such
> thing as a 100% efficient inverter.
> Modern designs can get close, but in the days when that inverter was
> designed efficiencies where much much lower. typically 60 % if you
> were lucky.

Okay, so for a maximum *input* power at the supply terminals of 280W (as given in the manual) and taking off the 45W power drawn in receive with the heaters on, that leaves a maximum of 235W input to the power supply on transmit at full chat.

Now, the manual says 160W on 3.5MHz to 21MHz input to the PA, and 140W on 28MHz. Taking 60% efficiency (let's assume the inverter is really good, as you say) then that would mean our 235W input gives about 140W output - so more or less bang on.

> Fuses
> just because it said 20A does not mean it will blow at 20A.
> That is the maximum current it can handle. Steady state rupture will
> occur at a much higher level.

If you say so. That's not what my (admittedly 20-odd-year-old) university textbooks say. They say you shouldn't expect to run a fuse close to its rated capacity for long periods of time, but derate by 25% or more in a harsh environment.

> The other thing to bear in mind is where the +12V was expected to be
> used.
> Not in the shack where is nicely regulated, but in a car.
> regulators in alternators are not good at maintaining a constant
> voltage.
> Rev up the engine with the battery disconnected, the older the vehicle
> the worse it gets. It will peak above 16 Volts in many cases.
> And with the engine running its very spiky.

With the battery disconnected most alternators will crank out close to 20V until the regulator fails. Not a great idea.

> The only thing that has improved the stabilisation is the use of engine
> management computers, not that they regulate, but they are not able to
> withstand the 12 volts car supplies of the same vintage as the
> TS520/530 ect.

Oddly enough I noticed that my fiancee's '02 plate VW Polo seems to have rather *worse* regulation than my '88 Citroën CX. The CX holds a pretty steady 14.2V from about 1200rpm to the redline at 4750RPM, but the Polo can be anywhere from 11V to 15V at any speed.

We're now woefully off-topic, and I have a feeling that this is something where since you think I'm wrong and I think you're partly right but for the wrong reasons it will descend into a big argument and annoy the rest of the list. If you want to continue it I suggest we take it off-list...

Gordon

21544. Re: [TS-520_820_530_830] Re: 2N4049

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-21 13:02:20 UTC
From: richard
Topic: 21524 Message: 21544

On Sun, 21 Jun 2009 12:36:25 +0100
Gordon JC Pearce <gordon@...> wrote:
Whole lot snipped

Obviously Gordon does not understand what happens when DC is applied to
an inductor.
I hope others do and realise why not to down grade Transistor ratings.

--
Best wishes

Richard Bown

##
Registered Linux User 36561
OS: Mandriva 2009.1 Spring Powerpack on an AMD Dual Athlon 64 +4400: 8
GB RAM DDR2 Ham Call: G8JVM , QRA IO82SP, Interests Microwave 1.3
GHz,2.3 GHz & 5.7GHz & 10 GHz
##

21545. Re: [TS-520_820_530_830] Re: 2N4049

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-21 13:48:23 UTC
From: Gordon JC Pearce
Topic: 21524 Message: 21545

On Sun, 2009-06-21 at 14:02 +0100, richard wrote:
> On Sun, 21 Jun 2009 12:36:25 +0100
> Gordon JC Pearce <gordon@...> wrote:
> Whole lot snipped
>
> Obviously Gordon does not understand what happens when DC is applied to
> an inductor.
> I hope others do and realise why not to down grade Transistor ratings.

<plunk>

Someone mail me off-list when Mr. B-licence learns basic electronics and
starts talking sense.

Gordon

21546. Re: 2N4049

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-21 13:08:56 UTC
From: Herb
Topic: 21524 Message: 21546

Mouser has them for $98.18
Not much better, but I will keep looking.
Herb
KC5MO

--- In TS-520_820_530_830@yahoogroups.com, richard <richard.bown@...> wrote:
>
> On Sat, 20 Jun 2009 22:06:51 +0100
> Gordon JC Pearce <gordon@...> wrote:
>
> > On Sat, 2009-06-20 at 14:45 -0400, w9oj@... wrote:
> > > Folks on another list were curious if there are any
> > > reasonably priced replacement transistors available to
> > > replace (or be used to build a new unit) the 2N4049
> > > transistors used in the DC power unit of a TS-520.
> > >
> > > Some suggested an NTE28 but Google searches show them
> > > to be $110 which is hardly what I would call reasonable !
> >
> > It's a germanium PNP power tranny. It probably has quite a high
> > collector current and a pathetically low hFE. Since the DC lead is
> > fused at 20A it's probably safe to assume that it can deal with a bit
> > more than 20A although the old saying about the transistor blowing to
> > protect the fuse may apply here ;-)
> >
> > In the absence of the proper transistor and if it was my own rig, I'd
> > be inclined to try a pair of 2N2955s on the basis that although it's a
> > little under spec for the job it can't be far wrong. The biasing
> > would need adjusted, probably.
> >
> > I haven't tried running the TS-520 off a more modern inverter, but I
> > suspect the RF noise would be atrocious.
> >
> > Gordon 2M0YEQ

21547. Re: K4EAA

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-21 14:33:10 UTC
From: Kory Smith
Topic: 20248 Message: 21547

Well guessing by reading his site he is indefinitely backlogged for now. My best guess is yes but from the sounds of what I read there could be a good year or so wait till he would be ready to even look at yours.

-Kory N3ZKI

--- In TS-520_820_530_830@yahoogroups.com, "ka8rzl" <wu8p@...> wrote:
>
> Is Ken still working on the Kenwoods ? I have sent several emails with no response.
>
> 73
> Phil WU8P
>

21548. Re: [TS-520_820_530_830] Re: 2N4049

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-21 13:07:49 UTC
From: Sulaiman Abdullah
Topic: 21524 Message: 21548

Just to add to the confusion- from my copy of the TS-520S Service Manual;

On 120/220V ac 50/60 Hz
Rx, Heaters off 26W
Rx, Heaters on 45W
Tx, (maximum) 280W

On 13.8Vdc
Rx, Heaters off 0.6A
Rx, Heaters on 5A
Tx, (maximum) 15A

DC supply 12V to 16V, 13.8V nominal.
And the dc fuse is 15A.

My TS-520S doesn't have the inverter so I can't check,
but from the circuit diagram it looks like a 'blocking oscillator'
so virtually square wave operation.
So each transistor carries up to 15A at 50% duty.

My photocopied manual has been modified to show the
transistor device type as T20A6 ... haven't checked.

A fuse should be able to carry its rated current for a very long time.
Under overload conditions it's I^2 . T that causes fuse rupture.

----- Original Message -----
From: richard
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, June 21, 2009 10:01 AM
Subject: Re: [TS-520_820_530_830] Re: 2N4049

On Sun, 21 Jun 2009 09:19:32 +0100
Gordon JC Pearce <gordon@...> wrote:

> On Sat, 2009-06-20 at 21:23 +0000, w5rkl wrote:
> > Hello Mike,
> >
> > The NTE-28 which is a replacement for the 2N4049, has a continuous
> > collector current rating of "60 amps". Transistors that have that
> > current rating will be expensive.
> >
> > Mike W5RKL
>
> The power lead is fused at 20A though, so there's no way they can be
> running at a continuous 60A.
>

> The manual gives the maximum power consumption as 280W. On 13.8V DC
> that would be a touch over 20A, so presumably it runs a little less
> power on DC. The power consumption in receive is given as 45W so
> that's 4A in receive, with a touch under 2A drawn by the valve
> heaters. There's just no way that the inverter transistors can be
> running more than a quarter of their rated current. Now, this makes
> sense for older parts where they maybe weren't the most reliable to
> begin with, but 30-odd years of developments in semiconductor
> technology has happened since then. You can drive modern power
> transistors much harder and expect them to survive.
>
> Of course, you may be striving for originality in which case you'll
> want the real genuine 2N4049. They'll need replaced in pairs.
>
> Gordon 2M0YEQ
>

OH dear, little understanding of driving inductive loads and fuse ratings.
Suffice to say when driving an inductive load the peak current is substantially higher than the average. furthermore there is no such thing as a 100% efficient inverter.
Modern designs can get close, but in the days when that inverter was designed efficiencies where much much lower. typically 60 % if you were lucky.

Fuses
just because it said 20A does not mean it will blow at 20A.
That is the maximum current it can handle. Steady state rupture will occur at a much higher level.

I regularly pull 1500 A through a 100A mains fuse at work, and before you argue the UK mains fuses are not slow blow.

Finally , if the designers could have used a lower power dissipation and current rating they would have. Using overated devices was never in Japanese culture, they were used to get as many completed rigs down the production line as possible, and to keep the mtbf as high as possible.
MTBF is related to first time failure rates in the factory during production, and any item that enters the repair loop in production is profit lost.

The other thing to bear in mind is where the +12V was expected to be used.
Not in the shack where is nicely regulated, but in a car.
regulators in alternators are not good at maintaining a constant voltage.
Rev up the engine with the battery disconnected, the older the vehicle the worse it gets. It will peak above 16 Volts in many cases.
And with the engine running its very spiky.

The only thing that has improved the stabilisation is the use of engine management computers, not that they regulate, but they are not able to withstand the 12 volts car supplies of the same vintage as the TS520/530 ect.

--
Best wishes

Richard Bown

##
Registered Linux User 36561
OS: Mandriva 2009.1 Spring Powerpack on an AMD Dual Athlon 64 +4400: 8 GB RAM DDR2 Ham Call: G8JVM , QRA IO82SP, Interests Microwave 1.3 GHz,2.3 GHz & 5.7GHz & 10 GHz
##

[Non-text portions of this message have been removed]

21549. R: [TS-520_820_530_830] Re: TS-830S without 12BY7; could be a problem?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-21 15:57:00 UTC
From: Mattia
Topic: 21549 Message: 21549

Ok, today I was at home and I have reconnected all wiring and now I have about 5/8W on RF-Out (CW)..
Now what's the possible problem? R15 and R16 in the rectifier unit are good.

Da: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] Per conto di Dave ve3wej
Inviato: martedì, 9. giugno 2009 21:42
A: TS-520_820_530_830@yahoogroups.com
Oggetto: Re: [TS-520_820_530_830] Re: TS-830S without 12BY7; could be a problem?

perhaps the carrier level or mike level is too low

----- Original Message -----
From: "anet78a" <Net78@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, June 09, 2009 3:16 PM
Subject: [TS-520_820_530_830] Re: TS-830S without 12BY7; could be a problem?

> Also the red wire AC800 on Rectifier Unit was disconnected.
>
> Now, on USB Mode I go on TX, Meter Switch on Ip; I read about 60 mA
> (corrected with Bias rear control). With Meter Switch on HV it's possibile
> to read about 900V.
> On my second receiver I listen a tone, also without microphone connected
> to the TS830.
>
> On Tune MODE, with Meter Switch on ALC or RF I don't read anything.
>
> uffffff
>
> Any Idea? Another wire disconnected?
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>>
>> I recommend testing the final tubes before applying power. I say this
>> since you are not the original owner and you have no idea what
>> condition the final tubes are in. Naturally, replace the driver tube
>> with a known good 12BY7.
>>
>> Inexpensive tube testers cannot test a tube in an RF environment.
>> Most inexpensive tube testers can only test for shorted/open
>> filaments, shorted elements (grid shorted to cathode, screen shorted
>> to grid, etc), and simple conduction, nothing more. If you find one
>> or both final tubes to be weak (conduction) or shorted, replace both
>> of them. You do NOT have to purchase expensive "matched pairs"!

>> That's a waste of money and you will not realize any improved
>> performance with matched tubes over unmatched tubes!
>>
>> When testing tubes, let the tube warm up for 5 to 10 minutes in the
>> tester before testing. If any element will short due to heating the
>> inside of the glass envelope, the 5 to 10 minute warm up period will
>> aid in discovering heat related shorts in tubes. I have experienced
>> 6146 tubes that test "good", no shorts, when allowed to warm up for
>> only 2 or 3 minutes. However, allowing the tube to continue to warm
>> up for an additional period of time, the tester indicated the tube
>> was shorted.
>>
>> I also recommend checking the final tube's cathode resistors, R2 thru
>> R5, on the final amplifier PC board. You have turn the 830 upside
>> down to locate the cathode resistors. Each one is 20 ohm at 1/2 watt.
>> If one or more of these resistor indicate they are damaged or have
>> changed resistance outside of the 10% tolerance, change all 4 of them
>> with new 20 ohm 1/2 watt resistors.
>>
>> If you end up replacing the finals, I strongly recommend neutralizing
>> the final amplifiers. The final amplifier neutralizing procedure is
>> covered in both, operating and service manuals for the 830. If you do
>> not have either manual, you can download them from N6WK's website.
>>
>> http://www.n6wk.com/kenwood/
>>
>> I recommend you obtain these manuals, if you do not already have
>> them, when servicing AND operating the 830.
>>
>> Mike W5RKL
>>
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

21550. Re: [TS-520_820_530_830] Re: 2N4049

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-21 17:08:18 UTC
From: richard
Topic: 21524 Message: 21550

On Sun, 21 Jun 2009 14:48:23 +0100
Gordon JC Pearce <gordon@...> wrote:

> On Sun, 2009-06-21 at 14:02 +0100, richard wrote:
> > On Sun, 21 Jun 2009 12:36:25 +0100
> > Gordon JC Pearce <gordon@...> wrote:
> > Whole lot snipped
> >
> > Obviously Gordon does not understand what happens when DC is
> > applied to an inductor.
> > I hope others do and realise why not to down grade Transistor
> > ratings.
>
> <plunk>
>
> Someone mail me off-list when Mr. B-licence learns basic electronics
> and starts talking sense.
>
> Gordon
>
I've tried to keep this professional, with difficulty, When someone
asks a question if I can give an objective answer I do. When someone
gives information which will cause failure or damage to equipment I
will answer and state why.

However some people want to make a personal fight out of it.
I have been licensed since 1974 , I took the old written exam which all
amateurs at that time took, at that time there were only two classes of
licence in the UK, A & B , the only difference was a 12 wpm morse
test.Technically there was no difference between classes. I never
bothered to take the morse test as my interests were with the technical
side of the hobby and vhf to microwave. HF has never really interested
me. I bought my TS530S to see if the interest would manifest itself,
but it hasn't, it only gets switched on when I'm bored, about one log
entry a month. The licence structure has changed in the UK, the first
change was in 1975 when the written exam was replaced with a question
and answer type. So anyone with no knowledge what so ever of radio or
electronics had a 25% chance of passing. Anyone with a small amount of
knowledge that could spot the two ridiculous answers out of the four
could pass easily.
In the late 1990's a lower level exam was introduced which allowed a
lower entry to the hobby with lower power and fewer bands.
Later in the early 2000's an even lower level licence was introduced
which allowed novices with a fundamental understanding of radio to get
on air, a few hours tuition at the local radio club and a very simple

morse test.
In the UK the novice licencee can be recognised by the callsign
sequence *M3xxx.
In the last few years the morse requirement, which the previously
lowered morse requirement from 12wpm to 5, wpm was removed altogether,
so the top level licencees , either A or B.
Note you can get a Notice of variation to run 1Kw for "experimental "
use
Now the same CEPT licence covers from 136KHz to 220GHz with 400W at
the feed point.
I also work in the EMC industry designing test equipment from DC to
several GHz, I'm well qualified and I hope I have acquired a reasonable
amount of knowledge in the last 40 years since building my first radio.
I will be leaving this list, but I would like to be listed as an ELMER
for anyone requiring help
my e-mail address
richard.bown@...

--
Best wishes

Richard Bown

###
Registered Linux User 36561
OS: Mandriva 2009.1 Spring Powerpack on an AMD Dual Athlon 64 +4400: 8
GB RAM DDR2 Ham Call: G8JVM , QRA IO82SP, Interests Microwave 1.3
GHz,2.3 GHz & 5.7GHz & 10 GHz
###

21551. Re: [TS-520_820_530_830] Re: 2N4049

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-21 17:24:24 UTC
From: WA6RKN
Topic: 21524 Message: 21551

Don't.

You are no good to anyone (as an ELMER), if you aren't here to answer questions, or share your wealth of knowledge from 40 years of 'playing radio'.....

Joe Wolfe
WA6RKN
Reno, Nevada, U.S.A.

----- Original Message -----
From: "richard" <richard.bown@...>
Subject: Re: [TS-520_820_530_830] Re: 2N4049

> I will be leaving this list, but I would like to be listed as an ELMER
> for anyone requiring help
> my e-mail address
> richard.bown@...

21552. Re: Microphone for TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-21 18:17:12 UTC
From: sulabd2003
Topic: 21376 Message: 21552

Hello,
The thing to do with microphones is TRY THEM.

When I got my TS-520S it came without a microphone
I too was looking around for a 'correct' microphone.
I tried a cheap normal moving-coil desk microphone that I had
and I've been making ssb contacts ever since!

There MAY be audio frequency response anomalies
but none of my contacts has ever commented so I assume OK.
If the RF meter moves when you speak then you are transmitting!

21553. Re: [TS-520_820_530_830] Re: Microphone for TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-21 18:55:29 UTC
From: Gordon JC Pearce
Topic: 21376 Message: 21553

On Sun, 2009-06-21 at 18:17 +0000, sulabd2003 wrote:
> Hello,
> The thing to do with microphones is TRY THEM.
>
> When I got my TS-520S it came without a microphone
> I too was looking around for a 'correct' microphone.
> I tried a cheap normal moving-coil desk microphone that I had
> and I've been making ssb contacts ever since!
>
> There MAY be audio frequency response anomalies
> but none of my contacts has ever commented so I assume OK.
> If the RF meter moves when you speak then you are transmitting!

Having *actually tried it* rather than endlessly speculating, I can
safely say that a 600 ohm mike works with the TS520 but is a bit quiet.
There's enough gain in the mike preamp to get you just about there, but
either a high-impedance mike or one with a preamp would be better.

In short, it's not great but it's better than nothing. If all else
fails you can do frustratingly slow CW with the PTT.

Gordon 2M0YEQ

21554. Re: [TS-520_820_530_830] Re: 2N4049

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-21 19:24:04 UTC
From: Gordon JC Pearce
Topic: 21524 Message: 21554

On Sun, 2009-06-21 at 14:07 +0100, Sulaiman Abdullah wrote:

> My TS-520S doesn't have the inverter so I can't check,
> but from the circuit diagram it looks like a 'blocking oscillator'
> so virtually square wave operation.
> So each transistor carries up to 15A at 50% duty.

My 520 *does* have the inverter but I don't have the right power lead. So, just to see what would happen I built an inverter with a spare 200W transformer and some of the MJE2955s I had kicking about. Since it has a 9-0-9-0 winding wired as 9-0-9 I used that for the primary. There is no suitable winding for the base drive, so I used capacitors from the opposite collector in a pretty traditional multivibrator circuit. The whole thing oscillates with a slightly spiky squarewave at a touch over 60Hz and has been feeding a 100W bulb with about 220V for most of the afternoon, drawing about 12A. The MJE2955s are now quite hot but nothing untoward - certainly no hotter than my 200W audio amps get after running full bore for an afternoon.

I think Richard's probably right that the MJE2955 wouldn't last terribly long driving the transformer in the TS520. I don't think there's a lot in it, though, I'm sure it wouldn't be hard to find one just a bit more suitable without forking out 100 quid apiece for 30-year-old unobtainium.

Gordon 2M0YEQ

21555. K4EAA and the waiting list

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-21 18:53:18 UTC
From: W0XS
Topic: 20248 Message: 21555

To give you an idea of how long my wait to have Ken look at my TS-830 has been, I contacted him on March 13, 2009 and asked to reserve a time to have him work on it. He told me to ship "anytime during the second weeks of May" so I shipped at the beginning of that week. The first delivery attempt was missed as no one was home to sign for it but it was delivered that Friday (5 days after shipping). I had written to him with the tracking number and delivery date right after I took it to FedEx.

I expected to hear from Ken after a few days but didn't, so on May 29th I wrote to Ken asking when he would be working on it and he replied the same day and said:

Your radio is presently #40 in the queue. But as always happens, not everyone who reserves a spot in the queue will ship in a timely fashion. That, and the sheer number of service requests is what makes it difficult to schedule accurately. Rigs on hand, scheduled before you, place your real number at about #20 - As previously released rigs continue to arrive, that could slip a bit.

I've still heard noting so it hasn't made it to his bench yet. It takes a week to ship back and a friend from the UK, who I've been trying to get interested in ham radio, is visiting on July 4th for a week so I can only hope my TS-830S will be back by then but it's not looking very hopeful that will happen.

It would have been helpful if some estimate of probable "time in the queue before alignment/repair" had been given on Ken's web site or when I was given a date to ship the transceiver to him. I naively believed I might have it back in three to four weeks.

Ken's repairs have received only the highest marks on eham.com so the wait will be worth it, I'm sure. I only wish I'd have it back to demonstrate to my UK friend. I only bought it in early March and discovered it had a couple of issues so I couldn't have requested a ship date from him any earlier.

----- Original Message -----
From: Kory Smith
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, June 21, 2009 9:33 AM
Subject: [TS-520_820_530_830] Re: K4EAA

Well guessing by reading his site he is indefinitely backlogged for now. My best guess is yes but from the sounds of what I read there could be a good year or so wait till he would be ready to even look at yours.

-Kory N3ZKI

--- In TS-520_820_530_830@yahoogroups.com, "ka8rzl" <wu8p@...> wrote:
>
> Is Ken still working on the Kenwoods ? I have sent several emails with no response.
>
> 73

> Phil WU8P
>

[Non-text portions of this message have been removed]

21556. Re: [TS-520_820_530_830] Re: Microphone for TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-21 20:41:30 UTC
From: K5vse-Mike
Topic: 21376 Message: 21556

My sentiments exactly! I have a friend in Texas that runs the complete Collins S line, including the floor amplifier. Sorry, I can't remember the model of the amp. But, he uses a $9.00 Radio Shack mic and gets great audio reports. So when in doubt, as was said earlier, TRY IT. In most cases it will work.

73,
Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
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[Non-text portions of this message have been removed]

21557. shure mic model 522 wired for kenwood 820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-21 21:22:12 UTC
From: chuck_meilicke
Topic: 21557 Message: 21557

Hi there not shure why i cant follow a simple schematic. having trouble wiring a shure 522 to a kenwood 820s. got the ptt ok but cant seem to get the audio right..can someone help with advice to this big dummy..thanks chuck kb9mvw

21558. RE: [TS-520_820_530_830] K4EAA and the waiting list

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-21 21:52:08 UTC
From: greg fox
Topic: 20248 Message: 21558

Ive ordered parts from Ken working on my 520S and always found him reliable. Sorry your rig is taking more time to fix than you wanted. Sometimes communications get confused and the parties involved have different expectations.

My partner Grant and I repair antique tube radios from the 20's - 30's, wurlitzer and Seeburg Jukebox Amplifiers and high end stereo gear from the 70's. So we are in a similar business even though we do not work on transmitters.

When someone asks me how long will it take to fix their Cathedral radio, the only honest answer I can give them is : "About the same time it takes to catch a fish"

There are several legitimate reasons for slow service.

1. we have day jobs and lives - And I compete as an athlete. so my free time is pretty much booked.

So it not like Im sitting by the mailbox waiting for something to do. We have shelves of stuff waiting to be fixed and have to do it when we have the time.

2. Waiting for parts - we keep an inventory of common parts but its expensive to drop 70 bucks worth of capacitors into a amplifier so on hand stock isnt overly large and sometimes we have to wait for the right value to come in, especially for tubes.

3. Recapping - pretty time consuming , if you try to do a decent job. it takes time, even if you just cut leads and solder to the leads, and that looks like hell too. So to do it right you desolder and install a new part the way the company did it, much more reliable. You have to make a mechanical connection before you solder, not just tack it on and hope it holds.

3. Figuring out whats wrong - Especially hard if someones already been boogering in the unit and messed with it.

but even if its original, it takes time to go thru a circuit and check all the parts and troubleshoot it. I have a Hallicrafters SX-42 with a loose wire just floating around and will have to find where it came from before I can start work, quite a headscratcher even with schematics.

Someone had been in it and who knows what they did. The putz.

4. A lot of these units have been sitting out in the barn and are full of Dirt, mice turds and cat piss. A large amout of time is spent cleaning rusted chassis and lubrication. When I have to do veneer work, stain and Laccquer a cabinet, it takes an extra week spraying and rubbing all the coats. Lots of time is spent cleaning a unit, lubrication, mechanical repairs.

I'd go on but I start sounding like Im making whining excuses. So I wont.

The thing is, when we have a resource like Ken, who really knows his stuff, you have to give him some slack. Its not like you have

something the geek squad at best buy can handle. If Ken dosent respond to a request, send him another email, preferrably from a different email account coz a lot of the trouble is spam filtering and blocking at the email host.

Repair queues are a pain in the butt. They are difficult to manage. And the rate radios come in is generally way faster than they go out. Hopefully it will get done, but dont make plans based on any time deadlines. that way lies madness

greg

To: TS-520_820_530_830@yahoogroups.com
From: w0xs@...
Date: Sun, 21 Jun 2009 13:53:18 -0500
Subject: [TS-520_820_530_830] K4EAA and the waiting list

To give you an idea of how long my wait to have Ken look at my TS-830 has been, I contacted him on March 13, 2009 and asked to reserve a time to have him work on it. He told me to ship "anytime during the second weeks of May" so I shipped at the beginning of that week. The first delivery attempt was missed as no one was home to sign for it but it was delivered that Friday (5 days after shipping). I had written to him with the tracking number and delivery date right after I took it to FedEx.

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----- Original Message -----
From: Kory Smith
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, June 21, 2009 9:33 AM
Subject: [TS-520_820_530_830] Re: K4EAA

Well guessing by reading his site he is indefinitely backlogged for now. My best guess is yes but from the sounds of what I read there could be a good year or so wait till he would be ready to even look at yours.

-Kory N3ZKI

--- In TS-520_820_530_830@yahoogroups.com, "ka8rzl" <wu8p@...> wrote:
>
> Is Ken still working on the Kenwoods ? I have sent several emails with no response.
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> Phil WU8P
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[Non-text portions of this message have been removed]

_____
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[Non-text portions of this message have been removed]

21559. Re: [TS-520_820_530_830] shure mic model 522 wired for kenwood 820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-21 22:23:40 UTC
From: Gordon JC Pearce
Topic: 21557 Message: 21559

On Sun, 2009-06-21 at 21:22 +0000, chuck_meilicke wrote:
> Hi there not shure why i cant follow a simple schematic. having
> trouble wiring a shure 522 to a kenwood 820s. got the ptt ok but cant
> seem to get the audio right..can someone help with advice to this big
> dummy..thanks chuck kb9mvw

I don't have one of these mikes, but going by the PDF of the manual you want white connected to pin 1 and green and braid connected to pin four. PTT (red and black) goes to pin 2 and 3.

Now, which pin is which? Well, looking at the front of the radio, you'll see it's got four pins and a wee bump in the outer ring between the bottom two pins. The right-hand bottom pin, just right of the bump, is pin 1.

So to recap, your mike wants to be wired with white to the bottom right, braid and green to bottom left, and red and black to the top two either way round. The top right pin is grounded to transmit.

Oh, you'll want (as per endless previous discussion) the impedance set to high.

Hope this helps,

Gordon 2M0YEQ

21560. Re: [TS-520_820_530_830] shure mic model 522 wired for kenwood 820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-21 22:35:01 UTC
From: Charlie , W5COV
Topic: 21557 Message: 21560

http://www.qsl.net/g4wpw/522.jpg

Shure 522 Diagram

Charlie , W5COV

[Non-text portions of this message have been removed]

21561. Fwd: [TS-520_820_530_830] Re: Microphone for TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-22 02:18:02 UTC
From: kc2aup@arrl.net
Topic: 21561 Message: 21561

I agree. However I use a D104 amplified mic with the 10DA head on it.
Works great. Fantastic audio reports on it. Got it at a Hamfest cheap... I
have the 820S...

From: k5vse@...
Reply-to: TS-520_820_530_830@yahoogroups.com
To: TS-520_820_530_830@yahoogroups.com
Sent: 6/21/2009 4:42:36 P.M. Eastern Daylight Time
Subj: Re: [TS-520_820_530_830] Re: Microphone for TS-820S

My sentiments exactly! I have a friend in Texas that runs the complete
Collins S line, including the floor amplifier. Sorry, I can't remember the
model of the amp. But, he uses a $9.00 Radio Shack mic and gets great
audio
reports. So when in doubt, as was said earlier, TRY IT. In most cases it
will work.

73,
Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
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[Non-text portions of this message have been removed]

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JunestepsfooterNO62)

[Non-text portions of this message have been removed]

21562. What is ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-22 03:59:53 UTC
From: AllanKB5DOH
Topic: 21562 Message: 21562

Hi, To all the dads out there sincerely hope you had a fantastic fathers day. Now for the questions,

between the TS-930 & TS-940 a friend said forget the TS-940 because it had some problems he said the 930 was better & is not the TS-930 the last of the hybrid or was the 830 the last if I was to get one where besides ebay can I find one.

Thanks & 73 & God Bless Allan=kb5doh

[Non-text portions of this message have been removed]

21563. Mili-Amps on the 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-22 08:00:27 UTC
From: Michael
Topic: 21563 Message: 21563

I recently noticed while tuning my 520S that the MA gage no longer loaded to 225 as it previously did instead it tunes to 200 MA. I have replaced all the new needed components on the finals and put the new capacitors in, but I did that right after I got the radio about 6 months ago. Is this a sign the tubes are going soft. I do know that all though the reading on the gage has dropped back that the power output is about the same and it shows no sign of dropping after keyed for about five seconds in cw.

Thanks in advance

ki0gv
Mike

21564. Re: [TS-520_820_530_830] Mili-Amps on the 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-22 08:16:44 UTC
From: Gordon JC Pearce
Topic: 21563 Message: 21564

On Mon, 2009-06-22 at 08:00 +0000, Michael wrote:
> I recently noticed while tuning my 520S that the MA gage no longer
> loaded to 225 as it previously did instead it tunes to 200 MA. I have
> replaced all the new needed components on the finals and put the new
> capacitors in, but I did that right after I got the radio about 6
> months ago. Is this a sign the tubes are going soft. I do know that
> all though the reading on the gage has dropped back that the power
> output is about the same and it shows no sign of dropping after keyed
> for about five seconds in cw.

I'd expect the valves to last longer than six months. Have you checked your aerial and feeder? If this is something that has suddenly happened there's more likely to be a "good reason" than the valves losing emission. If you can load it up to 225mA into a dummy load, then the problem is outside your TS-520. The other day I couldn't get more than 150mA showing on the meter, and went out to find the loading coil of my 40m vertical under water. Once I'd cleared the drain at the bottom of the garden it was back to a good healthy 200mA, and as a bonus the earth spike was much more effective in the sodden ground. It's an ill wind...

Have you checked the idle current is still set to 60mA? An anode current of 200mA is still within "book figures" so if it's working well apart from that I wouldn't lose any sleep.

Gordon 2M0YEQ

21565. k4eaa

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-22 10:19:51 UTC
From: lajes67
Topic: 21565 Message: 21565

Saw the posts about K4EAA, I had my 530S repaired by him, I can only add the finest praise for Ken.
With that said, I now have to really part with my 530S and the matching VFO, I tried it once before but a lot of things got in the way.
Please contact me off the group, I have pictures.
73 John K2IZ

21566. Re: What is ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-22 11:10:53 UTC
From: w5rkl
Topic: 21562 Message: 21566

Hello Allen,

I have no experience with the 940 so I cannot comment on it.

The last hybrid was the TS-830.

I use to own a TS-930. Great radio except for one major problem,
the Microprocessor Board. It failed quite often and when it did
the 930 was nothing more than a heavy metal paper weight.
The fix was to replaced the original microprocessor board with the
PIEXX Enhanced Microprocessor Board at a cost of $250. The board was
a direct drop in replacement for the original board. Took about an
hour to install it. Once installed the 930 was a really nice radio.
The new board added additional memory, dual speed tuning, serial
port rig control, and a few other features I can't remember.

The 930 also suffered from internal power supply failure. The power
supply in my 930 never failed. The only other problem my 930 had
was one of the cooling fans, the 930 has 2 on the rear panel. The
bearing dried up which caused the fan to spin at 1/2 speed and
make a lot of noise. I lubricated the fan and was able to save it.
The 930 is a great looking radio and the internal antenna
tuner was fast and quiet! I used mine primarily on CW and PSK/RTTY.
The only regret I have with the 930 is, I wish I had never sold
mine!

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "AllanKB5DOH" <a1mc@...> wrote:
>
>
> Hi, To all the dads out there sincerely hope you had a fantastic fathers
> day. Now for the questions,
>
> between the TS-930 & TS-940 a friend said forget the TS-940 because it
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> Thanks & 73 & God Bless Allan=kb5doh
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>
>
> [Non-text portions of this message have been removed]
>

21567. Re: Mili-Amps on the 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-22 11:51:18 UTC
From: w5rkl
Topic: 21563 Message: 21567

Hello Mike,

The 200ma you are seeing, at resonance, in CW mode is correct.
In TUNE mode, however, the IP current will be much less than in
CW mode as the final tube screen voltage is lowered in TUNE mode.

An indication of driver and/or final tubes getting weak/soft is
output drops off rapidly after tuning. Since your 520's output
appears to remain fairly constant, I seriously doubt the driver
and/or final tubes are soft.

In sideband, USB or LSB, the IP current will vary depending on the
MIC gain setting. The MIC gain controls the RF output in USB or LSB.

In TUNE and CW mode, the CAR control controls the RF output.

Sideband RF output, USB or LSB, will normally be between 20 and 30
watts on an average watt meter. This is normal and should NOT be
considered a problem with the radio. Average watt meters cannot and
will not display the 520's PEP RF output. You must use a peak reading
watt meter in order to display the 520's approximate PEP RF output.
The 520's RF meter setting indicates "relative" RF output ONLY.

Never turn the MIC gain up in order to display the PEP output
on an average watt meter. Doing so creates a lot of distortion
in the speech amplifier's output which results in your transmit
signal splattering up and down the band. Again, the only way the
approximate 520's PEP output can be displayed is by using peak
reading watt meter.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Michael" <ki0gv@...> wrote:
>
> I recently noticed while tuning my 520S that the MA gage no longer loaded to 225 as it previously did instead it tunes to 200 MA. I have replaced all the new needed components on the finals and put the new capacitors in, but I did that right after I got the radio about 6 months ago. Is this a sign the tubes are going soft. I do know that all though the reading on the gage has dropped back that the power output is about the same and it shows no sign of dropping after keyed for about five seconds in cw.
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> Thanks in advance
>
> ki0gv
> Mike
>

21568. Re: [TS-520_820_530_830] K4EAA and the waiting list

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-22 14:48:40 UTC
From: David King
Topic: 20248 Message: 21568

Having had my TS-520S gone through and repaired by Ken about three years ago, I think there's an obvious reason yours was number 40 in the queue. He's that good, and people know it.

Unfortunately for us as customers, we had several conversations leading up to, during and after he worked on mine...and he indicated he was trying to also enjoy retirement and was doing this as much out of love for these rigs and enjoyment of working on them as for the compensation....(not that he wasn't wanting paid for his work...)

So, if someone wants repairs done in a grind-em-out large shop with in/out guaranteed dates and an invoice scale to match their overhead...he's probably not your best choice.

But, I can tell you, the work he did for me as he went through it completely and made sure everything was up to snuff after the repair was made...and the assurance I had afterwards that my rig was in as good of shape as it was the day it went out of the factory was worth the wait.

I had the choice of waiting my turn in line or fixing it myself....and I don't regret having Ken go through it and establish a baseline for me that everything was working as of dd/mm/yy date!

David
WY7DK

W0XS wrote:
>
>
> To give you an idea of how long my wait to have Ken look at my TS-830
> has been, I contacted him on March 13, 2009 and asked to reserve a
> time to have him work on it. He told me to ship "anytime during the
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> week so I can only hope my TS-830S will be back by then but it's not
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> It would have been helpful if some estimate of probable "time in the
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> when I was given a date to ship the transceiver to him. I naively
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> Ken's repairs have received only the highest marks on eham.com so the
> wait will be worth it, I'm sure. I only wish I'd have it back to
> demonstrate to my UK friend. I only bought it in early March and
> discovered it had a couple of issues so I couldn't have requested a
> ship date from him any earlier.
>
> ----- Original Message -----
> From: Kory Smith
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Sunday, June 21, 2009 9:33 AM
> Subject: [TS-520_820_530_830] Re: K4EAA
>
> Well guessing by reading his site he is indefinitely backlogged for
> now. My best guess is yes but from the sounds of what I read there
> could be a good year or so wait till he would be ready to even look at
> yours.
>
> -Kory N3ZKI
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "ka8rzl" <wu8p@...> wrote:
> >
> > Is Ken still working on the Kenwoods ? I have sent several emails
> with no response.
> >
> > 73
> > Phil WU8P
> >
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

21569. (no subject)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-22 14:53:10 UTC
From: John Bachman
Topic: 21569 Message: 21569

I have replacement diodes and resistors in hand and the capacitor kits are enroute from Ken. All new parts will be installed soon and I will be back on the air.

73 to all who helped. You guys are great.

John, W1JGB

[Non-text portions of this message have been removed]

21570. Microphone wiring

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-22 16:56:26 UTC
From: ivokenwood
Topic: 11443 Message: 21570

Hello all...

For my TS520S I have bought an older CB microphone DM-2C (Albrecht). Its wiring is:
1. Audio/AF
2. GND
3. PTT RX
4. PTT TX
How should I re-organise it's wiring to suit the Kenwood's microphone socket?
And impedance 500 Ohm will work?

Thanks all for help.

Ivo, OK2SHI

21571. Re: [TS-520_820_530_830] Microphone wiring

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-22 17:09:28 UTC
From: martin
Topic: 11443 Message: 21571

Hi Ivo. The mic you have should work, although the TS-520S is
designed for a high impedance mic. In your case with the mic wired
for CB use, either the PTT RX line (button not pushed) or the PTT TX
(button pushed) is shorted to the GND wire.

To make the mic work for the Kenwood radios, you need to reconnect the
wires on the switch inside the mic so that the GND is not connected to
the switch. The PTT RX and PTT TX wires need to be wired so that they
are connected together when the button is pushed. This needs to be
done inside the microphone itself. The GND needs to be not connected
in any way to the PTT. Then wire according to the TS-520S manual.

TTYL

ivokenwood wrote:
> Hello all...
>
> For my TS520S I have bought an older CB microphone DM-2C (Albrecht). Its wiring is:
> 1. Audio/AF
> 2. GND
> 3. PTT RX
> 4. PTT TX
> How should I re-organise it's wiring to suit the Kenwood's microphone socket?
> And impedance 500 Ohm will work?
>
> Thanks all for help.
>
> Ivo, OK2SHI
>
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

21572. Re: What is ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-22 22:22:51 UTC
From: sootydave
Topic: 21562 Message: 21572

Hi Allan.
Well the ts-930 is by fare the better radio, in my appinion. as to the last Hybrid. The 830 was i think. the TS-930 is all solide state. i will say this i have one on my desk i use every day, they come with problems, nothing that cant be fixed. a very nice radio esspecialy the RX, out performs my FT-950.
keep a look out on some of the ham outlets,RandL hamstation some times have them for a good price. i would shy away from ebay unless it's being sold by a fellow ham.
thats my 2cents
73's dave kg4uxr

--- In TS-520_820_530_830@yahoogroups.com, "AllanKB5DOH" <a1mc@...> wrote:
>
>
> Hi, To all the dads out there sincerely hope you had a fantastic fathers
> day. Now for the questions,
>
> between the TS-930 & TS-940 a friend said forget the TS-940 because it
> had some problems he said the 930 was better & is not the TS-930 the
> last of the hybrid or was the 830 the last if I was to get one where
> besides ebay can I find one.
>
> Thanks & 73 & God Bless Allan=kb5doh
>
>
>
> [Non-text portions of this message have been removed]
>

21573. RE: [TS-520_820_530_830] Re: What is ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-22 22:40:32 UTC
From: Garrett, Russ
Topic: 21562 Message: 21573

This is actually a discussion I was hoping would arise one day. I have used an 820s and now have an 830s. One of my good friends has an 850s with all of the filters and the AT. He actually likes the filtering and the bandwidth filter better on the 830s than on his 850s. I have heard wonderful things about the 850s and the 930s but have really never understood the primary differences or the relative value of either. I have considered a solid state transceiver to add but frankly have not known what to get if I were to get a Kenwood. So, the 850s or the 930s?

Feel free to reply offline if you'd like. I realize that this list is dedicated to our favorites with tube finals.

Incidentally, I may be willing to sell my 820s after field day. It's in great shape. I have both the ssb and cw filters. The cw filter has a slightly higher pitch than the normal range. Some like it higher and some don't. the original Ham used a marking tool to write his Oregon Drivers license into the side of the plastic on the transceiver, the speaker and the mic but I never see it unless I look for it. It was fully aligned about 6 months ago but I'm going to use it for field day for both cw and ssb before I let it go.

I am enjoying the 830 too much!

73

Russ

Kd7mpk

Hi Allan.
Well the ts-930 is by fare the better radio, in my appinion. as to the last Hybrid. The 830 was i think. the TS-930 is all solide state. i will say this i have one on my desk i use every day, they come with problems, nothing that cant be fixed. a very nice radio esspecialy the RX, out performs my FT-950.
keep a look out on some of the ham outlets,RandL hamstation some times have them for a good price. i would shy away from ebay unless it's being sold by a fellow ham.
thats my 2cents
73's dave kg4uxr

--- In TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com> , "AllanKB5DOH" <a1mc@...>
wrote:
>
>
> Hi, To all the dads out there sincerely hope you had a fantastic

fathers
> day. Now for the questions,
>
> between the TS-930 & TS-940 a friend said forget the TS-940 because it
> had some problems he said the 930 was better & is not the TS-930 the
> last of the hybrid or was the 830 the last if I was to get one where
> besides ebay can I find one.
>
> Thanks & 73 & God Bless Allan=kb5doh
>
>
>
> [Non-text portions of this message have been removed]
>

mail.bullivant.com made the following annotations

Please be advised that, unless expressly stated otherwise, any U.S. federal tax advice contained in this e-mail, including attachments, is not intended to be used by any person for the purpose of avoiding any penalties that may be imposed by the Internal Revenue Service.

[Non-text portions of this message have been removed]

21574. Fw: TS-820 DG-1 Counter Assy

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-23 14:24:57 UTC
From: jsloss
Topic: 21574 Message: 21574

I need a good counter board for my DG-1. My board skips the tens digits every once in a while while tu ning. IE it might read 72--.4. Board is bad as confirmed by installing a known good one. Have resoldered EVERY connection on the board w/ no luck. If I can't find a counter board then I'll sell the DG-1 with a good Mixer board, bad Counter board and good display to one who needs parts.

Joe k7mks

[Non-text portions of this message have been removed]

21575. lost transmit and recieve

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-23 08:07:23 UTC
From: chuck_meilicke
Topic: 21575 Message: 21575

Still a few glitches in this ol girl. was tuning up 10 meter threw a dummy load the meter was very irratic when trying to peak the drive. thought id try to tune 15 thinking maybee my finals were going or something.at that point no deflection on the meter at all. then went off the dummy load to find i lost recieve as well. one time before the radio lost all recieve..seems to come back on its on with time..trying to find the problem not shure where to start.the t/r relay is fine....chuck

21576. kenwood 820s no rx no tx

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-23 17:07:17 UTC
From: chuck_meilicke
Topic: 21576 Message: 21576

Hello i was tuning up 10m last night to see what cond my finals were in..the meter was a bit jumpy then i lost all rx an tx..been cleaning some conectors and checking for loose connections but i still have nothing.any suggestions on were to start looking...chuck also the calibrator marker cannot be heard

21577. Re: [TS-520_820_530_830] kenwood 820s no rx no tx

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-23 17:25:02 UTC
From: Gordon JC Pearce
Topic: 21576 Message: 21577

On Tue, 2009-06-23 at 17:07 +0000, chuck_meilicke wrote:
> Hello i was tuning up 10m last night to see what cond my finals were
> in..the meter was a bit jumpy then i lost all rx an tx..been cleaning
> some conectors and checking for loose connections but i still have
> nothing.any suggestions on were to start looking...chuck also the
> calibrator marker cannot be heard

Any activity on any band at all?

Anything from the VFO?

Gordon 2M0YEQ

21578. Re: [TS-520_820_530_830] kenwood 820s no rx no tx

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-23 17:33:06 UTC
From: chuck meilicke
Topic: 21576 Message: 21578

checking it now Gordon. im pretty green with this stuff iv worked on simple tube am radios.But im determined to find this problem.moving the band switch around does nothing. cleaned many differnt contacts around the radio nothing still.when you ask anything from the vfo...what do you exactly mean by that.Im not really a tec but im persistant enough to fix almost anything..just need to know where to start ..chuck

--- On Tue, 6/23/09, Gordon JC Pearce <gordon@...> wrote:

From: Gordon JC Pearce <gordon@...>
Subject: Re: [TS-520_820_530_830] kenwood 820s no rx no tx
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, June 23, 2009, 12:25 PM

On Tue, 2009-06-23 at 17:07 +0000, chuck_meilicke wrote:

> Hello i was tuning up 10m last night to see what cond my finals were

> in..the meter was a bit jumpy then i lost all rx an tx..been cleaning

> some conectors and checking for loose connections but i still have

> nothing.any suggestions on were to start looking...chuck also the

> calibrator marker cannot be heard

Any activity on any band at all?

Anything from the VFO?

Gordon 2M0YEQ

[Non-text portions of this message have been removed]

21579. Re: [TS-520_820_530_830] kenwood 820s no rx no tx

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-23 17:44:09 UTC
From: chuck meilicke
Topic: 21576 Message: 21579

ok wile the radio was on i removed the plug that goes to rf1 same board as the driver tube..moved it around a bit and the radio is on..but i think this will hapen again looking for the heat of the problem think its more than a loose connection not shure

--- On Tue, 6/23/09, Gordon JC Pearce <gordon@...> wrote:

From: Gordon JC Pearce <gordon@...>
Subject: Re: [TS-520_820_530_830] kenwood 820s no rx no tx
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, June 23, 2009, 12:25 PM

On Tue, 2009-06-23 at 17:07 +0000, chuck_meilicke wrote:

> Hello i was tuning up 10m last night to see what cond my finals were

> in..the meter was a bit jumpy then i lost all rx an tx..been cleaning

> some conectors and checking for loose connections but i still have

> nothing.any suggestions on were to start looking...chuck also the

> calibrator marker cannot be heard

Any activity on any band at all?

Anything from the VFO?

Gordon 2M0YEQ

[Non-text portions of this message have been removed]

21580. Re: kenwood 820s no rx no tx

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-23 18:32:50 UTC
From: chuck_meilicke
Topic: 21576 Message: 21580

--- In TS-520_820_530_830@yahoogroups.com, "chuck_meilicke" <chuck_meilicke@...> wrote:
>
> Hello i was tuning up 10m last night to see what cond my finals were in..the meter was a bit jumpy then i lost all rx an tx..been cleaning some conectors and checking for loose connections but i still have nothing.any suggestions on were to start looking...chuck also the calibrator marker cannot be heard
>
ok I think I found the problem.i cleaned the plug that went to rf1 and even a little light burnishing..bam back up and working.but found that if i wiggled the board all rf an tx went dead again..took the board out and cleaned all connectors.put it back in and i cant duplicate the problem think i got her fixed..worried about tunning up on 10m again.any other suggestions before i put the cover back on would be great...chuck

21581. Re: [TS-520_820_530_830] kenwood 820s no rx no tx

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-23 20:06:39 UTC
From: Sulaiman Abdullah
Topic: 21576 Message: 21581

My TS-520S has a slightly faulty FUNCTION switch (I'll get around to fixing it one day) which can give the symptoms you described.
Try rotating the FUNCTION switch a few times.

----- Original Message -----
From: chuck_meilicke
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, June 23, 2009 6:07 PM
Subject: [TS-520_820_530_830] kenwood 820s no rx no tx

Hello i was tuning up 10m last night to see what cond my finals were in..the meter was a bit jumpy then i lost all rx an tx..been cleaning some conectors and checking for loose connections but i still have nothing.any suggestions on were to start looking...chuck also the calibrator marker cannot be heard

[Non-text portions of this message have been removed]

21582. TS-830S: Time for new finals?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-23 20:09:21 UTC
From: Dana Borgman
Topic: 21582 Message: 21582

Hello All,

I am having problems with my TS-830. I just finished replacing the four 20 ohm resistors on my final board, and installed the final repair kit sold by K4EAA. I also started going through the maintenance and alignment procedures in the owner's manual. I have not done the drive coils because I don't have an alignment tool that is the right size yet.

I was just barely able to get the idle plate current to 60 mA by adjusting the bias. Today I couldn't get it higher than that -- not that I normally would want to. While trying to see what kind of power output I was getting into a dummy load by increasing the carrier, I burned up all 4 of the 20 ohm resistors on the final board with a pop. Fortunately, I expected I would do something like that and ordered extras.

Is the lack of idle plate current any indication that the finals are reaching the end? I have no problem swinging the meter in ALC mode while adjusting the drive control.

Thanks,
-- Dana, KA1WPM

[Non-text portions of this message have been removed]

21583. finals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-23 20:41:36 UTC
From: chuck_meilicke
Topic: 21583 Message: 21583

Well i got the tx/rx problem fixed. had to remove a board and clean it well. the bad news is my alc drive wont hold up. even in ip on the tune falls from 225ma. so alc weak even carrier up all the way. and idle current falls from 225 ma..would the group agree time for new driver and maybee the finals as well?

21584. Burnt Band switch wafers

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-23 22:06:29 UTC
From: Greg Fox
Topic: 21584 Message: 21584

After much head scratching and looking at my TS-520S I have found two damaged band switch wafers under the shield in the finals circuit at the back of the unit. Does anyone know of a compatible switch part number or a source for replacement?

21585. Re: [TS-520_820_530_830] TS-830S: Time for new finals?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-23 22:17:32 UTC
From: richard
Topic: 21582 Message: 21585

On Tue, 23 Jun 2009 16:09:21 -0400
Dana Borgman <ka1wpm@...> wrote:

> Hello All,
>
> I am having problems with my TS-830. I just finished replacing the
> four 20 ohm resistors on my final board, and installed the final
> repair kit sold by K4EAA. I also started going through the
> maintenance and alignment procedures in the owner's manual. I have
> not done the drive coils because I don't have an alignment tool that
> is the right size yet.
>
> I was just barely able to get the idle plate current to 60 mA by
> adjusting the bias. Today I couldn't get it higher than that -- not
> that I normally would want to. While trying to see what kind of power
> output I was getting into a dummy load by increasing the carrier, I
> burned up all 4 of the 20 ohm resistors on the final board with a pop.
> Fortunately, I expected I would do something like that and ordered
> extras.
>
> Is the lack of idle plate current any indication that the finals are
> reaching the end? I have no problem swinging the meter in ALC mode
> while adjusting the drive control.
>
> Thanks,
> -- Dana, KA1WPM
>
>
> [Non-text portions of this message have been removed]
>

Have a look at the screen grid bias, For the resistors to rapid blow,
go pop, it sounds as if the tubes where switched hard on.

The control on a tube is either by decreasing the control grid voltage,
Vg1, or by increasing the screen grid.
As you were at the limit on bias adjustment to get Ia above 60 mA, The
screen grid voltage may be low.
I suspect the screen grid feed resistors may have gone high. I don't
have a manual to check what the values should be.
But screen grid feed resistors going high with age is a very common
fault with tetrodes. Screen grid current will flow in both
directions depending on the tuning, If the resistors have gone high and
they where using the screen grid source to dump current into the screen
grid voltage rises, more gain more current into the screen grid source
and more anode current.

Its difficult to spot unless you monitor grid currents, a facility not provided by kenwood, but anyone with a big linear amp will be aware of the problem.
HTH
Some one on the list will have a manual handy for the values of the resistors.

--
Best wishes

Richard Bown

##
Registered Linux User 36561
OS: Mandriva 2009.1 Spring Powerpack on an AMD Dual Athlon 64 +4400: 8 GB RAM DDR2 Ham Call: G8JVM , QRA IO82SP, Interests Microwave 1.3 GHz,2.3 GHz & 5.7GHz & 10 GHz
##

21586. Re: TS-520S Erratic AVC

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-23 22:24:43 UTC
From: scott10k
Topic: 21524 Message: 21586

Thanks for the replies. I think I have fixed the problem by replacing C11 (a 100 uf, 16v electrolytic cap) on the Fix Channel AVR Board, This is part of the -6vdc supply. I raised the cap rating to 35v while at it. This was a suggestion in the Kenwood Service Notes list on mods.dk. Now the "Slow" AVC setting acts like it should compared to the "Fast" setting, and the S-meter is not jumping around. Thanks again.
73s, Scott, N6CIC

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> A broken wire or very poor connection from the AGC switch's
> "SLOW" switch terminal that connects to the IF UNIT's "AGS"
> connection can cause this problem. If the S meter is indicating
> signal strength in FAST but rests at zero in OFF, then I suspect
> the AGC amplifier is operating properly. What is NOT operating
> properly is the "SLOW" position. Again, as I said above, a broken
> connection between the AGC "SLOW" switch terminal and the IF UNIT's
> "AGS" terminal will cause this to happen.
>
>
> Mike W5RKL
>
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@> wrote:
> >
> > maybe the switch is wired backwards......
> >
> >
> > had the switch ever been replaced, or removed to clean and matbe put in
> > upside down
> >
> >
> > ----- Original Message -----
> > From: "scott10k" <scottandalene@>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Friday, June 19, 2009 8:37 PM
> > Subject: [TS-520_820_530_830] TS-520S Erratic AVC
> >
> >
> > > When in receive with the AVC 3-way switch set to "slow", the AVC action is
> > > very jumpy, not much different than when the switch is set to "fast". Any
> > > idea what the problem might be and what I should do to correct it?
> > > TNX and 73s,

> > > Scott, N6CIC
> > >
> > >
> > >
> > > ------------------------------------
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >
> >
>

21587. Re: [TS-520_820_530_830] TS-830S: Time for new finals?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-23 23:05:12 UTC
From: Gordon JC Pearce
Topic: 21582 Message: 21587

On Tue, 2009-06-23 at 23:17 +0100, richard wrote:

> Have a look at the screen grid bias, For the resistors to rapid blow,
> go pop, it sounds as if the tubes where switched hard on.
>
> The control on a tube is either by decreasing the control grid voltage,
> Vg1, or by increasing the screen grid.
> As you were at the limit on bias adjustment to get Ia above 60 mA, The
> screen grid voltage may be low.
> I suspect the screen grid feed resistors may have gone high. I don't
> have a manual to check what the values should be.

There are a couple of 1/2W 100 ohm resistors within the PA enclosure. Being big old carbon resistors, you'll find that these have split lengthwise and now their actual resistance is anybody's guess. If the cathode resistors are in a sorry state, these grid resistors may not be far behind. You may also want to check that the screen grid voltage is changing when you switch between TUNE and the other modes

If you've changed the PA valves or if you suspect you may be boldly going where others have gone before with hobnailed boots, you should adjust the neutralising capacitor.

Gordon 2M0YEQ

21588. Re: [TS-520_820_530_830] finals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-23 23:10:26 UTC
From: Gordon JC Pearce
Topic: 21583 Message: 21588

On Tue, 2009-06-23 at 20:41 +0000, chuck_meilicke wrote:
> Well i got the tx/rx problem fixed. had to remove a board and clean it
> well. the bad news is my alc drive wont hold up. even in ip on the
> tune falls from 225ma. so alc weak even carrier up all the way. and
> idle current falls from 225 ma..would the group agree time for new
> driver and maybee the finals as well?

Check the manual carefully. The idle current should be set in
accordance with the manual to 60mA. Make sure you turn it to minimum
and increase it slowly, otherwise you risk damaging the valves or
popping the mains fuse.

When the radio is correctly tuned up you should see about 200mA on the
meter. If your aerial isn't quite well matched, you'll see somewhat
less current on the meter. Furthermore, on the higher bands you may
find that the ALC is very "peaky" and the PA is harder to tune - and you
get less power anyway.

If you can load it up and make a contact, it's working well enough.

Gordon 2M0YEQ

21589. Re: finals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-24 02:50:05 UTC
From: w5rkl
Topic: 21583 Message: 21589

Hello Chuck,

If the ALC peaks in TUNE mode but falls off rapidly then I suspect
a weak 12BY7 driver tube.

If the problem turns out to be a weak driver tube, you do not
necessarily have to replace the finals too.

The 225ma IP current is NOT the "idling current" but rather the
final amplifier's plate current caused by amplifying the driver's
RF signal.

The final amplifier's "idling current" is the "no signal" 60ma
set by the bias pot on the rear panel in sideband mode. See the
operator's manual for details on how to set the idling current.

Although it is important to set the final amplifier's idling current
to 60ma, if it's off slightly either way, + or - a few milliamps,
the final amplifier will not be significantly affected. If you notice
this, simply follow the bias adjustment procedure outlined in the
operators manual.

When replacing final tubes, always check and, if necessary, adjust
the final amplifier bias to 60ma as outlined in the operators
manual. You do NOT have to adjust the final amplifier's bias
setting when replacing only the driver tube.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "chuck_meilicke" <chuck_meilicke@...> wrote:
>
> Well i got the tx/rx problem fixed. had to remove a board and clean it well. the bad news is my alc drive wont hold up. even in ip on the tune falls from 225ma. so alc weak even carrier up all the way. and idle current falls from 225 ma..would the group agree time for new driver and maybee the finals as well?
>

21590. Ham Holiday 2009

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-24 04:21:05 UTC
From: AllanKB5DOH
Topic: 21590 Message: 21590

Ham Holiday 2009 will be this July 24th & 25th in Oklahoma City at a NEW location check the link for full information.

http://www.hamholiday.org/ <http://www.hamholiday.org/>

[Non-text portions of this message have been removed]

21591. 830 IF Shift issue

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-24 12:03:10 UTC
From: onefez
Topic: 21591 Message: 21591

Hi hi hi,
Sort of recently I got this 830S and noticed that the IF Shift on LSB was always fully CW for best audio, and USB was always fully CCW for "centering" the best audio. The other nite was on 20 m. and listening when I dropped to 40 m. I neglected to switch to LSB and spin the IF Shift and then lo and behold, I heard the station almost perfectly. The thing is when I did put it on LSB and then twisted the IF Shift fully CW it was fine also... So, looking at the adjustments (in service manual) I don't really see how this can be true. Also don't see how come the middle of the pot isn't doing what I think it should be doing, allowing up and down shifting of the IF. This is an old baby, serial # starts with a 1xxxxx. Is there something I am missing here, or is this all out of adjustment and needs some serious attention. I haven't done anything to it, except operate and enjoy it much more than my last rig. Any insight appreciated,
Steve
N9FEZ /ae

21592. Re: TS-830S: Time for new finals?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-23 23:10:55 UTC
From: Dana
Topic: 21582 Message: 21592

```
--- In TS-520_820_530_830@yahoogroups.com, richard <richard.bown@...> wrote:
>
> On Tue, 23 Jun 2009 16:09:21 -0400
> Dana Borgman <ka1wpm@...> wrote:
>
> > Hello All,
> >
> > I am having problems with my TS-830. I just finished replacing the
> > four 20 ohm resistors on my final board, and installed the final
> > repair kit sold by K4EAA. I also started going through the
> > maintenance and alignment procedures in the owner's manual. I have
> > not done the drive coils because I don't have an alignment tool that
> > is the right size yet.
> >
> > I was just barely able to get the idle plate current to 60 mA by
> > adjusting the bias. Today I couldn't get it higher than that -- not
> > that I normally would want to. While trying to see what kind of power
> > output I was getting into a dummy load by increasing the carrier, I
> > burned up all 4 of the 20 ohm resistors on the final board with a pop.
> > Fortunately, I expected I would do something like that and ordered
> > extras.
> >
> > Is the lack of idle plate current any indication that the finals are
> > reaching the end? I have no problem swinging the meter in ALC mode
> > while adjusting the drive control.
> >
> > Thanks,
> > -- Dana, KA1WPM
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
> Have a look at the screen grid bias, For the resistors to rapid blow,
> go pop, it sounds as if the tubes where switched hard on.
>
> The control on a tube is either by decreasing the control grid voltage,
> Vg1, or by increasing the screen grid.
> As you were at the limit on bias adjustment to get Ia above 60 mA, The
> screen grid voltage may be low.
> I suspect the screen grid feed resistors may have gone high. I don't
> have a manual to check what the values should be.
> But screen grid feed resistors going high with age is a very common
> fault with tetrodes. Screen grid current will flow in both
> directions depending on the tuning, If the resistors have gone high and
```

> they where using the screen grid source to dump current into the screen
> grid voltage rises, more gain more current into the screen grid source
> and more anode current.
> Its difficult to spot unless you monitor grid currents, a facility not
> provided by kenwood, but anyone with a big linear amp will be aware of
> the problem.
> HTH
> Some one on the list will have a manual handy for the values of the
> resistors.
>
> --
> Best wishes
>
> Richard Bown
>
> ##
> Registered Linux User 36561
> OS: Mandriva 2009.1 Spring Powerpack on an AMD Dual Athlon 64 +4400: 8
> GB RAM DDR2 Ham Call: G8JVM , QRA IO82SP, Interests Microwave 1.3
> GHz,2.3 GHz & 5.7GHz & 10 GHz
> ##
>
Thank you, Richard. I measured some of the resistances around the finals. It seems that, while all four cathode resistors appeared damaged, the resistance measured across them was 6.7 ohms. So, it appears that only one was destroyed.

As for the screen resistors, these measured 99.7 and 99.8 ohms, and are specified as 100 ohms. I will look at the screen bias, as you suggest. This should be 264 volts in RX and 222 volts in TX. Maybe there is something wrong with the voltage feeding those two resistors.

Cheers,
-- Dana

21593. Re: TS-830S: Time for new finals?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-24 14:56:20 UTC
From: Dana
Topic: 21582 Message: 21593

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce <gordon@...> wrote:
>
> On Tue, 2009-06-23 at 23:17 +0100, richard wrote:
>
> > Have a look at the screen grid bias, For the resistors to rapid blow,
> > go pop, it sounds as if the tubes where switched hard on.
> >
> > The control on a tube is either by decreasing the control grid voltage,
> > Vg1, or by increasing the screen grid.
> > As you were at the limit on bias adjustment to get Ia above 60 mA, The
> > screen grid voltage may be low.
> > I suspect the screen grid feed resistors may have gone high. I don't
> > have a manual to check what the values should be.
>
> There are a couple of 1/2W 100 ohm resistors within the PA enclosure.
> Being big old carbon resistors, you'll find that these have split
> lengthwise and now their actual resistance is anybody's guess. If the
> cathode resistors are in a sorry state, these grid resistors may not be
> far behind. You may also want to check that the screen grid voltage is
> changing when you switch between TUNE and the other modes
>
> If you've changed the PA valves or if you suspect you may be boldly
> going where others have gone before with hobnailed boots, you should
> adjust the neutralising capacitor.
>
> Gordon 2M0YEQ
>

Gordon,

I replaced the screen resistors when I replaced the cathode resistors last week. I replaced the cathode resistors again last night. The screen resistors are still measuring 100 ohms. I had also neutralized the finals, just to be sure.

I took your advice and checked the screen voltage in TUNE and CW. Sure enough, the difference is not much. I checked R16 on the rectifier board, and it seems high, > 130 K. When I was probing voltages yesterday, I was expecting the voltage at TUN on the rectifier board to be half of SG2. It was only a little lower. So I guess the R15/R16 voltage divider is no good. I'm sure I haven't been making the finals happy while tuning, in that case.

Cheers,
-- Dana

21594. Re: [TS-520_820_530_830] Re: TS-830S: Time for new finals?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-24 16:46:46 UTC
From: Gordon JC Pearce
Topic: 21582 Message: 21594

On Wed, 2009-06-24 at 14:56 +0000, Dana wrote:

> I took your advice and checked the screen voltage in TUNE and CW.
> Sure enough, the difference is not much. I checked R16 on the
> rectifier board, and it seems high, > 130 K. When I was probing

R15 and R16 should both be 56K! if R16 has gone high then the screen grid voltage will be too high.

In general it's worth checking high value resistors that are involved in high voltage circuits on older kit. Years ago the BRC 1400 chassis was pretty common as a hand-me-down bedroom TV - all my mates had them (and I had several, in various states of repair) - where the resistor that fed the top of the brightness control went high. R119, 220k - usually found to be 1M or more. Why can I remember that, but not the PIN for the burglar alarm?

> voltages yesterday, I was expecting the voltage at TUN on the
> rectifier board to be half of SG2. It was only a little lower. So I
> guess the R15/R16 voltage divider is no good. I'm sure I haven't been
> making the finals happy while tuning, in that case.

Well you will have been running the finals at more-or-less full chat while tuning. Not great, but they're tough. You won't have hurt it much.

Gordon 2M0YEQ

21595. 1.3uh RF Choke

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-24 17:41:01 UTC
From: Gordon
Topic: 21595 Message: 21595

I am looking for a 1.3uh RF choke. Kenwood part number L33-0025-05

Anyone have or know where i can buy one?

Thanks,
Gordon
N6WK

21596. Re: Microphone wiring

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-25 16:13:47 UTC
From: ivokenwood
Topic: 11443 Message: 21596

Thanks Martin, I will do it.

Ivo, OK2SHI

--- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@...> wrote:
>
> Hi Ivo. The mic you have should work, although the TS-520S is
> designed for a high impedance mic. In your case with the mic wired
> for CB use, either the PTT RX line (button not pushed) or the PTT TX
> (button pushed) is shorted to the GND wire.
>
> To make the mic work for the Kenwood radios, you need to reconnect the
> wires on the switch inside the mic so that the GND is not connected to
> the switch. The PTT RX and PTT TX wires need to be wired so that they
> are connected together when the button is pushed. This needs to be
> done inside the microphone itself. The GND needs to be not connected
> in any way to the PTT. Then wire according to the TS-520S manual.
>
> TTYL
>
>
> ivokenwood wrote:
> > Hello all...
> >
> > For my TS520S I have bought an older CB microphone DM-2C (Albrecht). Its wiring is:
> > 1. Audio/AF
> > 2. GND
> > 3. PTT RX
> > 4. PTT TX
> > How should I re-organise it's wiring to suit the Kenwood's microphone socket?
> > And impedance 500 Ohm will work?
> >
> > Thanks all for help.
> >
> > Ivo, OK2SHI
> >
> >
> >
>
> --
> CUL8R
>
> KBOHAE kb0hae@... Martin Campbell
>
> A Satisfied Sidux Linux user! To get Sidux go to:

> www.sidux.com/index.html
> "Protect your digital freedom and privacy, eliminate DRM, learn more
> at http://www.defectivebydesign.org/what_is_drm"
>

21597. Re: TS-830S: Time for new finals?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-25 18:37:41 UTC
From: Dana
Topic: 21582 Message: 21597

> R15 and R16 should both be 56K! if R16 has gone high then the screen
> grid voltage will be too high.
>
> In general it's worth checking high value resistors that are involved in
> high voltage circuits on older kit. Years ago the BRC 1400 chassis was
> pretty common as a hand-me-down bedroom TV - all my mates had them (and
> I had several, in various states of repair) - where the resistor that
> fed the top of the brightness control went high. R119, 220k - usually
> found to be 1M or more. Why can I remember that, but not the PIN for
> the burglar alarm?
>
> Well you will have been running the finals at more-or-less full chat
> while tuning. Not great, but they're tough. You won't have hurt it
> much.
>
> Gordon 2M0YEQ
>

Gordon, I have a 56K resistor in my shopping basket. Now on to the business of bias. My schematic shows that the voltage at the base of Q19 on the AF unit is controlled by the bias variable resistor. During RX, the voltage is specified as -104 volts, and during TX -59.7. I can adjust the voltage during RX to -104V. During TX, it goes to -75V, and not -59.7V as shown on the schematic. I am getting a little confused about how this voltage is supplied. I follow that the voltage across the bias variable resistor comes from VR1 and VR3, pins 1 and 3 of connector 5 on the AF unit.

VR1 comes from -C off the regulator board through R76, a 6.8K resistor on the AF Unit, correct? And this voltage should not change during TX or RX. I will check that. VR3 confuses me a bit, though. Is VR3 grounded through R78, also a 6.8K resistor, during TX? I am more confused about DRB and the source of VR3 when it is not tied to ground through R78. Can you help me sort this out? Thanks!

21598. Re: problems alc on ts520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-26 06:41:56 UTC
From: vk4baz
Topic: 21430 Message: 21598

Hello to everyone;

Well I finally checked all resistors on the 520s HV board which were well out also the rectifier board the 470k resistor were reading a bit high 600k to 3.3mo replaced those the finals resistors ok,put everything back together hoping everything is going to be good but still no ALC,what I didn't check before when asked was checking output power set to ip /cw no output power,my bottom lip started to quiver ,a little voice in my head said the fellas on this site will put you in the right direction ,
So what would be the next step to look for I am determined to get this right myself

barry vk4baz

> Barry,
>
> You're very welcome, anytime. I'm sure once you replace R5 and R6 your
> 520 will work just fine. Of course that's assuming there is nothing
> else wrong.
>
>
> Mike W5RKL
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@> wrote:
> >
> >
> > Mike,
> >
> > I checked my high voltage board on the 520s measured the resistance on R5 and R6 R5 was 55k well yea,but I fell overbackwards R6 was and I am gobsmacked 11.90 mega ohms now I feel I am getting somewhere thanks to you mike ,all I gotta do now is order the 1/2 watters I will keep you posted to see how I get on
> >
> > Barry,
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > >
> > > Hello Barry,
> > >
> > > I assume your statement of no ALC indication is in TUNE mode.
> > > Since ALC is not used or indicated on the meter in CW mode, tuning
> > > the 520 in CW mode requires using the IP meter setting. Place
> > > the MODE switch in CW, flip the SEND switch UP and adjust the
> > > DRIVE control for a peak indication on the meter. If a CW key

> > > is plugged into the rear CW socket, pull that plug before flipping
> > > the SEND switch UP. If you are able to tune the 520 in CW mode for
> > > full output then I recommend the following:
> > >
> > > Check R5 and R6 on the HV UNIT. If these resistors are bad, way
> > > out of tolerance, the screen voltage in TUNE mode will be much lower
> > > than it normally is in TUNE mode. This leads to very low or no ALC
> > > indication on the meter in TUNE mode which results in the inability
> > > to accurately tune the 520. R5 and R6 are 56K 1/2 watt resistor,
> > > color coded Green Blue Orange. Replace them if they are out of
> > > tolerance and check TUNE mode again.
> > >
> > >
> > > Mike W5RKL
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@> wrote:
> > > >
> > > > So basicly what this points to is that the finals could be sus ,I think its more
than that the tubes are new driver is new and I am not getting output so what would be a
good starting point to look for bar completely replace the if unit and the rf board havn't
got a clue at this moment
> > > >
> > > >
> > > >
> > > > -- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
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> > > > > Hello Barry,
> > > > >
> > > > > ALC is a transmitter ONLY control voltage and is only produced
> > > > > when grid current flows in the final tubes.
> > > > >
> > > > > When the transmitter's driving signal causes the final tube
> > > > > grids to become positive, a current flows between the final tube
> > > > > cathodes and grids. When this occurs, the ALC circuit senses this
> > > > > and creates ALC voltage. The ALC voltage varies at the same rate
> > > > > as the RF driving signal. The ALC voltage is then fed back to
> > > > > an earlier stage, normally the transmitter's IF amplifier, causing
> > > > > a reduction in the IF amplifier's gain which ultimately results
> > > > > in a reduction in the final amplifier's output. ALC voltage works
> > > > > just like a receiver's AGC voltage does, controls the gain of the
> > > > > transmitter.
> > > > >
> > > > > If the level of ALC voltage fed back to the IF amplifier is equal
> > > > > to or less than the operating bias of the IF amplifier, no gain
> > > > > reduction in the IF amplifier occurs. Gain reduction in the IF
> > > > > amplifier ONLY occurs if the ALC voltage exceeds the operating bias
> > > > > of the IF amplifier and not until then.
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> > > > > When the final tube grids become positive, gird current flows, and
> > > > > ALC voltage is produced, just as I state above. However, when
> > > > > this occurs, the final amplifier is no longer operating in a linear
> > > > > state and the output signal becomes distorted. ALC is designed to
> > > > > lower the gain of an earlier stage in order to allow the final
> > > > > amplifier to return to its linear state.
> > > > >
> > > > > The bottom line is, the lower the ALC indication the cleaner your
> > > > > signal will be.
> > > > >
> > > > > ALC is NOT used in CW because the transmitter's output level is
> > > > > "manually" controlled by the CAR control. The CAR control is used
> > > > > in both TUNE and CW modes but has absolutely no control what so
> > > > > ever in sideband (USB or LSB).
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> > > > > ALC works like AGC does in a receiver, except it is produced
> > > > > ONLY in the transmitter, never in the receiver.
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> > > > > Mike W5RKL
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> > > > > --- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@> wrote:
> > > > >
> > > > > Iam in need of help if possible, I resurrected a ts520s replaced the driver tube give it a receiver align ,mix osc ,I would like to do a drive coil align but my alc is not working on any band ,hv voltage is ok getting 850 approx what I really would like can anyone axplain what the alc does and where to start looking my knowledge on these old radios is about a 4 out of 10 I am hungry to know more thanking you
> > > > >
> > > > > barry
> > > > >
> > > > >
> > > > >

21599. Re: problems alc on ts520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-26 10:33:56 UTC
From: vk4baz
Topic: 21430 Message: 21599

(footnote to the question below)

,I decided to get off my behind and do the hard yards and look myself ,The way I understand it is on tune a carrier voltage is injected through the ring modulator into the if filter right up to the driver tube on the RF board ,what I did was check the voltage before and after Q1 before it enter the 12by7a voltage before on tp2 -4.3 idle send switch on 2.5volts as per diagram after Q1 on TP1 voltage idle 14.9v send switch up 14.4v the diagram says 3.3 but it looks like 13.3v can anybody correct this ,if the voltage is 3.3 then could Q1 be causing the output problems what do you think

Barry vk4baz

--- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@...> wrote:
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> Well I finally checked all resistors on the 520s HV board which were well out also the rectifier board the 470k resistor were reading a bit high 600k to 3.3mo replaced those the finals resistors ok,put everything back together hoping everything is going to be good but still no ALC,what I didn't check before when asked was checking output power set to ip /cw no output power,my bottom lip started to quiver ,a little voice in my head said the fellas on this site will put you in the right direction ,
> So what would be the next step to look for I am determined to get this right myself
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> barry vk4baz
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>
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> > Barry,
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> > You're very welcome, anytime. I'm sure once you replace R5 and R6 your
> > 520 will work just fine. Of course that's assuming there is nothing
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> > > > > > > barry
> > > > > > >

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> >
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21600. Re: problems alc on ts520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-26 14:16:44 UTC
From: w5rkl
Topic: 21430 Message: 21600

Hello Barry,

Have you checked the CAR UNIT's alignment yet? It's possible
the CWT signal is off frequency enough to prevent the CAR signal
from passing through the IF UNIT filters which results in very little,
if any, mixing of the CAR signal and the VFO signal in the IF UNIT's
Q2 mixer. If this occurs, there will be no "TIF" signal to mix
on the RF UNIT with the band selected heterodyne oscillator
resulting in no operating frequency applied to the driver and
ultimately, no RF drive to the final amplifier.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@...> wrote:
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> (footnote to the question below)
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> > > > > >
> > > > > > So basicly what this points to is that the finals could be sus ,I think its more than that the tubes are new driver is new and I am not getting output so what would be a good starting point to look for bar completely replace the if unit and the rf board havn't got a clue at this moment
> > > > > > >
> > > > > > >
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> > > > > > > -- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > > > > > > >
> > > > > > > > Hello Barry,
> > > > > > > >
> > > > > > > > ALC is a transmitter ONLY control voltage and is only produced
> > > > > > > > when grid current flows in the final tubes.
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> > > > > > > > When the transmitter's driving signal causes the final tube
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> > > > > > > > and creates ALC voltage. The ALC voltage varies at the same rate
> > > > > > > > as the RF driving signal. The ALC voltage is then fed back to
> > > > > > > > an earlier stage, normally the transmitter's IF amplifier, causing
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> > > > > > > > The bottom line is, the lower the ALC indication the cleaner your
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> > > > > > > > ALC is NOT used in CW because the transmitter's output level is
> > > > > > > > "manually" controlled by the CAR control. The CAR control is used
> > > > > > > > in both TUNE and CW modes but has absolutely no control what so
> > > > > > > > ever in sideband (USB or LSB).
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> > > > > > > ALC works like AGC does in a receiver, except it is produced
> > > > > > > > ONLY in the transmitter, never in the receiver.
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> > > > > > > > Mike W5RKL
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> > > > > > > > > Iam in need of help if possible, I resurrected a ts520s replaced the driver tube give it a receiver align ,mix osc ,I would like to do a drive coil align but my alc is not working on any band ,hv voltage is ok getting 850 approx what I really would like can anyone axplain what the alc does and where to start looking my knowledge on these old radios is about a 4 out of 10 I am hungry to know more thanking you
> > > > > > > > >
> > > > > > > > > barry
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21601. TS830 HV repair kit installation

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-26 13:39:18 UTC
From: Bopal
Topic: 21601 Message: 21601

I am in the middle of installing K4AEEE hi-v repair kit - the capacitors. It appears as if the original caps were connected to each other neg-to-neg (the cans say negative is black and there are black screws on the terminals). However, the schematic shows the caps connected pos-to-neg. Am I reading the schematic correctly?

73

John

21602. Re: TS-830S: Time for new finals?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-26 17:23:30 UTC
From: w5rkl
Topic: 21582 Message: 21602

Hello Dana,

>My schematic shows that the voltage at the base of Q19 on the AF
>unit is controlled by the bias variable resistor.

Yes.

>I am getting a little confused about how this voltage is supplied.
>I follow that the voltage across the bias variable resistor comes
>from VR1 and VR3, pins 1 and 3 of connector 5 on the AF unit.

Actually, the path the -C bias voltage takes is as follows.

Bias voltage, -C, from the Rectifier Unit is applied to the AF UNIT's
-C terminal where it is fed through R76 and out AF UNIT plug 5 pin 1
as "VR1". The VR1 bias voltage continues on to the bias pot pin 1
where it appears on the bias pot's wiper, pin 2. The bias pot's wiper,
based on its setting, applies the bias voltage to the AF UNIT
plug 8 pin 3 as VR2. VR2 bias voltage is then applied through R100 to
the base of Q19. VR2 bias voltage also appears at Q19's emitter
through resistor R101. Both Q19's emitter and bias voltage through
R101, are connected to the AF UNIT's "FG" terminal. The AF UNIT's
"FG" terminal is connected to the FINAL UNIT's "FG" terminal which
terminates at the final tube grids, pin 5, applying final tube
bias. Any change in the bias pot setting causes a change at Q19's
base and emitter, which results in a change in bias voltage on the
AF and FINAL UNIT's "FG" terminal, resulting in a change in bias
voltage applied to the final tube grids, pin 5.

At the same time, the bias voltage, VR1, flows through the bias pot
and back to the AF UNIT plug 5 pin 1 as "VR3". VR3 bias voltage
continues through R78 and R83, through diode D15, to AF UNIT plug 6
pin 5 as bias voltage "DRB". AF UNIT plug 6 pin 5 is further
connected to the RF UNIT plug 8 pin 1. The bias voltage continues
through RF UNIT resistor R34 to the driver tube's grid, pin 2.

Don't become confused by the "labeling". Bias voltage VR1, VR2, VR3,
and DRB, are "ALL" the same -C bias voltage that originated from
the Rectifier Unit's "-C" terminal and applied to the AF UNIT's
"-C" terminal! The only difference is the "labeling"!

> VR1 comes from -C off the regulator board through R76, a 6.8K
>resistor on the AF Unit, correct?

The -C voltage originates from the "Rectifier" Unit board, not a
"regulator" board. The -C voltage is fed to the AF UNIT's "-C"
terminal where it flows through R76 to AF UNIT plug 5 pin 3.

>And this voltage should not change during TX or RX.

That is correct.

> Is VR3 grounded through R78, also a 6.8K resistor, during TX?

Yes, through RL1 on the AF UNIT.

>I am more confused about DRB and the source of VR3 when it is not tied to ground through R78.

Bias voltage levels do change in transmit by providing
a ground path through R78 and AF UNIT relay RL1. The original -C
voltage does NOT change, only the voltage drop changes that occurs
in the circuit due to the changes in the circuit's resistance.

Mike W5RKL

21603. Re: TS830 HV repair kit installation

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-26 17:36:38 UTC
From: w5rkl
Topic: 21601 Message: 21603

John,

The HV capacitors are connected in "series".

The Rectifier Unit's "800" terminal, NOT the AC800 terminal,
connects to C24's positive terminal.

A short jumper wire connects C24's negative terminal to C22's
positive terminal.

The Rectifier Unit's 800 "0" terminal also connects to C22's
positive terminal.

The negative terminal of C22 connects to chassis ground.

Verify your wiring with the 830's schematic before applying
power, check for shorts and loose/poor solder connections to
the caps. Ensure you replace the 470K resistor and .01 disc caps.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Bopal" <bopal@...> wrote:
>
> I am in the middle of installing K4AEEE hi-v repair kit - the capacitors. It appears as if the original caps were connected to each other neg-to-neg (the cans say negative is black and there are black screws on the terminals). However, the schematic shows the caps connected pos-to-neg. Am I reading the schematic correctly?
>
> 73
>
> John
>

21604. Re: [TS-520_820_530_830] Re: problems alc on ts520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-27 02:02:30 UTC
From: Barry Travers
Topic: 21430 Message: 21604

Hello Mike,

First of all the voltages all the the way up to pin 5 and pin 3 on the finals are correct going by the diagram,
I decided to check the carrier unit as you said,something weird is happening or I think its my understanding of whats happening,
in the transmitter section it says current is generated by the audio mic then its injected with a 3.395 carrier signal,now I know that for cw ,lsb,usb 3 frequencies are produced with in the same range but of slight difference,my question is should I see a carrier frequency in tune mode as I am not seeing the carrier ,when I switch to CW /TUNE I see the carrier and the frequency ,the moment I hit the send switch the carrier disappears this is on the output of the carrier board
I am kind of stuck mike untill I can understand whats the carrier unit is suppose to do in tune mode when the send switch is turned on.wheather or not this is a problem I am not sure.

barry vk4baz

--- On Fri, 6/26/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: problems alc on ts520s
To: TS-520_820_530_830@yahoogroups.com
Date: Friday, June 26, 2009, 2:16 PM

Hello Barry,

Have you checked the CAR UNIT's alignment yet? It's possible
the CWT signal is off frequency enough to prevent the CAR signal
from passing through the IF UNIT filters which results in very little,
if any, mixing of the CAR signal and the VFO signal in the IF UNIT's
Q2 mixer. If this occurs, there will be no "TIF" signal to mix
on the RF UNIT with the band selected heterodyne oscillator
resulting in no operating frequency applied to the driver and
ultimately, no RF drive to the final amplifier.

Mike W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, "vk4baz" <dellthorp@. ..> wrote:
>
>
> (footnote to the question below)
>
> ,I decided to get off my behind and do the hard yards and look myself ,The way I understand it is on tune a carrier voltage is injected through the ring modulator into the if filter right up to the driver tube on the RF board ,what I did was check the voltage before and after Q1 before it enter the 12by7a voltage before on tp2 -4.3 idle send switch

on 2.5volts as per diagram after Q1 on TP1 voltage idle 14.9v send switch up 14.4v the diagram says 3.3 but it looks like 13.3v can anybody correct this ,if the voltage is 3.3 then could Q1 be causing the output problems what do you think
>
> Barry vk4baz
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> --- In TS-520_820_530_ 830@yahoogroups. com, "vk4baz" <dellthorp@> wrote:
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> > Hello to everyone;
> >
> > Well I finally checked all resistors on the 520s HV board which were well out also the rectifier board the 470k resistor were reading a bit high 600k to 3.3mo replaced those the finals resistors ok,put everything back together hoping everything is going to be good but still no ALC,what I didn't check before when asked was checking output power set to ip /cw no output power,my bottom lip started to quiver ,a little voice in my head said the fellas on this site will put you in the right direction ,
> > So what would be the next step to look for I am determined to get this right myself
> >
> > barry vk4baz
> >
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> >
> > > Barry,
> > >
> > > You're very welcome, anytime. I'm sure once you replace R5 and R6 your
> > > 520 will work just fine. Of course that's assuming there is nothing
> > > else wrong.
> > >
> > >
> > > Mike W5RKL
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> > >
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> > > --- In TS-520_820_530_ 830@yahoogroups. com, "vk4baz" <dellthorp@> wrote:
> > > >
> > > >
> > > > Mike,
> > > >
> > > > I checked my high voltage board on the 520s measured the resistance on R5 and R6 R5 was 55k well yea,but I fell overbackwards R6 was and I am gobsmacked 11.90 mega ohms now I feel I am getting somewhere thanks to you mike ,all I gotta do now is order the 1/2 watters I will keep you posted to see how I get on
> > > >
> > > > Barry,
> > > >
> > > >
> > > >
> > > > --- In TS-520_820_530_ 830@yahoogroups. com, "w5rkl" <w5rkl@> wrote:

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> > > > > Hello Barry,
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> > > > > I assume your statement of no ALC indication is in TUNE mode.
> > > > > Since ALC is not used or indicated on the meter in CW mode, tuning
> > > > > the 520 in CW mode requires using the IP meter setting. Place
> > > > > the MODE switch in CW, flip the SEND switch UP and adjust the
> > > > > DRIVE control for a peak indication on the meter. If a CW key
> > > > > is plugged into the rear CW socket, pull that plug before flipping
> > > > > the SEND switch UP. If you are able to tune the 520 in CW mode for
> > > > > full output then I recommend the following:
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> > > > > Check R5 and R6 on the HV UNIT. If these resistors are bad, way
> > > > > out of tolerance, the screen voltage in TUNE mode will be much lower
> > > > > than it normally is in TUNE mode. This leads to very low or no ALC
> > > > > indication on the meter in TUNE mode which results in the inability
> > > > > to accurately tune the 520. R5 and R6 are 56K 1/2 watt resistor,
> > > > > color coded Green Blue Orange. Replace them if they are out of
> > > > > tolerance and check TUNE mode again.
> > > > >
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> > > > > Mike W5RKL
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> > > > > ALC is a transmitter ONLY control voltage and is only produced
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> > > > > When the transmitter' s driving signal causes the final tube
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> > > > > just like a receiver's AGC voltage does, controls the gain of the

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> > > > > > > > If the level of ALC voltage fed back to the IF amplifier is equal
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> > > > > > > > lower the gain of an earlier stage in order to allow the final
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> > > > > > > > The bottom line is, the lower the ALC indication the cleaner your
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[Non-text portions of this message have been removed]

21605. New member looking to buy

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-27 01:39:01 UTC
From: MAXXOUT2@AOL.COM
Topic: 21605 Message: 21605

Hi Gang,
I used to have all the rigs 520,530,820,830 but sort of fell in love with
that TS 530.
If anyone knows someone selling one please *E* mail me direct.
I'm not worried about cosmetic conditions as long as the rig works
Will also consider a TS 830.
BOB
AF2Q
**********Stay connected and tighten your budget with a great mobile
device for under $20. Take a Peek!
(http://pr.atwola.com/promoclk/100122638x1222405996x1201457362/aol?redir=http://www.getpeek.com/aol)

[Non-text portions of this message have been removed]

21606. Re: problems alc on ts520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-27 05:04:17 UTC
From: w5rkl
Topic: 21430 Message: 21606

Hello Barry,

Yes, the carrier signal MUST be present in transmit regardless
of the mode. If the TUNE mode carrier is present in receive but
NOT in transmit, then that is why you have no ALC in TUNE mode
and no RF output, regardless of the CAR and DRIVE control settings.

I have seen this problem before and the problem turned out to
be a broken wire. You are going to have to trace the circuit
using the schematic as a guide to locate the source of the problem.
Use an ohm meter and check for continuity between points shown on
the schematic. At some point you will find the problem. Again, use
the schematic and trace the CW-T circuit.

Remove ALL power from the 520 and that includes pulling the power
plug from the wall outlet, when tracing the circuit using an
ohm meter.

I also recommend cleaning relay RL1. Relay RL1 is located on the
top left rear of the chassis under the VOX UNIT. See page 38 of
the 520S service manual for details on removing RL1. RL1 is a
plug in relay so you do not have to unsolder wires etc.

I also recommend cleaning the MODE and FUNCTION switch wafers
with contact cleaner.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Barry Travers <dellthorp@...> wrote:
>
> Hello Mike,
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> First of all the voltages all the the way up to pin 5 and pin 3 on the finals are correct going by the diagram,
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> barry vk4baz

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> --- On Fri, 6/26/09, w5rkl <w5rkl@...> wrote:
>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: problems alc on ts520s
> To: TS-520_820_530_830@yahoogroups.com
> Date: Friday, June 26, 2009, 2:16 PM
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> resulting in no operating frequency applied to the driver and
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> > > > > > is plugged into the rear CW socket, pull that plug before flipping
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> > > > > > --- In TS-520_820_530_ 830@yahoogroups. com, "vk4baz" <dellthorp@> wrote:
> > > > > >
> > > > > > So basicly what this points to is that the finals could be sus ,I think its more than that the tubes are new driver is new and I am not getting output so what would be a good starting point to look for bar completely replace the if unit and the rf board havn't got a clue at this moment
> > > > > >
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> > > > > > -- In TS-520_820_530_ 830@yahoogroups. com, "w5rkl" <w5rkl@> wrote:
> > > > > >
> > > > > > Hello Barry,
> > > > > >
> > > > > > ALC is a transmitter ONLY control voltage and is only produced
> > > > > > when grid current flows in the final tubes.
> > > > > >
> > > > > > When the transmitter' s driving signal causes the final tube
> > > > > > grids to become positive, a current flows between the final tube
> > > > > > cathodes and grids. When this occurs, the ALC circuit senses this
> > > > > > and creates ALC voltage. The ALC voltage varies at the same rate
> > > > > > as the RF driving signal. The ALC voltage is then fed back to
> > > > > > an earlier stage, normally the transmitter' s IF amplifier, causing
> > > > > > a reduction in the IF amplifier's gain which ultimately results
> > > > > > in a reduction in the final amplifier's output. ALC voltage works
> > > > > > just like a receiver's AGC voltage does, controls the gain of the
> > > > > > transmitter.
> > > > > >
> > > > > > If the level of ALC voltage fed back to the IF amplifier is equal
> > > > > > to or less than the operating bias of the IF amplifier, no gain
> > > > > > reduction in the IF amplifier occurs. Gain reduction in the IF
> > > > > > amplifier ONLY occurs if the ALC voltage exceeds the operating bias
> > > > > > of the IF amplifier and not until then.
> > > > > >

> > > > > > > > When the final tube grids become positive, gird current flows, and
> > > > > > > > ALC voltage is produced, just as I state above. However, when
> > > > > > > > this occurs, the final amplifier is no longer operating in a linear
> > > > > > > > state and the output signal becomes distorted. ALC is designed to
> > > > > > > > lower the gain of an earlier stage in order to allow the final
> > > > > > > > amplifier to return to its linear state.
> > > > > > > >
> > > > > > > > The bottom line is, the lower the ALC indication the cleaner your
> > > > > > > > signal will be.
> > > > > > > >
> > > > > > > > ALC is NOT used in CW because the transmitter' s output level is
> > > > > > > > "manually" controlled by the CAR control. The CAR control is used
> > > > > > > > in both TUNE and CW modes but has absolutely no control what so
> > > > > > > > ever in sideband (USB or LSB).
> > > > > > > >
> > > > > > > > ALC works like AGC does in a receiver, except it is produced
> > > > > > > > ONLY in the transmitter, never in the receiver.
> > > > > > > >
> > > > > > > > Mike W5RKL
> > > > > > > >
> > > > > > > >
> > > > > > > >
> > > > > > > > --- In TS-520_820_530_ 830@yahoogroups. com, "vk4baz" <dellthorp@> wrote:
> > > > > > > >
> > > > > > > > Iam in need of help if possible, I resurrected a ts520s replaced the driver tube give it a receiver align ,mix osc ,I would like to do a drive coil align but my alc is not working on any band ,hv voltage is ok getting 850 approx what I really would like can anyone axplain what the alc does and where to start looking my knowledge on these old radios is about a 4 out of 10 I am hungry to know more thanking you
> > > > > > > >
> > > > > > > > barry
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21607. TS-520 Concerns

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-27 04:53:20 UTC
From: john stuart
Topic: 21607 Message: 21607

I had a problem recently with my TS-520. While transmitting on 10-meters, the radio suddenly went dead. The meter pegged full-bore, and I could smell smoke and hear a crackling sound. The tubes were very hot, so after about an hour, I tried again, and it worked ok. I suspect the radio got overheated. I was transmitting quite a bit over 100 watts. Also, the fan seems not to work very well. I don't feel any air being moved.
A few weeks ago, I replaced the tubes. I talked to a tech at Kenwood. He told me what tubes to get from RF Parts. He also told me that the these tubes did not need to be finalized. Does that sound right to u?
Well anyways, could u please point me in the right direction with the over-heating problem? Do I need a new fan?. Should I back off the output? Finalize the tubes after all?
Any advice would be greatly appreciated.
Thanks, John Stuart KD5RDY
BTW..This group ROCKS!

21608. Re: [TS-520_820_530_830] TS-520 Concerns

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-27 09:51:05 UTC
From: Gordon JC Pearce
Topic: 21607 Message: 21608

On Sat, 2009-06-27 at 04:53 +0000, john stuart wrote:
> I had a problem recently with my TS-520. While transmitting on
> 10-meters, the radio suddenly went dead. The meter pegged full-bore,
> and I could smell smoke and hear a crackling sound. The tubes were

There are a few things that could cause this. First (and simplest), is the aerial actually connected? At both ends? Reliably? If the aerial is disconnected when you're transmitting, there's a lot of energy that has to go somewhere. If it's not going where it's meant to and heating up the ionosphere it'll find something else to heat.

The cathode resistors are 10 ohm 1W carbon resistors. They have quite a hard life tucked away under the PA valve bases. When I fired up my TS-520 it worked pretty well for a couple of days, then started showing higher and higher anode current and then popped the fuse. A quick check showed that the PA was running away and oscillating, and the cathode voltage was far higher than it should be. While trying to measure the resistance of the cathode resistors (two in parallel, so 5 ohms) one of them split in half - it had cracked along the side facing the chassis, out of site from above. From what others have said, it's probably worth just changing these on spec.

> very hot, so after about an hour, I tried again, and it worked ok. I
> suspect the radio got overheated. I was transmitting quite a bit over
> 100 watts. Also, the fan seems not to work very well. I don't feel any
> air being moved.

The fan should move a fair bit of air. It's very quiet, but noticeable when it's on. It's not a howling Rolls-Royce Trent of a thing, just a quiet whirr. It may have seized, in which case you'll need to clean and lubricate the bearings with a little drop of sewing machine oil. Don't scoosh it with WD40, it'll get everywhere and make your shack smell of paraffin.

> A few weeks ago, I replaced the tubes. I talked to a tech at Kenwood.
> He told me what tubes to get from RF Parts. He also told me that the
> these tubes did not need to be finalized. Does that sound right to u?

I think he means 'neutralised'. They do need neutralised. The manual tells you how to do it, and it's been discussed on this list a few times. Basically there's a trimmer capacitor wired between the anode circuit and drive circuit of the PA. When this is correctly adjusted, it cancels out the internal capacitance of the two PA valves. If this isn't set correctly, the transmitter may produce all manner of strange oscillations. If they're particularly bad it will oscillate uncontrollably and overheat (not to mention the grotty signal it

produces).

The manual shows how to neutralise the PA. It's pretty simple, but do take heed of the warning not to adjust the capacitor with a metal screwdriver - it is at anode potential. You don't want to short that to the earthed metal PA cage. You also don't want to earth it through you, because there's quite enough juice there to silence your key. Leave the PA cage lid on, because the capacitance of that big earthed metal plate near the anode caps will affect it.

On my TS-520 the neutralising cap was pretty much seized solid. I discharged the HT caps, removed the PA lid and spun the cap in both directions with a metal screwdriver that had an insulated sleeve on it until it was much easier to turn, having spread the crusty old grease around the spindle bush a bit. Then I put it all back together and set the neutralising using a 6" long plastic screwdriver made from a cut and shaped acrylic knitting needle. The plastic screwdriver is important both for safety reasons and because sticking a metal screwdriver in there (even with an insulated sleeve) will affect the tuning.

> Well anyways, could u please point me in the right direction with the
> over-heating problem? Do I need a new fan?. Should I back off the

Free up that fan. You probably don't need to replace it.

> output? Finalize the tubes after all?

Definitely finalise that PA. *After* you've got the cooling fan working.

> Any advice would be greatly appreciated.
> Thanks, John Stuart KD5RDY
> BTW..This group ROCKS!

Let me just finish by saying, I'm not kidding about the voltages in the PA cage and around the valve bases. If you're at all unsure about working on this stuff, get someone who has worked on valve or hybrid radios to help, and make sure there's someone handy who can chop the power if you do zap yourself.

Good luck ;-)

Gordon 2M0YEQ

21609. Re: problems alc on ts520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-27 12:46:45 UTC
From: vk4baz
Topic: 21430 Message: 21609

mike,

Looks like I might of stumbled onto something ,I have the carrier frequency entering the generator board 3.5mhz generator frequency dsb out nothing,I checked the vfo frequency into the if board 5.5mhz so I should of seen an output sum of about approx 8.8mhz I thought I might be able to get the vfo frequency less the generator frequency on output on the IF board, but could not get it, it either designed to show an output when the generator and vfo mix or either I missed it,
But I think the problem is in the generator board,what should I check first before going step by step you think .

Bary vk4baz

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello Barry,
>
> Yes, the carrier signal MUST be present in transmit regardless
> of the mode. If the TUNE mode carrier is present in receive but
> NOT in transmit, then that is why you have no ALC in TUNE mode
> and no RF output, regardless of the CAR and DRIVE control settings.
>
> I have seen this problem before and the problem turned out to
> be a broken wire. You are going to have to trace the circuit
> using the schematic as a guide to locate the source of the problem.
> Use an ohm meter and check for continuity between points shown on
> the schematic. At some point you will find the problem. Again, use
> the schematic and trace the CW-T circuit.
>
> Remove ALL power from the 520 and that includes pulling the power
> plug from the wall outlet, when tracing the circuit using an
> ohm meter.
>
> I also recommend cleaning relay RL1. Relay RL1 is located on the
> top left rear of the chassis under the VOX UNIT. See page 38 of
> the 520S service manual for details on removing RL1. RL1 is a
> plug in relay so you do not have to unsolder wires etc.
>
> I also recommend cleaning the MODE and FUNCTION switch wafers
> with contact cleaner.
>
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com, Barry Travers <dellthorp@> wrote:
> >
> > Hello Mike,

> >
> > First of all the voltages all the the way up to pin 5 and pin 3 on the finals are correct going by the diagram,
> > I decided to check the carrier unit as you said,something weird is happening or I think its my understanding of whats happening,
> > in the transmitter section it says current is generated by the audio mic then its injected with a 3.395 carrier signal,now I know that for cw ,lsb,usb 3 frequencies are produced with in the same range but of slight difference,my question is should I see a carrier frequency in tune mode as I am not seeing the carrier ,when I switch to CW /TUNE I see the carrier and the frequency ,the moment I hit the send switch the carrier disappears this is on the output of the carrier board
> > I am kind of stuck mike untill I can understand whats the carrier unit is suppose to do in tune mode when the send switch is turned on.wheather or not this is a problem I am not sure.
> >
> > barry vk4baz
> >
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> > --- On Fri, 6/26/09, w5rkl <w5rkl@> wrote:
> >
> >
> > From: w5rkl <w5rkl@>
> > Subject: [TS-520_820_530_830] Re: problems alc on ts520s
> > To: TS-520_820_530_830@yahoogroups.com
> > Date: Friday, June 26, 2009, 2:16 PM
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> >
> > Hello Barry,
> >
> > Have you checked the CAR UNIT's alignment yet? It's possible
> > the CWT signal is off frequency enough to prevent the CAR signal
> > from passing through the IF UNIT filters which results in very little,
> > if any, mixing of the CAR signal and the VFO signal in the IF UNIT's
> > Q2 mixer. If this occurs, there will be no "TIF" signal to mix
> > on the RF UNIT with the band selected heterodyne oscillator
> > resulting in no operating frequency applied to the driver and
> > ultimately, no RF drive to the final amplifier.
> >
> > Mike W5RKL
> >
> > --- In TS-520_820_530_ 830@yahoogroups. com, "vk4baz" <dellthorp@ ..> wrote:
> > >

> > >
> > > (footnote to the question below)
> > >
> > > ,I decided to get off my behind and do the hard yards and look myself ,The way I understand it is on tune a carrier voltage is injected through the ring modulator into the if filter right up to the driver tube on the RF board ,what I did was check the voltage before and after Q1 before it enter the 12by7a voltage before on tp2 -4.3 idle send switch on 2.5volts as per diagram after Q1 on TP1 voltage idle 14.9v send switch up 14.4v the diagram says 3.3 but it looks like 13.3v can anybody correct this ,if the voltage is 3.3 then could Q1 be causing the output problems what do you think
> > >
> > > Barry vk4baz
> > >
> > >
> > > --- In TS-520_820_530_ 830@yahoogroups. com, "vk4baz" <dellthorp@> wrote:
> > > >
> > > >
> > > > Hello to everyone;
> > > >
> > > > Well I finally checked all resistors on the 520s HV board which were well out also the rectifier board the 470k resistor were reading a bit high 600k to 3.3mo replaced those the finals resistors ok,put everything back together hoping everything is going to be good but still no ALC,what I didn't check before when asked was checking output power set to ip /cw no output power,my bottom lip started to quiver ,a little voice in my head said the fellas on this site will put you in the right direction ,
> > > > So what would be the next step to look for I am determined to get this right myself
> > > >
> > > > barry vk4baz
> > > >
> > > >
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> > > >
> > > > > Barry,
> > > > >
> > > > > You're very welcome, anytime. I'm sure once you replace R5 and R6 your
> > > > > 520 will work just fine. Of course that's assuming there is nothing
> > > > > else wrong.
> > > > >
> > > > >
> > > > > Mike W5RKL
> > > > >
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> > > > >
> > > > > --- In TS-520_820_530_ 830@yahoogroups. com, "vk4baz" <dellthorp@> wrote:
> > > > > >
> > > > > >
> > > > > > Mike,
> > > > > >
> > > > > > I checked my high voltage board on the 520s measured the resistance on R5 and R6 R5 was 55k well yea,but I fell overbackwards R6 was and I am gobsmacked 11.90 mega ohms

now I feel I am getting somewhere thanks to you mike ,all I gotta do now is order the 1/2 watters I will keep you posted to see how I get on
> > > > > >
> > > > > > Barry,
> > > > > >
> > > > > >
> > > > > >
> > > > > > --- In TS-520_820_530_ 830@yahoogroups. com, "w5rkl" <w5rkl@> wrote:
> > > > > > >
> > > > > > > Hello Barry,
> > > > > > >
> > > > > > > I assume your statement of no ALC indication is in TUNE mode.
> > > > > > > Since ALC is not used or indicated on the meter in CW mode, tuning
> > > > > > > the 520 in CW mode requires using the IP meter setting. Place
> > > > > > > the MODE switch in CW, flip the SEND switch UP and adjust the
> > > > > > > DRIVE control for a peak indication on the meter. If a CW key
> > > > > > > is plugged into the rear CW socket, pull that plug before flipping
> > > > > > > the SEND switch UP. If you are able to tune the 520 in CW mode for
> > > > > > > full output then I recommend the following:
> > > > > > >
> > > > > > > Check R5 and R6 on the HV UNIT. If these resistors are bad, way
> > > > > > > out of tolerance, the screen voltage in TUNE mode will be much lower
> > > > > > > than it normally is in TUNE mode. This leads to very low or no ALC
> > > > > > > indication on the meter in TUNE mode which results in the inability
> > > > > > > to accurately tune the 520. R5 and R6 are 56K 1/2 watt resistor,
> > > > > > > color coded Green Blue Orange. Replace them if they are out of
> > > > > > > tolerance and check TUNE mode again.
> > > > > > >
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> > > > > > > Mike W5RKL
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> > > > > > >
> > > > > > > --- In TS-520_820_530_ 830@yahoogroups. com, "vk4baz" <dellthorp@> wrote:
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> > > > > > > > So basicly what this points to is that the finals could be sus ,I think its more than that the tubes are new driver is new and I am not getting output so what would be a good starting point to look for bar completely replace the if unit and the rf board havn't got a clue at this moment
> > > > > > > >
> > > > > > > >
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> > > > > > > > -- In TS-520_820_530_ 830@yahoogroups. com, "w5rkl" <w5rkl@> wrote:
> > > > > > > > >
> > > > > > > > > Hello Barry,
> > > > > > > > >
> > > > > > > > > ALC is a transmitter ONLY control voltage and is only produced
> > > > > > > > > when grid current flows in the final tubes.
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> > > > > > > > > When the transmitter' s driving signal causes the final tube
> > > > > > > > > grids to become positive, a current flows between the final tube

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> > > > > > > > > as the RF driving signal. The ALC voltage is then fed back to
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> > > > > > > > > a reduction in the IF amplifier's gain which ultimately results
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> > > > > > > > > just like a receiver's AGC voltage does, controls the gain of the
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> > > > > > > > >
> > > > > > > > > If the level of ALC voltage fed back to the IF amplifier is equal
> > > > > > > > > to or less than the operating bias of the IF amplifier, no gain
> > > > > > > > > reduction in the IF amplifier occurs. Gain reduction in the IF
> > > > > > > > > amplifier ONLY occurs if the ALC voltage exceeds the operating bias
> > > > > > > > > of the IF amplifier and not until then.
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> > > > > > > > > When the final tube grids become positive, gird current flows, and
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> > > > > > > > > this occurs, the final amplifier is no longer operating in a linear
> > > > > > > > > state and the output signal becomes distorted. ALC is designed to
> > > > > > > > > lower the gain of an earlier stage in order to allow the final
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> > > > > > > > > The bottom line is, the lower the ALC indication the cleaner your
> > > > > > > > > signal will be.
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> > > > > > > > > ALC is NOT used in CW because the transmitter' s output level is
> > > > > > > > > "manually" controlled by the CAR control. The CAR control is used
> > > > > > > > > in both TUNE and CW modes but has absolutely no control what so
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> > > > > > > > >
> > > > > > > > > ALC works like AGC does in a receiver, except it is produced
> > > > > > > > > ONLY in the transmitter, never in the receiver.
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> > > > > > > > > Mike W5RKL
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> > > > > > > > > barry
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21610. Re: [TS-520_820_530_830] TS-520 Concerns

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-27 12:51:58 UTC
From: martin
Topic: 21607 Message: 21610

Hi John. What mode were you transmitting in? You should not go over about 100 watts output in CW mode (or don't go over 225 ma plate current(ip)). If you use the radio for PSK, RTTY, or other such modes, you should reduce power to about 25 watts, certainly no more than 45 to 50 watts. The fan is pretty quiet, and runs all the time. If its not running, you need to get that fixed. The smoke you smelled was probably some resisters on the bottom of the PA board. These resisters act like fuses, to protect the more expensive parts of the radio. See Ken s web site
http://www.k4eaa.com/index.html
for more info on this. These resisters will need to be replaced. Ken sells the resisters.

If by finalized, you mean neutralized, you DO need to neutralize the tubes. Another group member has already advised you on this issue, and there is info on Ken's web site about this too.

TTYL

john stuart wrote:
> I had a problem recently with my TS-520. While transmitting on 10-meters, the radio suddenly went dead. The meter pegged full-bore, and I could smell smoke and hear a crackling sound. The tubes were very hot, so after about an hour, I tried again, and it worked ok. I suspect the radio got overheated. I was transmitting quite a bit over 100 watts. Also, the fan seems not to work very well. I don't feel any air being moved.
> A few weeks ago, I replaced the tubes. I talked to a tech at Kenwood. He told me what tubes to get from RF Parts. He also told me that the these tubes did not need to be finalized. Does that sound right to u?
> Well anyways, could u please point me in the right direction with the over-heating problem? Do I need a new fan?. Should I back off the output? Finalize the tubes after all?
> Any advice would be greatly appreciated.
> Thanks, John Stuart KD5RDY
> BTW..This group ROCKS!
>
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>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to: www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at http://www.defectivebydesign.org/what_is_drm"
Q. What's the difference between Batman and Bill Gates?

A. When Batman fought the Penguin, he won.

21611. Re: problems alc on ts520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-27 14:52:10 UTC
From: w5rkl
Topic: 21430 Message: 21611

Hello Barry,

It appears you may be misunderstanding how the 520's transmit signal processing works.

First, the CAR UNIT provides the carrier signal. I'll use CW mode in my discussion.

In TUNE or CW modes, the 3.395Mhz CAR UNIT crystal is selected by the MODE switch. The output of the CAR UNIT is then fed to the GENERATOR board at the "CAR" terminal where it is applied to Q2 and ultimately to the balance modulator (D1 thru D4). The CAR control controls a DC voltage that is applied to the Balance Modulator. If the CAR control is set to minimum, the balance modulator is in its "Balanced" state resulting in "zero" RF output. If the CAR control is advanced (increased), a DC voltage is applied to the balance modulator through the GENERATOR UNIT's "BM" terminal causing an "Unbalanced" condition to occur in the balance modulator. The level of unbalance in the balance modulator is based on the position of the CAR control and determines the "level" of CAR UNIT signal that is available at the balance modulator's transformer, T1. The CAR signal flows through T1 to buffer amplifier Q1 where it is then applied to the GENERATOR UNIT's "GEN" terminal.

The CAR signal that appears at the GENERATOR UNIT's "GEN" terminal, is then fed to the IF UNIT's "GEN" terminal where it is applied to transformer T1 on the IF UNIT. The CAR signal is then fed to the crystal filters, which ever one is selected. The signal flows through the crystal filter and appears at the input to Q1. The output of Q1 on the IF UNIT is fed to Q2, the first transmitter mixer. The CAR signal is then mixed with the VFO signal, in Q2, producing an 8.3 to 8.8Mhz "TIF" signal.

The VFO signal varies from 5.000Mhz (top of ALL bands) to 5.500Mhz (bottom of ALL bands). If the VFO dial is set to "0", bottom of the band, the VFO's output will be "5.500Mhz". The CAR signal fed to Q2, in CW or TUNE mode, will be "3.395Mhz". Mixing the 5.500Mhz VFO signal with the 3.395Mhz CAR signal produces a "sum" frequency of "8.895Mhz" (3.395 + 5.500 = 8.895) which is now the "TIF" frequency. This signal is then applied to T3 on the IF UNIT. Transformer T3 has a "limited" range of frequencies that can pass through it. The range is between 8.395Mhz and 8.895Mhz. Any other frequencies are "rejected" by T3 and not allowed to pass. Since the mixing of the 5.500Mhz and 3.395Mhz signals produce a "sum" frequency of 8.895Mhz, the 8.895Mhz signal is "allowed" to pass through T3 and appear on the IF UNIT's "TIF" terminal. The VFO and CAR signals

are NOT within the frequency range of T3 so they are "rejected" and not allowed to pass through T3.

The "TIF" signal from the IF UNIT is then fed to the RF UNIT and appears on the RF UNIT's "TIF" terminal. The RF UNIT's "TIF" signal is then fed to RF UNIT's transformer T1 which is then applied to the second transmit mixer Q1. At the same time, the local heterodyne oscillator, Q6 and Q7 on the RF UNIT, feeds the band switch selected oscillator signal to the input of Q1 as well.

Lets say the band switch is set to 3.5Mhz. The RF UNIT's local heterodyne oscillator will produce an RF signal of 12.395Mhz that is fed to Q1, along with the 8.895Mhz "TIF" signal. These two signals "mix" producing the desired "operating" frequency of 3.500Mhz. The mixing process of these 2 signals produces a "SUM" and a "DIFFERENCE" frequency. The "SUM" frequency is 8.895Mhz + 12.395Mhz which equals 21.290Mhz. This is "NOT" the frequency we want. The "DIFFERENCE" frequency is 8.895Mhz - 12.395Mhz which equals "3.500Mhz" which "IS" the frequency we want.

The "DIFFERENCE" frequency resulting from mixing in Q1's output is then applied to the driver tube's input tank circuit, L2. L2 is selected by the band switch and is the tuned network for the driver tube's input. L2 is tuned to 3.5Mhz and allows the 3.5Mhz signal to be applied to the driver tube. The driver tube amplifies the 3.5Mhz signal which appears on the driver tube's plate. The output of the driver tube is then fed to coil driver tube's tank coil L2, again, selected by the band switch. The amplified 3.5Mhz signal is then applied to the RF UNIT's "DRV" terminal where it is fed to the FINAL UNIT's "DRV" terminal. The FINAL UNIT amplifies the signal and feeds it to the PI NETWORK and ultimately to the antenna.

That is how the transmit signal process occurs from start to finish. Understanding how this work is important in order to follow the flow of the signal in transmit. The same process occurs in sideband, USB or LSB, except a different crystal on the CAR UNIT is selected by the MODE switch.

You should also understand that until the balance modulator is "unbalanced", there will be zero RF output from the GENERATOR UNIT!

In CW, the CAR control unbalanced the balance modulator by apply a DC voltage. This voltage varies based on the CAR control setting.

In SSB (USB or LSB), the MIC gain control unbalances the balance modulator by varying the "audio" signal from the speech amplifier's, output, Q5 on the GENERATOR UNIT.

Mike W5RKL

21612. Re: TS-520 Concerns

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-27 17:00:22 UTC
From: w5rkl
Topic: 21607 Message: 21612

Hello John,

The "smell" and "crackling" that occured was caused by the final tube's "cathode" resistor, R3 and R4 in the 520 and R2 and R3 in the 520S and 520SE over heating due to excessive levels of IP current. The final tubes were overheating also due to excessive IP current flowing through the tubes.

The fan may be dirty and need cleaning and lubricating.

I recommend replacing both cathode resistor with 10 ohm 1 watt resistors. Do NOT increase the wattage of the resistors! Replace them with 1 watt 10 ohm resistors!

I also agree with the previous response, lower the IP current. In CW this is accomplished by the CAR control. In sideband, the MIC gain controls the IP current.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "john stuart" <loopcat@...> wrote:
>
> I had a problem recently with my TS-520. While transmitting on 10-meters, the radio suddenly went dead. The meter pegged full-bore, and I could smell smoke and hear a crackling sound. The tubes were very hot, so after about an hour, I tried again, and it worked ok. I suspect the radio got overheated. I was transmitting quite a bit over 100 watts. Also, the fan seems not to work very well. I don't feel any air being moved.
> A few weeks ago, I replaced the tubes. I talked to a tech at Kenwood. He told me what tubes to get from RF Parts. He also told me that the these tubes did not need to be finalized. Does that sound right to u?
> Well anyways, could u please point me in the right direction with the over-heating problem? Do I need a new fan?. Should I back off the output? Finalize the tubes after all?
> Any advice would be greatly appreciated.
> Thanks, John Stuart KD5RDY
> BTW..This group ROCKS!
>

21613. TS-520S and HV

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-28 07:35:29 UTC
From: ivokenwood
Topic: 21613 Message: 21613

Hello to everyone,

A few weeks ago I have bought my "new" TS-520S. Everything works fine it seems, except for one thing. I am tuning my rig according to Owners manual and another sources inside this group. But HV at the end of tuning cycle is above 800V (about 950V) It is something wrong with it? I tryied modified all steps, but result is the same all the time.
Thanks for any help.

Ivo, OK2SHI

21614. Re: [TS-520_820_530_830] TS-520S and HV

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-28 13:40:45 UTC
From: Daniel TOESCA
Topic: 21613 Message: 21614

This is normal : in receive you are measuring the HV without any load, not even the resting current, because the PA tubes are biased beyond cut-off. In transmit, the PA tubes draw around 225 mA of current in CW single tone full output in 50 ohm. So the drop in the indicated voltage. Let it alone, there will be no harm. 73's - Daniel, ON5PY

2009/6/28, ivokenwood <ivo@...>:
>
>
>
> Hello to everyone,
>
> A few weeks ago I have bought my "new" TS-520S. Everything works fine it
> seems, except for one thing. I am tuning my rig according to Owners manual
> and another sources inside this group. But HV at the end of tuning cycle is
> above 800V (about 950V) It is something wrong with it? I tryied modified all
> steps, but result is the same all the time.
> Thanks for any help.
>
> Ivo, OK2SHI
>
>
>

[Non-text portions of this message have been removed]

21615. Re: TS-520S and HV

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-28 16:01:12 UTC
From: ivokenwood
Topic: 21613 Message: 21615

Thanks a lot Daniel. I was already worried that the tubes, or something else is congested.

Ivo, OK2SHI

--- In TS-520_820_530_830@yahoogroups.com, Daniel TOESCA <ON5PY1967@...> wrote:
>
> This is normal : in receive you are measuring the HV without any load, not
> even the resting current, because the PA tubes are biased beyond cut-off.
> In transmit, the PA tubes draw around 225 mA of current in CW single tone
> full output in 50 ohm. So the drop in the indicated voltage. Let it alone,
> there will be no harm. 73's - Daniel, ON5PY
>
> 2009/6/28, ivokenwood <ivo@...>:
> >
> >
> >
> > Hello to everyone,
> >
> > A few weeks ago I have bought my "new" TS-520S. Everything works fine it
> > seems, except for one thing. I am tuning my rig according to Owners manual
> > and another sources inside this group. But HV at the end of tuning cycle is
> > above 800V (about 950V) It is something wrong with it? I tryied modified all
> > steps, but result is the same all the time.
> > Thanks for any help.
> >
> > Ivo, OK2SHI
> >
> >
> >
>
>
> [Non-text portions of this message have been removed]
>

21616. MC60A microphone

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-28 11:53:13 UTC
From: Neil McGrath
Topic: 21616 Message: 21616

Does anyone use the TS820s with a Kenwood MC60A microphone? I find that I need to switch the mic preamp on and then set the gain to around 90% of full travel for a reasonable modulation level at a comfortable speaking distance (with the mic switched to high impedance). Without the preamp I need to speak loud and close to the mic with full gain to get the same amount of modulation. Is this a typical seting for this particular mic?

With the preamp switched on, the amplifier circuit is constantly powered resulting in fairly regular battery changes. Is there a way to power the mic fron the rig or switch the preamp power via the PTT?

Neil
G7AQK

21617. Re: [TS-520_820_530_830] MC60A microphone

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-28 16:22:29 UTC
From: n6wk@n6wk.com
Topic: 21616 Message: 21617

Neil,
I use a MC-60 with my 830S and with my 820S.
It works great without having the Pre-Amp on and the Mic control is only set at around the 9 O'Clock position on both radios.

73,
Gordon
N6WK

Neil McGrath wrote:
>
>
> Does anyone use the TS820s with a Kenwood MC60A microphone? I find
> that I need to switch the mic preamp on and then set the gain to
> around 90% of full travel for a reasonable modulation level at a
> comfortable speaking distance (with the mic switched to high
> impedance). Without the preamp I need to speak loud and close to the
> mic with full gain to get the same amount of modulation. Is this a
> typical seting for this particular mic?
>
> With the preamp switched on, the amplifier circuit is constantly
> powered resulting in fairly regular battery changes. Is there a way to
> power the mic fron the rig or switch the preamp power via the PTT?
>
> Neil
> G7AQK
>
>

21618. DG5 Issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-28 22:42:05 UTC
From: Kerry
Topic: 21618 Message: 21618

I broke out the TS-520 last night to do a little field day work after I got home. This is the first time I have had this radio on the air other than just receiving. When using it for a receiver I didn't have the DG-5 hooked up. Last night once she warmed up I noticed an interment issue with the DG-5. While tuning around the 40m band it would go from 7.199 to 7.300 and then stay in the 7.3xx range all the way to 7.400 where it would jump to 7.500. Now it didn't do this every time I scanned the band but it was pretty regular. Any ideas on what would cause this?

Kerry
KE5OFO - Weatherford OK.

21619. T-599 Problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-29 01:34:55 UTC
From: Kurt Cathcart
Topic: 21619 Message: 21619

Over the course of the last monthe, my t-599 has been developing an issue. It started intermittant at first but now it's constant and won't go away. It seem that I can tune up the radio just fine. When I key the mic the radio starts to transmit but I can't get any RF out of it. If the meter is set to IP I see the correct bias current. With the meter set to RF I see nothing. When it was intermittant, this problem would come and go with no predictability. Any suggestions?

-Kurt
kr2c

[Non-text portions of this message have been removed]

21620. Re: problems alc on ts520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-29 02:09:39 UTC
From: vk4baz
Topic: 21430 Message: 21620

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>

Hello Mike,

Well after digesting your theory and following the circuit diagram I have a good understanding now which is a bit differcult if you are not sure,it pays to have a scope without it I think I would of packed up the 520s and put it in the corner or worse still payed someone to fix it,

Anyway mike I found the problem It eventually led me to pulling the front of the 520s and pulling aapart the mode switch I must add I don't want to do that again ,as I pulled the layers off I checked for any broken wires found none I carefully looked at each contactor for wear , but what I saw was where the 9 volts supply enters the switch the lug or contact was bent 90* And I am still wondering how the hell did that get like that so I bent it back down hopefully it would not break ,I flexed it so it would contact better then soldered a dob of solder on the back in case of any hair line cracks,I cleaned the
rl1 and cleaned the mode switch as you advised with
crc and a light touch with the toothbrush,the mode switch is silky smooth now ,After I did all this I put it all back together and left it till the next day as I had had enough and was not sure if it would work,anyway I was looking at it put the scope lead on looking for something else had the switch on tune saw a carrier I though shit where did that come from ,well the rest is history,And and as the little poem says YESTERDAY IS HISTORY TOMORROW IS MYSTERY TODAY IS THE PRESENT THATS WHY ITS CALLED A GIFT certainly was for me cheers mike and keep up the good work

Barry vk4baz

> Hello Barry,
>
> It appears you may be misunderstanding how the 520's transmit signal
> processing works.
>
> First, the CAR UNIT provides the carrier signal. I'll use CW mode
> in my discussion.
>
> In TUNE or CW modes, the 3.395Mhz CAR UNIT crystal is selected by
> the MODE switch. The output of the CAR UNIT is then fed to the
> GENERATOR board at the "CAR" terminal where it is applied to Q2
> and ultimately to the balance modulator (D1 thru D4). The CAR control
> controls a DC voltage that is applied to the Balance Modulator. If the
> CAR control is set to minimum, the balance modulator is in its
> "Balanced" state resulting in "zero" RF output. If the CAR control
> is advanced (increased), a DC voltage is applied to the balance
> modulator through the GENERATOR UNIT's "BM" terminal causing an
> "Unbalanced" condition to occur in the balance modulator. The

> level of unbalance in the balance modulator is based on the position
> of the CAR control and determines the "level" of CAR UNIT signal that
> is available at the balance modulator's transformer, T1. The
> CAR signal flows through T1 to buffer amplifier Q1 where it is then
> applied to the GENERATOR UNIT's "GEN" terminal.
>
> The CAR signal that appears at the GENERATOR UNIT's "GEN" terminal,
> is then fed to the IF UNIT's "GEN" terminal where it is applied to
> transformer T1 on the IF UNIT. The CAR signal is then fed to the
> crystal filters, which ever one is selected. The signal flows
> through the crystal filter and appears at the input to Q1. The
> output of Q1 on the IF UNIT is fed to Q2, the first transmitter
> mixer. The CAR signal is then mixed with the VFO signal, in Q2,
> producing an 8.3 to 8.8Mhz "TIF" signal.
>
> The VFO signal varies from 5.000Mhz (top of ALL bands) to 5.500Mhz
> (bottom of ALL bands). If the VFO dial is set to "0", bottom of
> the band, the VFO's output will be "5.500Mhz". The CAR signal
> fed to Q2, in CW or TUNE mode, will be "3.395Mhz". Mixing the 5.500Mhz
> VFO signal with the 3.395Mhz CAR signal produces a "sum" frequency
> of "8.895Mhz" (3.395 + 5.500 = 8.895) which is now the "TIF"
> frequency. This signal is then applied to T3 on the IF UNIT.
> Transformer T3 has a "limited" range of frequencies that can pass
> through it. The range is between 8.395Mhz and 8.895Mhz. Any other
> frequencies are "rejected" by T3 and not allowed to pass. Since the
> mixing of the 5.500Mhz and 3.395Mhz signals produce a "sum" frequency
> of 8.895Mhz, the 8.895Mhz signal is "allowed" to pass through T3
> and appear on the IF UNIT's "TIF" terminal. The VFO and CAR signals
> are NOT within the frequency range of T3 so they are "rejected" and
> not allowed to pass through T3.
>
> The "TIF" signal from the IF UNIT is then fed to the RF UNIT and
> appears on the RF UNIT's "TIF" terminal. The RF UNIT's "TIF" signal
> is then fed to RF UNIT's transformer T1 which is then applied to
> the second transmit mixer Q1. At the same time, the local
> heterodyne oscillator, Q6 and Q7 on the RF UNIT, feeds the band
> switch selected oscillator signal to the input of Q1 as well.
>
> Lets say the band switch is set to 3.5Mhz. The RF UNIT's local
> heterodyne oscillator will produce an RF signal of 12.395Mhz that
> is fed to Q1, along with the 8.895Mhz "TIF" signal. These two signals
> "mix" producing the desired "operating" frequency of 3.500Mhz. The
> mixing process of these 2 signals produces a "SUM" and a "DIFFERENCE"
> frequency. The "SUM" frequency is 8.895Mhz + 12.395Mhz which
> equals 21.290Mhz. This is "NOT" the frequency we want. The
> "DIFFERENCE" frequency is 8.895Mhz - 12.395Mhz which equals "3.500Mhz"
> which "IS" the frequency we want.
>
> The "DIFFERENCE" frequency resulting from mixing in Q1's output is
> then applied to the driver tube's input tank circuit, L2. L2 is

> selected by the band switch and is the tuned network for the driver
> tube's input. L2 is tuned to 3.5Mhz and allows the 3.5Mhz signal to
> be applied to the driver tube. The driver tube amplifies the 3.5Mhz
> signal which appears on the driver tube's plate. The output of the
> driver tube is then fed to coil driver tube's tank coil L2, again,
> selected by the band switch. The amplified 3.5Mhz signal is then
> applied to the RF UNIT's "DRV" terminal where it is fed to the
> FINAL UNIT's "DRV" terminal. The FINAL UNIT amplifies the signal
> and feeds it to the PI NETWORK and ultimately to the antenna.
>
> That is how the transmit signal process occurs from start to finish.
> Understanding how this work is important in order to follow the
> flow of the signal in transmit. The same process occurs in sideband,
> USB or LSB, except a different crystal on the CAR UNIT is selected
> by the MODE switch.
>
> You should also understand that until the balance modulator is
> "unbalanced", there will be zero RF output from the GENERATOR UNIT!
>
> In CW, the CAR control unbalanced the balance modulator by apply
> a DC voltage. This voltage varies based on the CAR control setting.
>
> In SSB (USB or LSB), the MIC gain control unbalances the balance
> modulator by varying the "audio" signal from the speech amplifier's,
> output, Q5 on the GENERATOR UNIT.
>
> Mike W5RKL
>

21621. Re: problems alc on ts520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-29 11:51:37 UTC
From: w5rkl
Topic: 21430 Message: 21621

Congratulations Barry. Glad you found the problem. Enjoy the
520.

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
>
> Hello Mike,
>
> Well after digesting your theory and following the circuit diagram I have a good understanding now which is a bit differcult if you are not sure,it pays to have a scope without it I think I would of packed up the 520s and put it in the corner or worse still payed someone to fix it,
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> Anyway mike I found the problem It eventually led me to pulling the front of the 520s and pulling aapart the mode switch I must add I don't want to do that again ,as I pulled the layers off I checked for any broken wires found none I carefully looked at each contactor for wear , but what I saw was where the 9 volts supply enters the switch the lug or contact was bent 90* And I am still wondering how the hell did that get like that so I bent it back down hopefully it would not break ,I flexed it so it would contact better then soldered a dob of solder on the back in case of any hair line cracks,I cleaned the
> rl1 and cleaned the mode switch as you advised with
> crc and a light touch with the toothbrush,the mode switch is silky smooth now ,After I did all this I put it all back together and left it till the next day as I had had enough and was not sure if it would work,anyway I was looking at it put the scope lead on looking for something else had the switch on tune saw a carrier I though shit where did that come from ,well the rest is history,And and as the little poem says YESTERDAY IS HISTORY TOMORROW IS MYSTERY TODAY IS THE PRESENT THATS WHY ITS CALLED A GIFT certainly was for me cheers mike and keep up the good work
>
> Barry vk4baz
>
>
>
> > Hello Barry,
> >
> > It appears you may be misunderstanding how the 520's transmit signal
> > processing works.
> >
> > First, the CAR UNIT provides the carrier signal. I'll use CW mode
> > in my discussion.

> >
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> > the MODE switch. The output of the CAR UNIT is then fed to the
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> > transformer T1 on the IF UNIT. The CAR signal is then fed to the
> > crystal filters, which ever one is selected. The signal flows
> > through the crystal filter and appears at the input to Q1. The
> > output of Q1 on the IF UNIT is fed to Q2, the first transmitter
> > mixer. The CAR signal is then mixed with the VFO signal, in Q2,
> > producing an 8.3 to 8.8Mhz "TIF" signal.
> >
> > The VFO signal varies from 5.000Mhz (top of ALL bands) to 5.500Mhz
> > (bottom of ALL bands). If the VFO dial is set to "0", bottom of
> > the band, the VFO's output will be "5.500Mhz". The CAR signal
> > fed to Q2, in CW or TUNE mode, will be "3.395Mhz". Mixing the 5.500Mhz
> > VFO signal with the 3.395Mhz CAR signal produces a "sum" frequency
> > of "8.895Mhz" (3.395 + 5.500 = 8.895) which is now the "TIF"
> > frequency. This signal is then applied to T3 on the IF UNIT.
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> > heterodyne oscillator, Q6 and Q7 on the RF UNIT, feeds the band
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> >
> > Lets say the band switch is set to 3.5Mhz. The RF UNIT's local

> > heterodyne oscillator will produce an RF signal of 12.395Mhz that
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> > mixing process of these 2 signals produces a "SUM" and a "DIFFERENCE"
> > frequency. The "SUM" frequency is 8.895Mhz + 12.395Mhz which
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> > "DIFFERENCE" frequency is 8.895Mhz - 12.395Mhz which equals "3.500Mhz"
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> > tube's input. L2 is tuned to 3.5Mhz and allows the 3.5Mhz signal to
> > be applied to the driver tube. The driver tube amplifies the 3.5Mhz
> > signal which appears on the driver tube's plate. The output of the
> > driver tube is then fed to coil driver tube's tank coil L2, again,
> > selected by the band switch. The amplified 3.5Mhz signal is then
> > applied to the RF UNIT's "DRV" terminal where it is fed to the
> > FINAL UNIT's "DRV" terminal. The FINAL UNIT amplifies the signal
> > and feeds it to the PI NETWORK and ultimately to the antenna.
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> > That is how the transmit signal process occurs from start to finish.
> > Understanding how this work is important in order to follow the
> > flow of the signal in transmit. The same process occurs in sideband,
> > USB or LSB, except a different crystal on the CAR UNIT is selected
> > by the MODE switch.
> >
> > You should also understand that until the balance modulator is
> > "unbalanced", there will be zero RF output from the GENERATOR UNIT!
> >
> > In CW, the CAR control unbalanced the balance modulator by apply
> > a DC voltage. This voltage varies based on the CAR control setting.
> >
> > In SSB (USB or LSB), the MIC gain control unbalances the balance
> > modulator by varying the "audio" signal from the speech amplifier's,
> > output, Q5 on the GENERATOR UNIT.
> >
> > Mike W5RKL
> >
>

21622. Re: T-599 Problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-29 12:16:45 UTC
From: w5rkl
Topic: 21619 Message: 21622

Hello Kurt,

From your description it sounds like dirty switch contacts.
Try cleaning all the rotary switch contacts, including the meter
switch.

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Kurt Cathcart" <kurt@...> wrote:
>
> Over the course of the last monthe, my t-599 has been developing an issue. It started intermittant at first but now it's constant and won't go away. It seem that I can tune up the radio just fine. When I key the mic the radio starts to transmit but I can't get any RF out of it. If the meter is set to IP I see the correct bias current. With the meter set to RF I see nothing. When it was intermittant, this problem would come and go with no predictability. Any suggestions?
>
> -Kurt
> kr2c
>
>
>
>
> [Non-text portions of this message have been removed]
>

21623. Re: DG5 Issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-29 12:47:37 UTC
From: w5rkl
Topic: 21618 Message: 21623

Hello Kerry,

Sounds like the VFO variable capacitor shaft to capacitor frame connection is dirty/corroded and needs cleaning.

To clean the VFO shaft to frame connection, remove the top cover and look at the right side of the VFO enclosure. You should see a small metal plate held to the VFO enclosure with 2 screws. Remove one screw and swing the plate so you can access the variable capacitor shaft to fram "fork" connection. Give that connection a shot of contact cleaner then rotate the VFO throughout its travel a few times. Using canned air, remove excessive contact cleaner along with the dirt/corrosion.

You also might clean all of the rotary switch contacts, band switch, function switch, etc with contact cleaner. Again, use canned air to remove contact cleaner and dirt/corrosion. This step will require removing both top and bottom covers.

Once these steps are completed, power up the 520 and check for VFO stability while tuning. If all is well, install both top and bottom covers.

Before doing any of these steps, turn the 520 OFF and remove the power plug from the wall outlet. Wait 10 minutes for the power supply filter capacitors to bleed down to zero.

Use just enough contact cleaner to do the job. Do not soak the VFO fork connection or any of the switch wafers. A little cleaner goes a long way.

Once you have completed these steps, wait 3 to 5 minutes before applying power. Contact cleaner is flammable and it only takes a small spark to ignite it. I always recommend using canned air after cleaning switches etc with contact cleaner. Walmart sells a large can of canned air which is what I use.

Mike W5RKL

-- In TS-520_820_530_830@yahoogroups.com, "Kerry" <ke5ofo@...> wrote:
>
> I broke out the TS-520 last night to do a little field day work after I got home. This is the first time I have had this radio on the air other than just receiving. When using it for a receiver I didn't have the DG-5 hooked up. Last night once she warmed up I noticed an interment issue with the DG-5. While tuning around the 40m band it would go from 7.199 to 7.300 and then stay in the 7.3xx range all the way to 7.400 where it would jump to 7.500. Now it didn't do this every time I scanned the band but it was pretty regular. Any ideas on

what would cause this?
>
> Kerry
> KE5OFO - Weatherford OK.
>

21624. RE: [TS-520_820_530_830] T-599 Problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-29 13:15:33 UTC
From: Louis A. Bellock
Topic: 21619 Message: 21624

Hello Kurt,

I have a T-599D set of twins and had exactly the same issue with the XMTR. The problem was with the band switch contacts; nothing that a little tuner cleaner couldn't fix.

Before you proceed, I caution you about the high voltage in this chassis. Keep an eye on all High Voltage warning labels and cautions in the manual. These voltages are LETHAL! With the rig out of the case and off, spray the band switch. Gently move the switch between the individual band positions a few times from end to end. Do NOT use a lot of force and do NOT sweep fast. Then turn the rig on and carefully tune it up on LOW power. Repeat this procedure until the tuning action is smooth and non-intermittent. Slowly increase the power until smooth action is found up to about 30 Watts. At this point, you can be confident it is corrected. Reassemble the rig.

By the way, while your there, spray all of the front panel switches. Lastly, check bulbs and any thing else that might need attention while the rig is dismantled.

Good luck, Lou N2JPR

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Kurt Cathcart
Sent: Sunday, June 28, 2009 9:35 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] T-599 Problem

Over the course of the last monthe, my t-599 has been developing an issue. It started intermittant at first but now it's constant and won't go away. It seem that I can tune up the radio just fine. When I key the mic the radio starts to transmit but I can't get any RF out of it. If the meter is set to IP I see the correct bias current. With the meter set to RF I see nothing. When it was intermittant, this problem would come and go with no predictability. Any suggestions?

-Kurt
kr2c

[Non-text portions of this message have been removed]

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Database version: 5.12700
http://www.pctools.com/spyware-doctor-antivirus/
<http://www.pctools.com/en/spyware-doctor-antivirus/>

E-mail message checked by Spyware Doctor (6.0.0.386)
Database version: 5.12700
http://www.pctools.com/en/spyware-doctor-antivirus/

[Non-text portions of this message have been removed]

21625. Re: [TS-520_820_530_830] T-599 Problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-29 13:24:14 UTC
From: Kurt Cathcart
Topic: 21619 Message: 21625

I think you're right. When the radio was more intermittant it seemed that I could move the band switch on the receiver (VFO unit) and it would all start working. Now it doesn't seem to make a difference. I might have to do a better job cleaning that switch or replace it.

-Kurt
kr2c

----- Original Message -----
From: Louis A. Bellock
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, June 29, 2009 9:15 AM
Subject: RE: [TS-520_820_530_830] T-599 Problem

Hello Kurt,

I have a T-599D set of twins and had exactly the same issue with the XMTR. The problem was with the band switch contacts; nothing that a little tuner cleaner couldn't fix.

Before you proceed, I caution you about the high voltage in this chassis. Keep an eye on all High Voltage warning labels and cautions in the manual. These voltages are LETHAL! With the rig out of the case and off, spray the band switch. Gently move the switch between the individual band positions a few times from end to end. Do NOT use a lot of force and do NOT sweep fast. Then turn the rig on and carefully tune it up on LOW power. Repeat this procedure until the tuning action is smooth and non-intermittent. Slowly increase the power until smooth action is found up to about 30 Watts. At this point, you can be confident it is corrected. Reassemble the rig.

By the way, while your there, spray all of the front panel switches. Lastly, check bulbs and any thing else that might need attention while the rig is dismantled.

Good luck, Lou N2JPR

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Kurt Cathcart
Sent: Sunday, June 28, 2009 9:35 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] T-599 Problem

Over the course of the last monthe, my t-599 has been developing an issue. It started intermittant at first but now it's constant and won't go away. It seem that I can tune up the radio just fine. When I key the mic the radio starts to transmit but I can't get any RF out of it. If the meter is set to

IP I see the correct bias current. With the meter set to RF I see nothing. When it was intermittant, this problem would come and go with no predictability. Any suggestions?

-Kurt
kr2c

[Non-text portions of this message have been removed]

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Database version: 5.12700
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[Non-text portions of this message have been removed]

21626. Re: DG5 Issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-29 21:24:18 UTC
From: Kerry
Topic: 21618 Message: 21626

Thanks Mike, I will give that a try. I know I need to crack it open and clean the band switch anyway. Other than that issue it seemed to be doing ok. I really like this radio and can't wait to be able to use it on a more regular basis.

Kerry
KE5OFO

21627. Re: MC60A microphone

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-29 22:10:20 UTC
From: Neil McGrath
Topic: 21616 Message: 21627

Thanks for the feedback Gordon. I will try another mic to see how it compares before I delve into the IF board.

Neil
G7AQK

--- In TS-520_820_530_830@yahoogroups.com, n6wk@... wrote:
>
> Neil,
> I use a MC-60 with my 830S and with my 820S.
> It works great without having the Pre-Amp on and the Mic control is only
> set at around the 9 O'Clock position on both radios.
>
> 73,
> Gordon
> N6WK
>
>
>
> Neil McGrath wrote:
> >
> >
> > > Does anyone use the TS820s with a Kenwood MC60A microphone? I find
> > > that I need to switch the mic preamp on and then set the gain to
> > > around 90% of full travel for a reasonable modulation level at a
> > > comfortable speaking distance (with the mic switched to high
> > > impedance). Without the preamp I need to speak loud and close to the
> > > mic with full gain to get the same amount of modulation. Is this a
> > > typical seting for this particular mic?
> > >
> > > With the preamp switched on, the amplifier circuit is constantly
> > > powered resulting in fairly regular battery changes. Is there a way to
> > > power the mic fron the rig or switch the preamp power via the PTT?
> > >
> > > Neil
> > > G7AQK
> > >
> > >
>

21628. Re: MC60A microphone

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-30 01:38:40 UTC
From: w5rkl
Topic: 21616 Message: 21628

Have you checked the impedance switch? The MC-60A is a dual
impedance microphone, 50K and 500 ohm, depending on the impedance
switch position.

Check the slide switch on the microphone, not the stand, to ensure
it is in the high impedance position (50K) when using the MC-60A
with the 820.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Neil McGrath" <g7aqk.uk@...> wrote:
>
> Thanks for the feedback Gordon. I will try another mic to see how it compares before I
delve into the IF board.
>
> Neil
> G7AQK
>
> --- In TS-520_820_530_830@yahoogroups.com, n6wk@ wrote:
> >
> > Neil,
> > I use a MC-60 with my 830S and with my 820S.
> > It works great without having the Pre-Amp on and the Mic control is only
> > set at around the 9 O'Clock position on both radios.
> >
> > 73,
> > Gordon
> > N6WK
> >
> >
> >
> > Neil McGrath wrote:
> > >
> > >
> > > Does anyone use the TS820s with a Kenwood MC60A microphone? I find
> > > that I need to switch the mic preamp on and then set the gain to
> > > around 90% of full travel for a reasonable modulation level at a
> > > comfortable speaking distance (with the mic switched to high
> > > impedance). Without the preamp I need to speak loud and close to the
> > > mic with full gain to get the same amount of modulation. Is this a
> > > typical seting for this particular mic?
> > >
> > > With the preamp switched on, the amplifier circuit is constantly
> > > powered resulting in fairly regular battery changes. Is there a way to
> > > power the mic fron the rig or switch the preamp power via the PTT?
> > >

> > > Neil
> > > G7AQK
> > >
> > >
> >
>

21629. TS-820S: no drive on 40, 15 and 10 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-30 20:43:59 UTC
From: Bill Crowell
Topic: 21629 Message: 21629

My TS-820S has plenty of drive on 80 and 20 meters, but none on 40, 15 and 10. The tank circuit is getting its B+ in all bandswitch positions. Any suggestions as to what might be causing this?

21630. Re: TS-820S: no drive on 40, 15 and 10 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-06-30 23:31:31 UTC
From: w5rkl
Topic: 21629 Message: 21630

Hello Bill,

Sounds like dirty interconnecting pins between the VCO
and PD UNIT PC boards located "inside" the PLL assembly. If these
pins get dirty or corroded, they affect the connections between
the PD and VCO UNIT PC boards which affect both transmit AND
receive. The PLL assembly is common to both transmit AND receive.

You didn't say so but I'm going to assume that the 820 not only
does NOT transmit on 40, 15, and 10 but it most likely does NOT
receive on 40, 15, and 10 either.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Bill Crowell" <retroguybilly@...> wrote:
>
> My TS-820S has plenty of drive on 80 and 20 meters, but none on 40, 15 and 10. The tank circuit is getting its B+ in all bandswitch positions. Any suggestions as to what might be causing this?
>

21631. Low sound volume to TS-520S external speaker?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-01 00:56:58 UTC
From: bostonkevino
Topic: 21631 Message: 21631

Hi,

My recently aquired 520S works well on internal speaker, but when plugged into a Kenwood SP-31 a also aquired the volume drops dramatically. I have to max out (10) the AF Gain knob to get the same sound volume level as AF Gain (2) on internal speaker.

The contacts look clean, wiring is not frayed or cracked into the jack connector on the rig.

I have plugged another radio (a modern Yaesu) into this SP-31 using the same plug/cord, the volume is much louder (as normally expected) with excellent sound quality - the filters work nicely on the SP-31.

Thoughts? advice and thoughts appreciated.

Kevin O'Sullivan
KB1SMG

21632. Re: Low sound volume to TS-520S external speaker?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-01 01:41:05 UTC
From: w5rkl
Topic: 21631 Message: 21632

It possible the external speaker socket, on the rear of the 520,
is dirty and needs cleaning.

Open the top cover then plug the external speaker plug into the
520's ext speaker socket. Give the socket a shot of contact cleaner,
rotate the external speaker plug a few times then remove and insert
the external speaker plug a few times. Use canned air to remove
excess contact cleaner and wait a few minutes then power up the
520 and check the audio out to the SP-31.

I ran into a similar issue with the CW socket on my 820. After
cleaning the CW socket on the rear with contact cleaner, the problem
was eliminated.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "bostonkevino" <bostonkevino@...> wrote:
>
> Hi,
>
> My recently aquired 520S works well on internal speaker, but when plugged into a Kenwood SP-31 a also aquired the volume drops dramatically. I have to max out (10) the AF Gain knob to get the same sound volume level as AF Gain (2) on internal speaker.
>
> The contacts look clean, wiring is not frayed or cracked into the jack connector on the rig.
>
> I have plugged another radio (a modern Yaesu) into this SP-31 using the same plug/cord, the volume is much louder (as normally expected) with excellent sound quality - the filters work nicely on the SP-31.
>
>
> Thoughts? advice and thoughts appreciated.
>
> Kevin O'Sullivan
> KB1SMG
>

21633. Re: Low sound volume to TS-520S external speaker?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-01 01:46:20 UTC
From: w5rkl
Topic: 21631 Message: 21633

If you do not have the SP-31 manual, you can download it free
at the following website in pdf format.

http://www.radioamateur.eu/schemi/ACC_audio/Kenwood_SP-31_user.pdf

Also, make sure the external speaker plug that is plugged
into the 520's rear ext speaker socket, has the "tip" wired to
SP-31's J2 "+" terminal and the "sleeve" is wired to J2's "-"
terminal.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "bostonkevino" <bostonkevino@...> wrote:
>
> Hi,
>
> My recently aquired 520S works well on internal speaker, but when plugged into a Kenwood SP-31 a also aquired the volume drops dramatically. I have to max out (10) the AF Gain knob to get the same sound volume level as AF Gain (2) on internal speaker.
>
> The contacts look clean, wiring is not frayed or cracked into the jack connector on the rig.
>
> I have plugged another radio (a modern Yaesu) into this SP-31 using the same plug/cord, the volume is much louder (as normally expected) with excellent sound quality - the filters work nicely on the SP-31.
>
>
> Thoughts? advice and thoughts appreciated.
>
> Kevin O'Sullivan
> KB1SMG
>

21634. Re: TS-820S: no drive on 40, 15 and 10 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-01 01:10:24 UTC
From: Joe McGerald
Topic: 21629 Message: 21634

Actually I have a similar problem on a 530s that I just obtained. The transceiver works fine on all bands but 12 & 10M. No drive on them. I can't tell if there is any reception since those bands have been about dead since I acquired the transceiver. I can hear normal level background noise on them however.

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello Bill,
>
> Sounds like dirty interconnecting pins between the VCO
> and PD UNIT PC boards located "inside" the PLL assembly. If these
> pins get dirty or corroded, they affect the connections between
> the PD and VCO UNIT PC boards which affect both transmit AND
> receive. The PLL assembly is common to both transmit AND receive.
>
> You didn't say so but I'm going to assume that the 820 not only
> does NOT transmit on 40, 15, and 10 but it most likely does NOT
> receive on 40, 15, and 10 either.
>
> Mike W5RKL
>
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>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Bill Crowell" <retroguybilly@> wrote:
> >
> > My TS-820S has plenty of drive on 80 and 20 meters, but none on 40, 15 and 10. The tank circuit is getting its B+ in all bandswitch positions. Any suggestions as to what might be causing this?
> >
>

21635. Re: TS-820S: no drive on 40, 15 and 10 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-01 02:43:02 UTC
From: w5rkl
Topic: 21629 Message: 21635

Can you hear the 530's "CAL" signal on 12 and 10 meters? If you
can then the receiver's working on 12 and 10 meters. You should be
able to peak the CAL signal with the DRIVE control.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Joe McGerald" <astro_crazy@...> wrote:
>
> Actually I have a similar problem on a 530s that I just obtained. The transceiver works fine on all bands but 12 & 10M. No drive on them. I can't tell if there is any reception since those bands have been about dead since I acquired the transceiver. I can hear normal level background noise on them however.
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Hello Bill,
> >
> > Sounds like dirty interconnecting pins between the VCO
> > and PD UNIT PC boards located "inside" the PLL assembly. If these
> > pins get dirty or corroded, they affect the connections between
> > the PD and VCO UNIT PC boards which affect both transmit AND
> > receive. The PLL assembly is common to both transmit AND receive.
> >
> > You didn't say so but I'm going to assume that the 820 not only
> > does NOT transmit on 40, 15, and 10 but it most likely does NOT
> > receive on 40, 15, and 10 either.
> >
> > Mike W5RKL
> >
> >
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> > --- In TS-520_820_530_830@yahoogroups.com, "Bill Crowell" <retroguybilly@> wrote:
> > >
> > > My TS-820S has plenty of drive on 80 and 20 meters, but none on 40, 15 and 10. The tank circuit is getting its B+ in all bandswitch positions. Any suggestions as to what might be causing this?
> > >
> > >
> >
>

21636. Re: [TS-520_820_530_830] Re: TS-820S: no drive on 40, 15 and 10 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-01 02:56:08 UTC
From: STEVE SCOGGINS
Topic: 21629 Message: 21636

Joe

No drive on some bands is usually due to dirty bandswitch wafer contacts.

Use deoxit to clean.
Apply the deoxit with a needle applicator.
Let it soax for 10-15 mins then wipe the wafer surface clean with a Q-Tip.

73 Steve

--- On Tue, 6/30/09, Joe McGerald <astro_crazy@...m> wrote:

From: Joe McGerald <astro_crazy@...>
Subject: [TS-520_820_530_830] Re: TS-820S: no drive on 40, 15 and 10 meters
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, June 30, 2009, 6:10 PM

Actually I have a similar problem on a 530s that I just obtained. The transceiver works fine on all bands but 12 & 10M. No drive on them. I can't tell if there is any reception since those bands have been about dead since I acquired the transceiver. I can hear normal level background noise on them however.

--- In TS-520_820_530_ 830@yahoogroups. com, "w5rkl" <w5rkl@...> wrote:
>
> Hello Bill,
>
> Sounds like dirty interconnecting pins between the VCO
> and PD UNIT PC boards located "inside" the PLL assembly. If these
> pins get dirty or corroded, they affect the connections between
> the PD and VCO UNIT PC boards which affect both transmit AND
> receive. The PLL assembly is common to both transmit AND receive.
>
> You didn't say so but I'm going to assume that the 820 not only
> does NOT transmit on 40, 15, and 10 but it most likely does NOT
> receive on 40, 15, and 10 either.
>
> Mike W5RKL
>
>
>
>
>
>
> --- In TS-520_820_530_ 830@yahoogroups. com, "Bill Crowell" <retroguybilly@ > wrote:
> >

> > My TS-820S has plenty of drive on 80 and 20 meters, but none on 40, 15 and 10. The tank circuit is getting its B+ in all bandswitch positions. Any suggestions as to what might be causing this?
> >
>

[Non-text portions of this message have been removed]

21637. Re: TS-820S: no drive on 40, 15 and 10 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-01 03:28:41 UTC
From: w5rkl
Topic: 21629 Message: 21637

If you have access to a frequency counter, you can check the
PLL's "VCO OUT" terminal for the following 12 and 10 meter
VCO frequencies. Each frequency indicated below varies as the
VFO is tuned/rotated.

12 meter VCO OUT frequency

33.33Mhz to 33.83Mhz (24.5)

10 meters VCO OUT frequency

36.83Mhz to 37.33Mhz (28.0)
37.33Mhz to 37.83Mhz (28.5)
37.83Mhz to 38.33Mhz (29)
38.33Mhz to 38.83Mhz (29.5)

The number is parens is the band switch setting.

If any one of these frequencies are missing then the receiver AND
transmitter will not work that specific band switch setting.
You "may" hear low volume "hissing" but that's all you will hear.
You will not hear any incoming signals or the CAL (Marker) signal.

Since the PLL UNIT is common to both transmit and receive, if one
of the VCO signals is missing, say the 28.5 VCO signal,
37.33Mhz to 37.83Mhz, then there will be no transmit or receive on
28.5 band switch setting but the other bands will work fine.

The band switch determines which VCO output frequency is made
available to the receiver and transmitter mixers. These signals
MUST be present at the transmit and receive mixer otherwise both
transmit and receive will fail.

You may also want to clean the PLL UNIT's plugs and pins then
check all mounting screws to ensure they are tight.

Also refer to the 530's operating manual to ensure that the WARC
band changes have been made to enable the WARC bands.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Joe McGerald" <astro_crazy@...> wrote:
>
> Actually I have a similar problem on a 530s that I just obtained. The transceiver works fine on all bands but 12 & 10M. No drive on them. I can't tell if there is any reception since those bands have been about dead since I acquired the transceiver. I can hear normal level background noise on them however.
>

> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Hello Bill,
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> > Sounds like dirty interconnecting pins between the VCO
> > and PD UNIT PC boards located "inside" the PLL assembly. If these
> > pins get dirty or corroded, they affect the connections between
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> > Mike W5RKL
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> > --- In TS-520_820_530_830@yahoogroups.com, "Bill Crowell" <retroguybilly@> wrote:
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> > > My TS-820S has plenty of drive on 80 and 20 meters, but none on 40, 15 and 10. The tank circuit is getting its B+ in all bandswitch positions. Any suggestions as to what might be causing this?
> > >
> >
>

21638. WARC on R-820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-01 09:59:29 UTC
From: on5py
Topic: 21638 Message: 21638

Hi, I have seen in a eham.net review that " QST ran a WARC-band modification article for this rig and its companion TS-820S in the early 80's. The magazine also featured an article on adapting the 'twins' for full QSK; I recommend the sidetone mod if one uses the TS-820S/R-820 combo on CW. "

By any chace or luck, does somebody have a copy of that QST article ?

Thanks for looking & 73's

Daniel, ON5PY

21639. Re: [TS-520_820_530_830] 830 IF Shift issue

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-01 10:43:07 UTC
From: carboyhat@juno.com
Topic: 21591 Message: 21639

Hi Steve. With the IF shift centered, when you switch between LSB and
USB, is the background atmospheric noise the
same pitch? If not, the carrier freq. adjustments need to be adjusted.
There are some openings on the bottom of the rig
which will allow adjustment of the trimmer capacitors. A decal
identifies where they are. On my TS-830S, I leave the
IF shift centered and adjust the LSB trimmer first by listening to some
chatter on the 75 meter band at night, where there
is any number of conversations, for the most natural sounding audio.
Then I tune to a band that uses USB and do the same
thing. I then tune to a portion of any band that is just noise and flip
between USB and LSB and compare the pitch of the
sounds and fine tune each trimmer to get them as close as possible and
consistent with what I perceive to be "normal"
SSB audio. I know this is a subjective way to do this because of
differences in what is normal sounding ssb audio.
It will get you close though. This will affect the quality of your
transmit audio too. You can make it more bassy or
trebley (sp?). The more scientific way to do this uses instruments to
measure frequencies.

73 de Bob, AA4AI

On Wed, 24 Jun 2009 12:03:10 -0000 "onefez" <onefez@...> writes:
> Hi hi hi,
> Sort of recently I got this 830S and noticed that the IF Shift on
> LSB was always fully CW for best audio, and USB was always fully CCW
> for "centering" the best audio. The other nite was on 20 m. and
> listening when I dropped to 40 m. I neglected to switch to LSB and
> spin the IF Shift and then lo and behold, I heard the station almost
> perfectly. The thing is when I did put it on LSB and then twisted
> the IF Shift fully CW it was fine also... So, looking at the
> adjustments (in service manual) I don't really see how this can be
> true. Also don't see how come the middle of the pot isn't doing what
> I think it should be doing, allowing up and down shifting of the IF.
> This is an old baby, serial # starts with a 1xxxxx. Is there
> something I am missing here, or is this all out of adjustment and
> needs some serious attention. I haven't done anything to it, except
> operate and enjoy it much more than my last rig. Any insight
> appreciated,
> Steve
> N9FEZ /ae
>
>

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http://thirdpartyoffers.juno.com/TGL2141/fc/BLSrjpTQs9pgzR4NJFRa2Beo9tuTSWsRrSBWWzm4IAbYFxwxH8M01R0F0QY/

21640. Re: WARC on R-820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-01 13:42:51 UTC
From: Bill Crowell
Topic: 21638 Message: 21640

Daniel, why don't you email me at: retroguybilly@...

21641. Re: MC60A microphone

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-01 18:48:09 UTC
From: Neil McGrath
Topic: 21616 Message: 21641

I have tried the switch in both positions and normally use it in the 50k position. I did substitute an old CB desk microphone which certainly gives the audio the punch it needs but the audio quality is nothing like the MC60A. I will check the microphone wiring next to see if there are any problems in that department.

Neil
G7AQK

--- In TS-520_820_530_830@...m, "w5rkl" <w5rkl@...> wrote:
>
> Have you checked the impedance switch? The MC-60A is a dual
> impedance microphone, 50K and 500 ohm, depending on the impedance
> switch position.
>
> Check the slide switch on the microphone, not the stand, to ensure
> it is in the high impedance position (50K) when using the MC-60A
> with the 820.
>
> Mike W5RKL
>
>

21642. Re: Low sound volume to TS-520S external speaker?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-02 14:46:31 UTC
From: scott10k
Topic: 21631 Message: 21642

Adding to what Mike said, I had the same problem with my SP-520 plugging into the external speaker plug on my TS-520S. It turns out the speaker plug was dirty/corroded and a shot of DeOxit like Mike suggested cured the problem.
83s, Scott, N6CIC

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> It possible the external speaker socket, on the rear of the 520,
> is dirty and needs cleaning.
>
> Open the top cover then plug the external speaker plug into the
> 520's ext speaker socket. Give the socket a shot of contact cleaner,
> rotate the external speaker plug a few times then remove and insert
> the external speaker plug a few times. Use canned air to remove
> excess contact cleaner and wait a few minutes then power up the
> 520 and check the audio out to the SP-31.
>
> I ran into a similar issue with the CW socket on my 820. After
> cleaning the CW socket on the rear with contact cleaner, the problem
> was eliminated.
>
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "bostonkevino" <bostonkevino@> wrote:
> >
> > Hi,
> >
> > My recently aquired 520S works well on internal speaker, but when plugged into a Kenwood SP-31 a also aquired the volume drops dramatically. I have to max out (10) the AF Gain knob to get the same sound volume level as AF Gain (2) on internal speaker.
> >
> > The contacts look clean, wiring is not frayed or cracked into the jack connector on the rig.
> >
> > I have plugged another radio (a modern Yaesu) into this SP-31 using the same plug/cord, the volume is much louder (as normally expected) with excellent sound quality - the filters work nicely on the SP-31.
> >
> >
> > Thoughts? advice and thoughts appreciated.
> >
> > Kevin O'Sullivan
> > KB1SMG
> >

>

21643. (no subject)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-02 12:22:50 UTC
From: Nelson
Topic: 21643 Message: 21643

Thanks Bob,
I was not aware that the setting affected transmit also, very interesting. I need to stare at the service manual a little further in that case. I saw the freq. adjustments early in the service manual adjustments and it looks like I need to obtain a freq counter for doing this as this radio has been real dead on as far as the display is concerned. While this isn't demanding, I thought it peculiar that I needed those knob twists to line it up each time I went from band to band. Thanks for the info and 73,
N9FEZ Steve

[Non-text portions of this message have been removed]

21644. TS-520/520S/520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-02 20:23:33 UTC
From: Steven Read
Topic: 21644 Message: 21644

Hello,

I just bought my first HF rig -- a 520 and was wondering what the difference between the 520, 520S and 520SE. I have been to eHam and a few other sites but did not find any details.

Steven Read - ab9ol
Dublin, IN

[Non-text portions of this message have been removed]

21645. Re: [TS-520_820_530_830] TS-520/520S/520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-02 21:12:10 UTC
From: Dave ve3wej
Topic: 21644 Message: 21645

no display (except with dg5), built in display, and warc added (i beleive)

check google

----- Original Message -----
From: "Steven Read" <ab9ol@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, July 02, 2009 4:23 PM
Subject: [TS-520_820_530_830] TS-520/520S/520SE

> Hello,
>
> I just bought my first HF rig -- a 520 and was wondering what the
> difference between the 520, 520S and 520SE. I have been to eHam and a few
> other sites but did not find any details.
>
> Steven Read - ab9ol
> Dublin, IN
>
>
> [Non-text portions of this message have been removed]
>
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>
> Yahoo! Groups Links
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>

21646. Re: [TS-520_820_530_830] TS-520/520S/520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-02 21:24:16 UTC
From: Charlie , W5COV
Topic: 21644 Message: 21646

There is a difference in the mobile supply options , with the different suffixes . Also the straight TS 520 , does not cover 160 meters .

Charlie , W5COV

[Non-text portions of this message have been removed]

21647. RE: [TS-520_820_530_830] TS-520/520S/520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-02 22:40:16 UTC
From: BRENT BAUM
Topic: 21644 Message: 21647

The 520 S is an upgrade to the 520 and has modifications to the power supply and adds 160m along with DG5 connections and some minor features. The controls are a little different such as the load and tune control being upside down compared to the 520. There is also a small cosmetic difference, the indicator panel with the 3 lights in it is gray instead of white.

The 520 SE is the "economy" model (Kenwood didn't want to pay for all the hand wiring). It only has AC power and no transverter plugs or switch. Inside it is exactly the same as the S model, except it's missing the DC converter and the wiring associated with the transverter output and DC operation. Its also missing the heater switch.

73, K7MEI, Brent

To: TS-520_820_530_830@yahoogroups.com
From: ab9ol@...
Date: Thu, 2 Jul 2009 13:23:33 -0700
Subject: [TS-520_820_530_830] TS-520/520S/520SE

Hello,

I just bought my first HF rig -- a 520 and was wondering what the difference between the 520, 520S and 520SE. I have been to eHam and a few other sites but did not find any details.

Steven Read - ab9ol
Dublin, IN

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

21648. Re: TS-520/520S/520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-02 22:59:04 UTC
From: w5rkl
Topic: 21644 Message: 21648

Actually, the 520 series never had a built in digital display.

The 520 operated 80 thru 10. RIT, 4 fixed crystal control sockets controlled by the front panel selector switch. 200 watt PEP input on sideband, 160 watts DC input on CW. Operated from 120/240VAC or from the 13.6VDC supply mounted on the rear panel.

The TS-520S had the same basic features as the 520 except 160 meters was added. Fixed channel selector was moved as an outer control along with the PLATE control. Meter switch moved to between the meter and the VFO. JJY was moved to the band switch and the original JJY push button became a 20db attenuator button. Same 200 watts PEP input on sideband, 160 watt DC input on CW.

The TS-520SE changed the heater switch to as a NARROW/WIDE filter selector switch. Operation on 13.6VDC through the optional DC converter that mounted on the rear panel.

ALL 520 models had RIT and operated from built in 120/240VAC switchable power supplies.

All would operate from a DC supply through the 13.6VDC converter. Standard on the 520 but optional on the 520S and 520SE. Plates were provided on the rear panel that covered the wiring access hole where the converter is connected to the 520S and 520SE.

All had external VFO and remote control connections available on the rear panel.

All used the 12BY7 driver tube and the Japanese S2001 in the final amplifier which are the equivalent to the 6146B.

CW filters were optional on all 520 models and required simple wiring changes when installing the CW filters.

Optional remote VFO for all 520 models was the VFO-520.

The 520 nor the 820 series would operate on the WARC bands. The WARC bands were not added until the 530 and 830.

The "AUX" band switch setting was for "receive only". The "AUX" band switch setting was added in the 520S and 520SE models.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@...> wrote:
>
> no display (except with dg5), built in display, and warc added (i beleive)

>
>
> check google
>
>
> ----- Original Message -----
> From: "Steven Read" <ab9ol@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Thursday, July 02, 2009 4:23 PM
> Subject: [TS-520_820_530_830] TS-520/520S/520SE
>
>
> > Hello,
> >
> > I just bought my first HF rig -- a 520 and was wondering what the
> > difference between the 520, 520S and 520SE. I have been to eHam and a few
> > other sites but did not find any details.
> >
> > Steven Read - ab9ol
> > Dublin, IN
> >
> >
> > [Non-text portions of this message have been removed]
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> >
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21649. TS-520/520S/520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-03 03:07:37 UTC
From: Steven Read
Topic: 21644 Message: 21649

Thanks to all for the information. I have the service manuals for a couple of the different models and will start looking for the differences that have been mentioned. I drive a Cavalier so mobile is not an option and 160 meters does not work that well where I live because there is a power line that has some leakage which really makes a mess of things on that band (and sometimes causes problems on 80 and 40 as well.)

Steven Read - ab9ol
Dublin, IN

[Non-text portions of this message have been removed]

21650. Ts-830 Display Issue

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-04 19:18:12 UTC
From: tim_luvs_dawn
Topic: 21650 Message: 21650

I have a mint ts-830 everything works fine and this radio has never been modified nor tampered with,However in the 24.5 Mhz position the radio display reads 26.5...But transmits and receives perfect on the correct band 12 meter..So it's not the pll board and it must be in the display unit,I have cleaned all connections but still no luck...Any ideas appreciated..N4DXX

21651. Re: Ts-830 Display Issue

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-04 21:00:33 UTC
From: w5rkl
Topic: 21650 Message: 21651

It appears there may be a failure in the TC-5070P counter chip. Of course, that is assuming everything else is working properly.

However, I wouldn't rule out cleaning the band switch wafers with contact cleaner along with plugs and pins connecting to the counter assembly. Sometimes, simply pulling plugs followed by reinserting the plugs back into the pins can clear up problems. Can't say for sure this will fix your display problem but, just like cleaning the band switch wafers, it's worth a try.

The correct binary coded decimal value on the TC-5070P counter chip, pins 15, 14, 13, and 12 (DCBA), for 12 meters, should be "1110". See the 830's service manual, page 5 and 6 for details. A digital logic probe can show you what DCBA binary signals are present on pins 15, 14, 13, and 12 of the TC-5070P counter chip.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "tim_luvs_dawn" <htjude@...> wrote:
>
> I have a mint ts-830 everything works fine and this radio has never been modified nor tampered with,However in the 24.5 Mhz position the radio display reads 26.5...But transmits and receives perfect on the correct band 12 meter..So it's not the pll board and it must be in the display unit,I have cleaned all connections but still no luck...Any ideas appreciated..N4DXX
>

21652. Re: [TS-520_820_530_830] Ts-830 Display Issue

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-04 23:30:35 UTC
From: Lou Blasco
Topic: 21650 Message: 21652

Hi Tim,

I had a problem recently with a frequency counter that counted correctly but displayed the wrong value. This might be happening with your set. In my case all the display control was inside the main counter chip and I was convinced the counter would end up in the round filing cabinet. With nothing to lose I re-soldered the pins on the main chip and it's been stable ever since. I'm not sure if the TC-5070 chip is in a socket or not but you might want to re-seat the chip if it's in a socket and take a real good look at the solder connections on the display board.

Good Luck

Lou
VK3ALB

At 05:18 AM 05/07/2009, you wrote:
>I have a mint ts-830 everything works fine and this radio has never
>been modified nor tampered with,However in the 24.5 Mhz position the
>radio display reads 26.5...But transmits and receives perfect on the
>correct band 12 meter..So it's not the pll board and it must be in
>the display unit,I have cleaned all connections but still no
>luck...Any ideas appreciated..N4DXX

21653. New Kenwood Owner

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-04 23:59:49 UTC
From: L Kendall
Topic: 21653 Message: 21653

Hi, Group.

I just got a Kenwood TS 830-S "Gold" with the mic and an external VFO. As this is my first foray into the TS-830-S, am reading the manual this evening before I power it up. Will start with a dummy load and go from there.

It seems to be in great shape. I will be the 3rd owner--that I know of. I love these fine old machines, Kenwood, Collins, etc. I'm eager to see how this Kenwood compares to the K3, as I have heard good things about the TS-830.

Not much useful information in the above, I know.

Just saying "hello" (and before I ask the obvious question I will search the archives--namely, what does the "Gold" part of the model name do for me--anything?)

CUL
Larry Kendall
73 K5END

[Non-text portions of this message have been removed]

21654. Re: [TS-520_820_530_830] New Kenwood Owner

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-05 00:45:46 UTC
From: M. J. Synowiec
Topic: 21653 Message: 21654

Hello Larry,

FB on acquiring the 830S. It is a great old rig & as a fine set of "ears". This group will be of immense help to you as you learn about the rig. Many of the members are quite expert and know how to impart that knowledge in a very gentle way.

As far as the "gold" designation of the rig there is some controversy and no firm consensus of what was included or different about this rig. For the best roundup of info on the hybrids (as well as repair parts and links) try Ken Kemski's website at K4EAA.com. He has some very useful info and adds his bit of flavor to the Gold Question. All-in-all you will be well served to visit is site. The reading is quite fascinating. I've bought parts from him for my 830 and found him to be fair & quick. The 24"X36" schematic he sells is quite a piece of wall-art and is easy on my old eyes as well.

Enjoy the radio and keep us informed as you progress with it.

Vy 73,

Mike K8SYN

--- On Sat, 7/4/09, L Kendall <k5end@...> wrote:

From: L Kendall <k5end@att.net>
Subject: [TS-520_820_530_830] New Kenwood Owner
To: TS-520_820_530_830@yahoogroups.com
Date: Saturday, July 4, 2009, 7:59 PM

Hi, Group.

I just got a Kenwood TS 830-S "Gold" with the mic and an external VFO.

As this is my first foray into the TS-830-S, am reading the manual this

evening before I power it up. Will start with a dummy load and go from

there.

It seems to be in great shape. I will be the 3rd owner--that I know of.

I love these fine old machines, Kenwood, Collins, etc. I'm eager to see

how this Kenwood compares to the K3, as I have heard good things about

the TS-830.

Not much useful information in the above, I know.

Just saying "hello" (and before I ask the obvious question I will search

the archives--namely, what does the "Gold" part of the model name do for

me--anything?)

CUL

Larry Kendall

73 K5END

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

21655. Re: [TS-520_820_530_830] New Kenwood Owner

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-05 00:47:27 UTC
From: Garrett, Russ
Topic: 21653 Message: 21655

The primary difference was the addition of additional cw and ssb filters.

Sent from my BlackBerry Wireless Handheld

Russ Garrett
Bullivant|Houser|Bailey PC
805 Broadway Street, Suite 400
Vancouver, WA 98660-3310
mailto:russ.garrett@...
direct dial: 360.737.3363 - fax: 360.695.8504 http://www.bullivant.com Seattle . Vancouver . Portland . Sacramento . San Francisco . Las Vegas

---

From: TS-520_820_530_830@yahoogroups.com <TS-520_820_530_830@yahoogroups.com>
To: TS-520_820_530_830@yahoogroups.com <TS-520_820_530_830@yahoogroups.com>
Sent: Sat Jul 04 16:59:49 2009
Subject: [TS-520_820_530_830] New Kenwood Owner

Hi, Group.

I just got a Kenwood TS 830-S "Gold" with the mic and an external VFO.
As this is my first foray into the TS-830-S, am reading the manual this
evening before I power it up. Will start with a dummy load and go from
there.

It seems to be in great shape. I will be the 3rd owner--that I know of.
I love these fine old machines, Kenwood, Collins, etc. I'm eager to see
how this Kenwood compares to the K3, as I have heard good things about
the TS-830.

Not much useful information in the above, I know.

Just saying "hello" (and before I ask the obvious question I will search
the archives--namely, what does the "Gold" part of the model name do for
me--anything?)

CUL
Larry Kendall
73 K5END

[Non-text portions of this message have been removed]

mail.bullivant.com made the following annotations

Please be advised that, unless expressly stated otherwise, any U.S. federal tax advice
contained in this e-mail, including attachments, is not intended to be used by any person

for the purpose of avoiding any penalties that may be imposed by the Internal Revenue Service.

[Non-text portions of this message have been removed]

21656. Re: Ts-830 Display Issue

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-05 02:52:09 UTC
From: tim_luvs_dawn
Topic: 21650 Message: 21656

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
>
>
> It appears there may be a failure in the TC-5070P counter chip. Of
> course, that is assuming everything else is working properly.
>
> However, I wouldn't rule out cleaning the band switch wafers with
> contact cleaner along with plugs and pins connecting to the counter
> assembly. Sometimes, simply pulling plugs followed by reinserting
> the plugs back into the pins can clear up problems. Can't say for
> sure this will fix your display problem but, just like cleaning
> the band switch wafers, it's worth a try.
>
> The correct binary coded decimal value on the TC-5070P counter chip,
> pins 15, 14, 13, and 12 (DCBA), for 12 meters, should be "1110". See
> the 830's service manual, page 5 and 6 for details. A digital logic
> probe can show you what DCBA binary signals are present on pins
> 15, 14, 13, and 12 of the TC-5070P counter chip.
>
> Mike W5RKL
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "tim_luvs_dawn" <htjude@> wrote:
> >
> > I have a mint ts-830 everything works fine and this radio has never been modified nor tampered with,However in the 24.5 Mhz position the radio display reads 26.5...But transmits and receives perfect on the correct band 12 meter..So it's not the pll board and it must be in the display unit,I have cleaned all connections but still no luck...Any ideas appreciated..N4DXX
> >
>
Thanks for all the help..Looks like a great group here..I will keep you posted as to what i find..N4DXX

21657. 520S will not transmit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-05 04:08:28 UTC
From: aztrooper@sbcglobal.net
Topic: 21657 Message: 21657

Hi to the group. I am new to this group and am a relatively new ham. I looked for a while to find the best radio that would suit me and after trying to deal with all the menus on a Yaesu FT-897, I decided to look to the older radios. It came down to the Yaesu FT-101E or the the Kenwood TS-520S. I decided on the 520S and found a guy near me with one for sale. It works perfect and I picked up another one that would not transmit. Having a little background in electronics, (avionics tech for 4 years) I started to trouble shoot what the problem was. I found that the transmit relay would not even close using the send switch on the front panel or shorting the key pins on the mic connector. I found that Q8 and D8 on the VOX board were bad and the .01uf cap across the transmit relay coil was shorted. I took out the relay and it ohm tested to the correct value on the relay. I replaced the cap, Q8 and D8. Before turning on the receiver, I put my voltmeter on pin 14 of the VOX board and turned the receiver on. I got 13.8v but almost immediately, R16 that connects to Q8's emitter to pin 14 smoked. Q8 was replaced with a 2N3906 transistor. I checked the configuration on it before soldering it in place. Can anyone help with where I should go next? Thanks. Bob KD0EEZ ps I know, I only have a Tech license but I don't even have an antenna up yet. I'm testing the radio into an MFJ 949E dummy load. Taking my General in August.

21658. Re: [TS-520_820_530_830] 520S will not transmit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-05 08:31:25 UTC
From: Gordon JC Pearce
Topic: 21657 Message: 21658

On Sun, 2009-07-05 at 04:08 +0000, aztrooper@... wrote:
> on the relay. I replaced the cap, Q8 and D8. Before turning on the
> receiver, I put my voltmeter on pin 14 of the VOX board and turned the
> receiver on. I got 13.8v but almost immediately, R16 that connects to
> Q8's emitter to pin 14 smoked. Q8 was replaced with a 2N3906
> transistor. I checked the configuration on it before soldering it in
> place. Can anyone help with where I should go next?

The easy mistake to make is that D8 is the back-EMF diode across the relay coils and is therefore connected "backwards" with the cathode towards the positive supply and anode connected to ground.

With the diode the "right" way round, it will pass all the current instead of the relay coils and magic smoke will be evident.

Gordon 2M0YEQ

21659. Re: Ts-830 Display Issue

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-05 07:25:30 UTC
From: tim_luvs_dawn
Topic: 21650 Message: 21659

--- In TS-520_820_530_830@yahoogroups.com, "tim_luvs_dawn" <htjude@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> >
> >
> > It appears there may be a failure in the TC-5070P counter chip. Of
> > course, that is assuming everything else is working properly.
> >
> > However, I wouldn't rule out cleaning the band switch wafers with
> > contact cleaner along with plugs and pins connecting to the counter
> > assembly. Sometimes, simply pulling plugs followed by reinserting
> > the plugs back into the pins can clear up problems. Can't say for
> > sure this will fix your display problem but, just like cleaning
> > the band switch wafers, it's worth a try.
> >
> > The correct binary coded decimal value on the TC-5070P counter chip,
> > pins 15, 14, 13, and 12 (DCBA), for 12 meters, should be "1110". See
> > the 830's service manual, page 5 and 6 for details. A digital logic
> > probe can show you what DCBA binary signals are present on pins
> > 15, 14, 13, and 12 of the TC-5070P counter chip.
> >
> > Mike W5RKL
> >
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "tim_luvs_dawn" <htjude@> wrote:
> > >
> > > I have a mint ts-830 everything works fine and this radio has never been modified nor tampered with,However in the 24.5 Mhz position the radio display reads 26.5...But transmits and receives perfect on the correct band 12 meter..So it's not the pll board and it must be in the display unit,I have cleaned all connections but still no luck...Any ideas appreciated..N4DXX
> > >
> >
> Thanks for all the help..Looks like a great group here..I will keep you posted as to what i find..N4DXX
>Got it fixed,Not sure what i did,i was just poking arund and looked at the radio and it was working and seems to be stable and reading correctly so i don't have an answer,But thanks for the help..

21660. Ts-830 alignment question RX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-05 14:00:57 UTC
From: tim_luvs_dawn
Topic: 21660 Message: 21660

I notice in the service manual is says on the IF board to adjust
L2 L3 L4 L5 L6 L7 L9 L11 No mention of L12 and i cant even find L12 on the if Board.
Owners manual is different
It says adjust L5 L6 L7 L11 L12 Again i can't find L12..What is correct procedure for adjusting the Rx?Thank's

21661. Re: Ts-830 alignment question RX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-05 16:17:57 UTC
From: w5rkl
Topic: 21660 Message: 21661

Looking at the IF UNIT board with the front of the 830 to your left,
note the location of the AM filter slot. Look to the right of the AM
filter slot and you will find L11. Continue to the right of L11 and
the next transformer is "L12".

L11 is the last IF transformer in the receiver IF strip.

L12 is the balance detector input transformer.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "tim_luvs_dawn" <htjude@...> wrote:
>
> I notice in the service manual is says on the IF board to adjust
> L2 L3 L4 L5 L6 L7 L9 L11 No mention of L12 and i cant even find L12 on the if Board.
> Owners manual is different
> It says adjust L5 L6 L7 L11 L12 Again i can't find L12..What is correct procedure for
adjusting the Rx?Thank's
>

21662. Re: Ts-830 alignment question RX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-05 16:42:16 UTC
From: tim_luvs_dawn
Topic: 21660 Message: 21662

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Looking at the IF UNIT board with the front of the 830 to your left,
> note the location of the AM filter slot. Look to the right of the AM
> filter slot and you will find L11. Continue to the right of L11 and
> the next transformer is "L12".
>
> L11 is the last IF transformer in the receiver IF strip.
>
> L12 is the balance detector input transformer.
>
>
> Mike W5RKL
>
> But do i follow the service manual or the instruction manual?In the instruction manual it says to leave L3 L7 & 9 Alone and the service manual says to adjust them..?
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "tim_luvs_dawn" <htjude@> wrote:
> >
> > I notice in the service manual is says on the IF board to adjust
> > L2 L3 L4 L5 L6 L7 L9 L11 No mention of L12 and i cant even find L12 on the if Board.
> > Owners manual is different
> > It says adjust L5 L6 L7 L11 L12 Again i can't find L12..What is correct procedure for adjusting the Rx?Thank's
> >
>

21663. Re: Ts-830 alignment question RX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-05 16:55:58 UTC
From: tim_luvs_dawn
Topic: 21660 Message: 21663

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Looking at the IF UNIT board with the front of the 830 to your left,
> note the location of the AM filter slot. Look to the right of the AM
> filter slot and you will find L11. Continue to the right of L11 and
> the next transformer is "L12".
>
> L11 is the last IF transformer in the receiver IF strip.
>
> L12 is the balance detector input transformer.
>
>
> Mike W5RKL
>
> Hey mike Mine does not have a slot for am filter and to the right of L11 There is no am filter slot nothing but resistors caps etc...
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "tim_luvs_dawn" <htjude@> wrote:
> >
> > I notice in the service manual is says on the IF board to adjust
> > L2 L3 L4 L5 L6 L7 L9 L11 No mention of L12 and i cant even find L12 on the if Board.
> > Owners manual is different
> > It says adjust L5 L6 L7 L11 L12 Again i can't find L12..What is correct procedure for adjusting the Rx?Thank's
> >
>

21664. Re: 520S will not transmit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-05 17:21:16 UTC
From: w5rkl
Topic: 21657 Message: 21664

I agree with Gordon. "IF" D8 was installed backwards, 2.89 amps of current would flow through R16, Q8, and D8 (13.6 / 4.7 = 2.89). That's the reason R16 instantly overheated and smoked when power was applied to the 520.

I suspect Q8 is toast and possibly D8 as well. A 2N2904 has an absolute maximum collector current rating of 200ma.

For safety sake, I would replace all 3 components, R16, Q8, and D8. Make sure D8 is installed correctly, banded lead to Q8's collector.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce <gordon@...> wrote:
>
> On Sun, 2009-07-05 at 04:08 +0000, aztrooper@... wrote:
> > on the relay. I replaced the cap, Q8 and D8. Before turning on the
> > receiver, I put my voltmeter on pin 14 of the VOX board and turned the
> > receiver on. I got 13.8v but almost immediately, R16 that connects to
> > Q8's emitter to pin 14 smoked. Q8 was replaced with a 2N3906
> > transistor. I checked the configuration on it before soldering it in
> > place. Can anyone help with where I should go next?
>
> The easy mistake to make is that D8 is the back-EMF diode across the
> relay coils and is therefore connected "backwards" with the cathode
> towards the positive supply and anode connected to ground.
>
> With the diode the "right" way round, it will pass all the current
> instead of the relay coils and magic smoke will be evident.
>
> Gordon 2M0YEQ
>

21665. Re: Ts-830 alignment question RX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-05 17:11:25 UTC
From: tim_luvs_dawn
Topic: 21660 Message: 21665

--- In TS-520_820_530_830@yahoogroups.com, "tim_luvs_dawn" <htjude@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Looking at the IF UNIT board with the front of the 830 to your left,
> > note the location of the AM filter slot. Look to the right of the AM
> > filter slot and you will find L11. Continue to the right of L11 and
> > the next transformer is "L12".
> >
> > L11 is the last IF transformer in the receiver IF strip.
> >
> > L12 is the balance detector input transformer.
> >
> >
> > Mike W5RKL
> >
> > Hey mike Mine does not have a slot for am filter and to the right of L11 There is no am filter slot nothing but resistors caps etc...
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "tim_luvs_dawn" <htjude@> wrote:
> > >
> > > I notice in the service manual is says on the IF board to adjust
> > > L2 L3 L4 L5 L6 L7 L9 L11 No mention of L12 and i cant even find L12 on the if Board.
> > > Owners manual is different
> > > It says adjust L5 L6 L7 L11 L12 Again i can't find L12..What is correct procedure for adjusting the Rx?Thank's
> > >
> >
>
Mine is ser no:2010570 Could there have been a change made to the if Board?I am not kidding this one has no place anywhere for an am filter..Cw and stock ssb filter only..Two slots for cw and one slot for stock SSB Filter..

21666. Re: Ts-830 alignment question RX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-05 17:48:51 UTC
From: w5rkl
Topic: 21660 Message: 21666

> Hey mike Mine does not have a slot for am filter and to the right of L11 There is no am filter slot nothing but resistors caps etc...

What is the number of the IF UNIT board in your 830? The 830 service manual I have indicates the IF UNIT has 2 different IF UNIT boards, X48-1290-00 for the 830S(K, W, T, and X) models and X48-1290-61 for the 830S (W) model.

Mike W5RKL

21667. Re: Ts-830 alignment question RX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-05 17:53:34 UTC
From: w5rkl
Topic: 21660 Message: 21667

Correction:

The X48-1290-61 IF UNIT board is for the "TS-830M (W)" model
not TS-830S (W).

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
>
> > Hey mike Mine does not have a slot for am filter and to the right of L11 There is no am filter slot nothing but resistors caps etc...
>
> What is the number of the IF UNIT board in your 830? The 830 service
> manual I have indicates the IF UNIT has 2 different IF UNIT boards,
> X48-1290-00 for the 830S(K, W, T, and X) models and X48-1290-61 for
> the 830S (W) model.
>
>
> Mike W5RKL
>

21668. Re: 520S will not transmit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-05 17:55:31 UTC
From: w5rkl
Topic: 21657 Message: 21668

I "fat fingered" the transistor number. It should be "2N3904" not
"2N2904". Can't seem to type today. Must be the heat...:)

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> I agree with Gordon. "IF" D8 was installed backwards, 2.89 amps of
> current would flow through R16, Q8, and D8 (13.6 / 4.7 = 2.89).
> That's the reason R16 instantly overheated and smoked when power
> was applied to the 520.
>
> I suspect Q8 is toast and possibly D8 as well. A 2N2904 has an
> absolute maximum collector current rating of 200ma.
>
> For safety sake, I would replace all 3 components, R16, Q8, and
> D8. Make sure D8 is installed correctly, banded lead to Q8's
> collector.
>
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce <gordon@> wrote:
> >
> > On Sun, 2009-07-05 at 04:08 +0000, aztrooper@ wrote:
> > > on the relay. I replaced the cap, Q8 and D8. Before turning on the
> > > receiver, I put my voltmeter on pin 14 of the VOX board and turned the
> > > receiver on. I got 13.8v but almost immediately, R16 that connects to
> > > Q8's emitter to pin 14 smoked. Q8 was replaced with a 2N3906
> > > transistor. I checked the configuration on it before soldering it in
> > > place. Can anyone help with where I should go next?
> >
> > The easy mistake to make is that D8 is the back-EMF diode across the
> > relay coils and is therefore connected "backwards" with the cathode
> > towards the positive supply and anode connected to ground.
> >
> > With the diode the "right" way round, it will pass all the current
> > instead of the relay coils and magic smoke will be evident.
> >
> > Gordon 2M0YEQ
> >
>

21669. Re: Ts-830 alignment question RX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-05 18:10:43 UTC
From: tim_luvs_dawn
Topic: 21660 Message: 21669

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
>
> > Hey mike Mine does not have a slot for am filter and to the right of L11 There is no am filter slot nothing but resistors caps etc...
>
> What is the number of the IF UNIT board in your 830? The 830 service
> manual I have indicates the IF UNIT has 2 different IF UNIT boards,
> X48-1290-00 for the 830S(K, W, T, and X) models and X48-1290-61 for
> the 830S (W) model.
>
>
> Mike W5RKL
>
Mine is this one X48-1290-00

21670. Re: [TS-520_820_530_830] Re: 520S will not transmit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-05 18:42:30 UTC
From: Bob Singer
Topic: 21657 Message: 21670

From what I was told, the 2N3906 was the replacement for Q8. It is a PNP transistor. The 2N3904 is a NPN transistor. Am I mistaken on that? Bob

w5rkl wrote:
>
>
>
> I "fat fingered" the transistor number. It should be "2N3904" not
> "2N2904". Can't seem to type today. Must be the heat...:)
>
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "w5rkl" <w5rkl@...> wrote:
> >
> > I agree with Gordon. "IF" D8 was installed backwards, 2.89 amps of
> > current would flow through R16, Q8, and D8 (13.6 / 4.7 = 2.89).
> > That's the reason R16 instantly overheated and smoked when power
> > was applied to the 520.
> >
> > I suspect Q8 is toast and possibly D8 as well. A 2N2904 has an
> > absolute maximum collector current rating of 200ma.
> >
> > For safety sake, I would replace all 3 components, R16, Q8, and
> > D8. Make sure D8 is installed correctly, banded lead to Q8's
> > collector.
> >
> > Mike W5RKL
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, Gordon JC Pearce
> <gordon@> wrote:
> > >
> > > On Sun, 2009-07-05 at 04:08 +0000, aztrooper@ wrote:
> > > > on the relay. I replaced the cap, Q8 and D8. Before turning on the
> > > > receiver, I put my voltmeter on pin 14 of the VOX board and
> turned the
> > > > receiver on. I got 13.8v but almost immediately, R16 that
> connects to
> > > > Q8's emitter to pin 14 smoked. Q8 was replaced with a 2N3906
> > > > transistor. I checked the configuration on it before soldering it in
> > > > place. Can anyone help with where I should go next?
> > >
> > > The easy mistake to make is that D8 is the back-EMF diode across the

> > > relay coils and is therefore connected "backwards" with the cathode
> > > towards the positive supply and anode connected to ground.
> > >
> > > With the diode the "right" way round, it will pass all the current
> > > instead of the relay coils and magic smoke will be evident.
> > >
> > > Gordon 2M0YEQ
> > >
> >
>
>

21671. Re: [TS-520_820_530_830] Re: 520S will not transmit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-05 18:57:51 UTC
From: Bob Singer
Topic: 21657 Message: 21671

One other item. On the 1N60 diodes I bought, there are 2 black bands on one end with the other end being plain but the interior "wire" is red. I put the double banded end side connected to Q8's collector thinking the double band was the cathode end. Was I wrong? Bob

w5rkl wrote:
>
>
> I agree with Gordon. "IF" D8 was installed backwards, 2.89 amps of
> current would flow through R16, Q8, and D8 (13.6 / 4.7 = 2.89).
> That's the reason R16 instantly overheated and smoked when power
> was applied to the 520.
>
> I suspect Q8 is toast and possibly D8 as well. A 2N2904 has an
> absolute maximum collector current rating of 200ma.
>
> For safety sake, I would replace all 3 components, R16, Q8, and
> D8. Make sure D8 is installed correctly, banded lead to Q8's
> collector.
>
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, Gordon JC Pearce
> <gordon@...> wrote:
> >
> > On Sun, 2009-07-05 at 04:08 +0000, aztrooper@... wrote:
> > > on the relay. I replaced the cap, Q8 and D8. Before turning on the
> > > receiver, I put my voltmeter on pin 14 of the VOX board and turned the
> > > receiver on. I got 13.8v but almost immediately, R16 that connects to
> > > Q8's emitter to pin 14 smoked. Q8 was replaced with a 2N3906
> > > transistor. I checked the configuration on it before soldering it in
> > > place. Can anyone help with where I should go next?
> >
> > The easy mistake to make is that D8 is the back-EMF diode across the
> > relay coils and is therefore connected "backwards" with the cathode
> > towards the positive supply and anode connected to ground.
> >
> > With the diode the "right" way round, it will pass all the current
> > instead of the relay coils and magic smoke will be evident.
> >
> > Gordon 2M0YEQ
> >
>
>

21672. TS-520SE: replace CW filter with narrow SSB filter?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-05 19:28:47 UTC
From: Jeff
Topic: 21672 Message: 21672

Is it possible to remove the narrow CW filter from my TS-520SE and substitute a narrow SSB filter, and use the WIDE/NARROW switch to switch between the two during SSB operation? I know, I know...why ruin the radio by removing the CW filter... Honestly, I'm SSB 99.9% of the time, and would like to have the SSB options to help during contests.

Thanks!

73 de Jeff, KF5KWO
Helotes, TX

21673. Re: TS-520 blows fuse!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-05 19:09:06 UTC
From: wp3vv1
Topic: 16517 Message: 21673

--- In TS-520_820_530_830@yahoogroups.com, Jerry Seay <jjseay@...> wrote:
>
> No, I just removed the ones to the DC-Dc converter.
>
> There geranium power transistors have been known to just give up the ghost
> after a long period of time.
>
> Jerry
>
> On Sunday 10 February 2008 07:59:39 am Karl Schwab wrote:
> > Good morning Jerry, and thanks for this post. Yes, my
> > '520 does have the DC-DC converter and I think that I
> > tried it once when I acquired the radio many years
> > ago. Well, I am back at my home QTH and I have the
> > top cover off. I am going to give your tip a try. Do
> > I read your post correctly, you cut all wires for the
> > DC-DC converter at the transformer? I count 9 of
> > them!
> >
> > Probably my 1 hours long QSO with Bill while using the
> > AC power source was just to much for this old radio,
> > hi hi!
> >
> > Thanks again Jerry, de KO8S, Karl
> >
> > --- Jerry Seay <jjseay@...> wrote:
> > > Karl, does your 520 have the DC-DC converter? A few
> > > months ago I had the
> > > exact same thing happen to mine. Turned out the the
> > > one of the Geranium power
> > > transistors shorted to ground. Replacing that
> > > transistor turned out to be
> > > expensive and probably would not ever be used. The
> > > 520 only needs this ckt
> > > when the radio is connected to a 13.8VDC source.
> > > Since I was never going to
> > > take this unit out of the Shack, I clipped the leads
> > > to the DC-DC converter
> > > from the main transformer and that fixed the
> > > problem.
> > >
> > > Jerry KE5PUT
> > >
> > > On Saturday 09 February 2008 12:40:37 pm ktschwab
> > >

> > > wrote:
> > > > I was very surprised this morning when I turned
> > > >
> > > the power switch to ON,
> > > >
> > > > (filament switch off) on my TS-520 when I got
> > > >
> > > about 1/2 second of audio
> > > >
> > > > and all went quiet! I removed the power cord and
> > > >
> > > the 6 amp fuse on the
> > > >
> > > > rear panel was blown wide open, glass blackend! I
> > > >
> > > last used the radio
> > > >
> > > > about a month ago with hours of operation on it at
> > > >
> > > that time. Prior to
> > > >
> > > > this, the radio gets used every week or two when I
> > > >
> > > am up here at the
> > > >
> > > > cottage. I have owned this radio for years and
> > > >
> > > years, and I have never
> > > >
> > > > blown a fuse in it. The only time the cover was
> > > >
> > > off on this radio was
> > > >
> > > > to add the CW filter, everyting else, including
> > > >
> > > the tubes, are
> > > >
> > > > original! So my question to the group is, what
> > > >
> > > should I check first on
> > > >
> > > > my "road" to repair? At this point, installing a
> > > >
> > > new fuse probably
> > > >
> > > > won't help, but I didn't have a spare at this
> > > >
> > > location to give it a
> > > >
> > > > quick try. Thanks guys and 73, de KO8S, Karl

> > >
> > > Yahoo! Groups Links
> >
> > http://groups.yahoo.com/group/TS-520_820_530_830/join
> >
> > > (Yahoo! ID required)
> >
> > mailto:TS-520_820_530_830-fullfeatured@yahoogroups.com
> >

My ts-520 is blowing the fuse and it doesn't have the dc-dc converter. Where should I look??

Thanks
> >
> >
> >
> >
> >
> >
> > _____
> >_____ Looking for last minute shopping deals?
> > Find them fast with Yahoo! Search.
> > http://tools.search.yahoo.com/newsearch/category.php?category=shopping
>

21674. Re: 520S will not transmit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-05 20:49:33 UTC
From: w5rkl
Topic: 21657 Message: 21674

Bob, you are correct, it is a 2N3906. I mistyped it and didn't
correct the error on the second try... Not a good typing day for me!!

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Bob Singer <aztrooper@...> wrote:
>
> From what I was told, the 2N3906 was the replacement for Q8. It is a
> PNP transistor. The 2N3904 is a NPN transistor. Am I mistaken on
> that? Bob
>
> w5rkl wrote:
> >
> >
> >
> > I "fat fingered" the transistor number. It should be "2N3904" not
> > "2N2904". Can't seem to type today. Must be the heat...:)
> >
> > Mike W5RKL
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "w5rkl" <w5rkl@> wrote:
> > >
> > > I agree with Gordon. "IF" D8 was installed backwards, 2.89 amps of
> > > current would flow through R16, Q8, and D8 (13.6 / 4.7 = 2.89).
> > > That's the reason R16 instantly overheated and smoked when power
> > > was applied to the 520.
> > >
> > > I suspect Q8 is toast and possibly D8 as well. A 2N2904 has an
> > > absolute maximum collector current rating of 200ma.
> > >
> > > For safety sake, I would replace all 3 components, R16, Q8, and
> > > D8. Make sure D8 is installed correctly, banded lead to Q8's
> > > collector.
> > >
> > > Mike W5RKL
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, Gordon JC Pearce
> > <gordon@> wrote:
> > > >
> > > > On Sun, 2009-07-05 at 04:08 +0000, aztrooper@ wrote:
> > > > > on the relay. I replaced the cap, Q8 and D8. Before turning on the
> > > > > receiver, I put my voltmeter on pin 14 of the VOX board and
> > turned the

> > > > > receiver on. I got 13.8v but almost immediately, R16 that
> > connects to
> > > > > > Q8's emitter to pin 14 smoked. Q8 was replaced with a 2N3906
> > > > > > transistor. I checked the configuration on it before soldering it in
> > > > > > place. Can anyone help with where I should go next?
> > > > >
> > > > > The easy mistake to make is that D8 is the back-EMF diode across the
> > > > > relay coils and is therefore connected "backwards" with the cathode
> > > > > towards the positive supply and anode connected to ground.
> > > > >
> > > > > With the diode the "right" way round, it will pass all the current
> > > > > instead of the relay coils and magic smoke will be evident.
> > > > >
> > > > > Gordon 2M0YEQ
> > > > >
> > > >
> > >
> > >
>

21675. Re: 520S will not transmit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-05 21:03:07 UTC
From: w5rkl
Topic: 21657 Message: 21675

Bob, that is correct. The banded end connects to Q8's collector.
If that's how you connected the diode then there's something else
wrong.

I recommend tracing the circuit wiring starting at the VOX
UNIT's "RL" terminal. There is a shorted component, wire, or both
somewhere that's causing R16 to smoke.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Bob Singer <aztrooper@...> wrote:
>
> One other item. On the 1N60 diodes I bought, there are 2 black bands on
> one end with the other end being plain but the interior "wire" is red.
> I put the double banded end side connected to Q8's collector thinking
> the double band was the cathode end. Was I wrong? Bob
>
> w5rkl wrote:
> >
> >
> > I agree with Gordon. "IF" D8 was installed backwards, 2.89 amps of
> > current would flow through R16, Q8, and D8 (13.6 / 4.7 = 2.89).
> > That's the reason R16 instantly overheated and smoked when power
> > was applied to the 520.
> >
> > I suspect Q8 is toast and possibly D8 as well. A 2N2904 has an
> > absolute maximum collector current rating of 200ma.
> >
> > For safety sake, I would replace all 3 components, R16, Q8, and
> > D8. Make sure D8 is installed correctly, banded lead to Q8's
> > collector.
> >
> > Mike W5RKL
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, Gordon JC Pearce
> > <gordon@> wrote:
> > >
> > > On Sun, 2009-07-05 at 04:08 +0000, aztrooper@ wrote:
> > > > on the relay. I replaced the cap, Q8 and D8. Before turning on the
> > > > receiver, I put my voltmeter on pin 14 of the VOX board and turned the
> > > > receiver on. I got 13.8v but almost immediately, R16 that connects to
> > > > Q8's emitter to pin 14 smoked. Q8 was replaced with a 2N3906
> > > > transistor. I checked the configuration on it before soldering it in
> > > > place. Can anyone help with where I should go next?
> > >

> > > The easy mistake to make is that D8 is the back-EMF diode across the
> > > relay coils and is therefore connected "backwards" with the cathode
> > > towards the positive supply and anode connected to ground.
> > >
> > > With the diode the "right" way round, it will pass all the current
> > > instead of the relay coils and magic smoke will be evident.
> > >
> > > Gordon 2M0YEQ
> > >
> >
> >
>

21676. Re: WARC on R-820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-05 21:11:56 UTC
From: fred_n8yx
Topic: 21638 Message: 21676

--- In TS-520_820_530_830@yahoogroups.com, "on5py" <ON5PY1967@...> wrote:
>
> Hi, I have seen in a eham.net review that " QST ran a WARC-band modification article for this rig and its companion TS-820S in the early 80's. The magazine also featured an article on adapting the 'twins' for full QSK; I recommend the sidetone mod if one uses the TS-820S/R-820 combo on CW. "
>
> By any chace or luck, does somebody have a copy of that QST article ?
>
> Thanks for looking & 73's
>
> Daniel, ON5PY
>

Daniel,

I've done the conversion on both the R-820 and TS-820S, and am getting ready to do it to another "set". I'll be glad to help you through the procedure or answer any questions that might arise.

Fred, 'YX

21677. Re: [TS-520_820_530_830] Re: TS-520 blows fuse!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-05 21:51:48 UTC
From: Gordon JC Pearce
Topic: 16517 Message: 21677

On Sun, 2009-07-05 at 19:09 +0000, wp3vv1 wrote:

> My ts-520 is blowing the fuse and it doesn't have the dc-dc converter. Where should I look??

Under what set of circumstances does it blow the fuse?
Has it ever worked since you've had it?
Can you think of anything that could have caused it to start blowing fuses?

Gordon 2M0YEQ

21678. Re: TS-520 blows fuse!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-05 22:14:23 UTC
From: wp3vv1
Topic: 16517 Message: 21678

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce <gordon@...> wrote:
>
> On Sun, 2009-07-05 at 19:09 +0000, wp3vv1 wrote:
>
> > My ts-520 is blowing the fuse and it doesn't have the dc-dc converter. Where should I look??
>
> Under what set of circumstances does it blow the fuse?
> Has it ever worked since you've had it?
> Can you think of anything that could have caused it to start blowing
> fuses?
>
> Gordon 2M0YEQ

Thanks Gordon for replying.

It blows at startup. The radio was working nice. I cant' think of anything right now that causes the problem.
>

21679. Re: [TS-520_820_530_830] Re: TS-520 blows fuse!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-05 23:33:10 UTC
From: Dave ve3wej
Topic: 16517 Message: 21679

assuming you mean turning the power switch on, it blows a fuse!!!! sounds like transmormer, but check for wires pinched, are you sure the correct rated fuse is in the holder....

----- Original Message -----
From: "Gordon JC Pearce" <gordon@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, July 05, 2009 5:51 PM
Subject: Re: [TS-520_820_530_830] Re: TS-520 blows fuse!

> On Sun, 2009-07-05 at 19:09 +0000, wp3vv1 wrote:
>
>> My ts-520 is blowing the fuse and it doesn't have the dc-dc converter.
>> Where should I look??
>
> Under what set of circumstances does it blow the fuse?
> Has it ever worked since you've had it?
> Can you think of anything that could have caused it to start blowing
> fuses?
>
> Gordon 2M0YEQ
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

21680. Re: TS-520 blows fuse!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-05 23:42:59 UTC
From: wp3vv1
Topic: 16517 Message: 21680

```
--- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@...> wrote:
>
> assuming you mean turning the power switch on, it blows a fuse!!!! sounds
> like transmormer, but check for wires pinched, are you sure the correct
> rated fuse is in the holder....
>
>
> ----- Original Message -----
> From: "Gordon JC Pearce" <gordon@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Sunday, July 05, 2009 5:51 PM
> Subject: Re: [TS-520_820_530_830] Re: TS-520 blows fuse!
>
>
> > On Sun, 2009-07-05 at 19:09 +0000, wp3vv1 wrote:
> >
>> My ts-520 is blowing the fuse and it doesn't have the dc-dc converter.
>> Where should I look??
> >
> > Under what set of circumstances does it blow the fuse?
> > Has it ever worked since you've had it?
> > Can you think of anything that could have caused it to start blowing
> > fuses?
> >
> > Gordon 2M0YEQ
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
>

The fuse is 6a 250v as the manual said.
```

21681. Re: [TS-520_820_530_830] Re: 520S will not transmit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-06 01:43:56 UTC
From: Bob Singer
Topic: 21657 Message: 21681

Rats. That is how I connected it. Now to look for something else. Bob

w5rkl wrote:
>
>
> Bob, that is correct. The banded end connects to Q8's collector.
> If that's how you connected the diode then there's something else
> wrong.
>
> I recommend tracing the circuit wiring starting at the VOX
> UNIT's "RL" terminal. There is a shorted component, wire, or both
> somewhere that's causing R16 to smoke.
>
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, Bob Singer
> <aztrooper@...> wrote:
> >
> > One other item. On the 1N60 diodes I bought, there are 2 black bands on
> > one end with the other end being plain but the interior "wire" is red.
> > I put the double banded end side connected to Q8's collector thinking
> > the double band was the cathode end. Was I wrong? Bob
> >
> > w5rkl wrote:
> > >
> > >
> > > I agree with Gordon. "IF" D8 was installed backwards, 2.89 amps of
> > > current would flow through R16, Q8, and D8 (13.6 / 4.7 = 2.89).
> > > That's the reason R16 instantly overheated and smoked when power
> > > was applied to the 520.
> > >
> > > I suspect Q8 is toast and possibly D8 as well. A 2N2904 has an
> > > absolute maximum collector current rating of 200ma.
> > >
> > > For safety sake, I would replace all 3 components, R16, Q8, and
> > > D8. Make sure D8 is installed correctly, banded lead to Q8's
> > > collector.
> > >
> > > Mike W5RKL
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > > <mailto:TS-520_820_530_830%40yahoogroups.com>, Gordon JC Pearce
> > > <gordon@> wrote:

> > > >
> > > > On Sun, 2009-07-05 at 04:08 +0000, aztrooper@ wrote:
> > > > > on the relay. I replaced the cap, Q8 and D8. Before turning on the
> > > > > receiver, I put my voltmeter on pin 14 of the VOX board and
> turned the
> > > > > receiver on. I got 13.8v but almost immediately, R16 that
> connects to
> > > > > Q8's emitter to pin 14 smoked. Q8 was replaced with a 2N3906
> > > > > transistor. I checked the configuration on it before soldering
> it in
> > > > > place. Can anyone help with where I should go next?
> > > >
> > > > The easy mistake to make is that D8 is the back-EMF diode across the
> > > > relay coils and is therefore connected "backwards" with the cathode
> > > > towards the positive supply and anode connected to ground.
> > > >
> > > > With the diode the "right" way round, it will pass all the current
> > > > instead of the relay coils and magic smoke will be evident.
> > > >
> > > > Gordon 2M0YEQ
> > > >
> > >
> > >
> >
>
>

21682. BS-5/8

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-06 03:02:08 UTC
From: John
Topic: 21682 Message: 21682

Hi guys,
I know this is a long shot, but... is there anyone out there in ZL or VK (or where ever) who has an SM220 monitor with the BS-8 pan-adaptor who would like to swap for a BS-5? Or maybe you have a BS-8 to sell?
Thanks,
John
ZL1DT

21683. Re: [TS-520_820_530_830] Re: 520S will not transmit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-06 08:29:39 UTC
From: Gordon JC Pearce
Topic: 21657 Message: 21683

On Sun, 2009-07-05 at 13:57 -0500, Bob Singer wrote:
> One other item. On the 1N60 diodes I bought, there are 2 black bands on
> one end with the other end being plain but the interior "wire" is red.
> I put the double banded end side connected to Q8's collector thinking
> the double band was the cathode end. Was I wrong? Bob

As Mike said, the banded end should be the cathode. If you're unsure, check with a meter - remembering that if you're using an analogue meter, the *black* wire is *positive* on the resistance range. It's worth checking anyway, just in case the diode is faulty. Unusual, but not impossible.

The relay signal goes to the relays (really?), the AF board, the generator unit and pin 5 of the VFO socket on the back. I suppose the easiest thing to check is that there isn't anything shorting pin 5 of the VFO socket to ground.

On the AF board, the RL signal is fed through a couple of resistors to the emitter of Q5 in the audio preamp. In transmit, the RL voltage drives Q5 into cutoff, muting the audio. Since the first thing RL sees there is a 3k3 resistor we can probably not look too hard at the AF board - check for any blobs, frayed wires or conductive foreign objects, but it would be hard for a component fault to short RL to ground there.

On the generator board, the RL signal supplies power to the output amplifier for the balanced mixer. Again, you'd need multiple component faults for that to short the RL line to ground, although if D8 had failed dead short and RLT found itself grounded that might cause the fault.

The only other thing is that there are a couple of capacitors across the relay coils which - on my TS-520 at least - are disc ceramics. I'm a bit superstitious about 30-year-old disc ceramics used in hot environments, but they tend to fail leaky rather than dead short.

Gordon 2M0YEQ

21684. Re: [TS-520_820_530_830] Re: TS-520 blows fuse!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-06 08:41:02 UTC
From: Gordon JC Pearce
Topic: 16517 Message: 21684

On Sun, 2009-07-05 at 22:14 +0000, wp3vv1 wrote:
> --- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce <gordon@...> wrote:
> >
> > On Sun, 2009-07-05 at 19:09 +0000, wp3vv1 wrote:
> >
> > > My ts-520 is blowing the fuse and it doesn't have the dc-dc converter. Where should I look??
> >
> > Under what set of circumstances does it blow the fuse?
> > Has it ever worked since you've had it?
> > Can you think of anything that could have caused it to start blowing
> > fuses?
> >
> > Gordon 2M0YEQ
>
> Thanks Gordon for replying.
>
> It blows at startup. The radio was working nice. I cant' think of anything right now that causes the problem.

Sounds like a PSU problem, possibly caused by a blown rectifier. The HT rectifier uses pairs of diodes in series, to get an adequate reverse voltage. If one fails, the rest won't be far behind. Old PSU diodes tend to (in my experience) fail dead short and either blow mains fuses or emit copious amounts of magic smoke - sometimes both.

If it blows the fuse instantly at switch-on and nothing has been changed (like the voltage settings on the power plug) then the most likely thing is a power supply fault. This is the point where you need to ask yourself if you're happy about working on the insides - the HT power supply will kill you - no saving throw versus lightning, take 200hp damage - and you don't get a second chance.

Gordon 2M0YEQ

21685. Re: [TS-520_820_530_830] Re: TS-520 blows fuse!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-06 09:06:55 UTC
From: richard
Topic: 16517 Message: 21685

```
On Sun, 05 Jul 2009 23:42:59 -0000
"wp3vv1" <wp3vv1@...> wrote:

> --- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@...>
> wrote:
> >
> > assuming you mean turning the power switch on, it blows a
> > fuse!!!! sounds like transmormer, but check for wires pinched,
> > are you sure the correct rated fuse is in the holder....
> >
> >
>
>
>
> The fuse is 6a 250v as the manual said.
>

If you want a quick and dirty check if it is the transformer, and only
do this if the mains voltage is 110V.
Change the mains setting on the back to 230/240V.
If the primary has shorted turns, the fuse will probably still blow, but
you should now have half the volts on the secondary windings which just
may give you time to probe around and see what voltages you have.
rectifier diodes going s/c ect.
--
Best wishes

Richard Bown

##########################################################################################
Registered Linux User 36561
OS: Mandriva 2009.1 Spring Powerpack on an AMD Dual Athlon 64 +4400: 8
GB RAM DDR2 Ham Call: G8JVM , QRA IO82SP, Interests Microwave 1.3
GHz,2.3 GHz & 5.7GHz & 10 GHz
##########################################################################################
```

21686. Re: [TS-520_820_530_830] Re: TS-520 blows fuse!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-06 09:15:15 UTC
From: Gordon JC Pearce
Topic: 16517 Message: 21686

On Mon, 2009-07-06 at 10:06 +0100, richard wrote:

>
> If you want a quick and dirty check if it is the transformer, and only
> do this if the mains voltage is 110V.
> Change the mains setting on the back to 230/240V.
> If the primary has shorted turns, the fuse will probably still blow, but
> you should now have half the volts on the secondary windings which just
> may give you time to probe around and see what voltages you have.
> rectifier diodes going s/c ect.

If you were on 240V, could you use a yellow tranny to supply it with
110V for the same effect?

Gordon 2M0YEQ

21687. Re: TS-520 blows fuse!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-06 08:43:03 UTC
From: wp3vv1
Topic: 16517 Message: 21687

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce <gordon@...> wrote:
>
> On Sun, 2009-07-05 at 19:09 +0000, wp3vv1 wrote:
>
> > My ts-520 is blowing the fuse and it doesn't have the dc-dc converter. Where should I look??
>
> Under what set of circumstances does it blow the fuse?
> Has it ever worked since you've had it?
> Can you think of anything that could have caused it to start blowing
> fuses?
>
> Gordon 2M0YEQ
>

I read about some transistors on the AF board. Also I was looking at the service manual on c-31 electrolytic block behind the AVR board. Really not sure where to look.

21688. Re: [TS-520_820_530_830] Re: TS-520 blows fuse!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-06 10:24:05 UTC
From: richard
Topic: 16517 Message: 21688

On Mon, 06 Jul 2009 10:15:15 +0100
Gordon JC Pearce <gordon@...> wrote:

> On Mon, 2009-07-06 at 10:06 +0100, richard wrote:
>
> >
> > If you want a quick and dirty check if it is the transformer, and
> > only do this if the mains voltage is 110V.
> > Change the mains setting on the back to 230/240V.
> > If the primary has shorted turns, the fuse will probably still
> > blow, but you should now have half the volts on the secondary
> > windings which just may give you time to probe around and see what
> > voltages you have. rectifier diodes going s/c ect.
>
> If you were on 240V, could you use a yellow tranny to supply it with
> 110V for the same effect?
>
> Gordon 2M0YEQ
>
Here we go again
The yellow transformer he referring to is a BRITISH STANDARD, it may be
available from Farnell/ Newark and farnell outlets world wide but its
UK stock.
The same applies to RS Components and its US subsidery. Not a lot of use
if you don't use a BS1633 mains socket

--
Best wishes

Richard Bown

##
Registered Linux User 36561
OS: Mandriva 2009.1 Spring Powerpack on an AMD Dual Athlon 64 +4400: 8
GB RAM DDR2 Ham Call: G8JVM , QRA IO82SP, Interests Microwave 1.3
GHz,2.3 GHz & 5.7GHz & 10 GHz
##

21689. Re: [TS-520_820_530_830] Re: TS-520 blows fuse!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-06 10:28:13 UTC
From: Gordon JC Pearce
Topic: 16517 Message: 21689

On Mon, 2009-07-06 at 11:24 +0100, richard wrote:
> On Mon, 06 Jul 2009 10:15:15 +0100
> Gordon JC Pearce <gordon@...> wrote:
>
> > On Mon, 2009-07-06 at 10:06 +0100, richard wrote:
> >
> > >
> > > If you want a quick and dirty check if it is the transformer, and
> > > only do this if the mains voltage is 110V.
> > > Change the mains setting on the back to 230/240V.
> > > If the primary has shorted turns, the fuse will probably still
> > > blow, but you should now have half the volts on the secondary
> > > windings which just may give you time to probe around and see what
> > > voltages you have. rectifier diodes going s/c ect.
> >
> > If you were on 240V, could you use a yellow tranny to supply it with
> > 110V for the same effect?
> >
> > Gordon 2M0YEQ
> >
> Here we go again
> The yellow transformer he referring to is a BRITISH STANDARD, it may be
> available from Farnell/ Newark and farnell outlets world wide but its
> UK stock.
> The same applies to RS Components and its US subsidery. Not a lot of use
> if you don't use a BS1633 mains socket

Thanks for the helpful answer.

What exactly is your problem?

Gordon 2M0YEQ

21690. Re: [TS-520_820_530_830] Re: TS-520 blows fuse!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-06 11:04:22 UTC
From: richard
Topic: 16517 Message: 21690

On Mon, 06 Jul 2009 11:28:13 +0100
Gordon JC Pearce <gordon@...> wrote:

> On Mon, 2009-07-06 at 11:24 +0100, richard wrote:
> > On Mon, 06 Jul 2009 10:15:15 +0100
> > Gordon JC Pearce <gordon@...> wrote:
> >
> > > On Mon, 2009-07-06 at 10:06 +0100, richard wrote:
> > >
> > > >
> > > > If you want a quick and dirty check if it is the transformer,
> > > > and only do this if the mains voltage is 110V.
> > > > Change the mains setting on the back to 230/240V.
> > > > If the primary has shorted turns, the fuse will probably still
> > > > blow, but you should now have half the volts on the secondary
> > > > windings which just may give you time to probe around and see
> > > > what voltages you have. rectifier diodes going s/c ect.
> > >
> > > If you were on 240V, could you use a yellow tranny to supply it
> > > with 110V for the same effect?
> > >
> > > Gordon 2M0YEQ
> > >
> > Here we go again
> > The yellow transformer he referring to is a BRITISH STANDARD, it
> > may be available from Farnell/ Newark and farnell outlets world
> > wide but its UK stock.
> > The same applies to RS Components and its US subsidery. Not a lot
> > of use if you don't use a BS1633 mains socket
>
> Thanks for the helpful answer.
>
> What exactly is your problem?
>
> Gordon 2M0YEQ
>
the problem is YOU, it doesn't matter what I write, YOU have always
gotta put in you little snide comments.

I've given good helpful answers, but you have always got to add
something.
I said I would leave the list, it was only after many direct e-mails
asking me to stay I did.
This is just the final straw. If you are going to make comments try
putting them in English.

Not everyone is aware that a tranny is slang for transformer, its also
slang for transvestite, among others.

So you can pontificate to your hearts content, don't bother replying
as I will be unsubscribing.

--
Best wishes

Richard Bown

##
Registered Linux User 36561
OS: Mandriva 2009.1 Spring Powerpack on an AMD Dual Athlon 64 +4400: 8
GB RAM DDR2 Ham Call: G8JVM , QRA IO82SP, Interests Microwave 1.3
GHz,2.3 GHz & 5.7GHz & 10 GHz
##

21691. Re: [TS-520_820_530_830] Re: TS-520 blows fuse!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-06 11:45:22 UTC
From: Gordon JC Pearce
Topic: 16517 Message: 21691

On Mon, 2009-07-06 at 12:04 +0100, richard wrote:

> the problem is YOU, it doesn't matter what I write, YOU have always
> gotta put in you little snide comments.

It was a perfectly serious and reasonable question. If you chose to see
it as a snide comment, then that says more about you than me.

> I've given good helpful answers, but you have always got to add
> something.
> I said I would leave the list, it was only after many direct e-mails
> asking me to stay I did.
> This is just the final straw. If you are going to make comments try
> putting them in English.
> Not everyone is aware that a tranny is slang for transformer, its also
> slang for transvestite, among others.

Okay, granted, possibly a poor and confusing choice of words. It still
doesn't warrant the response you gave.

> So you can pontificate to your hearts content, don't bother replying
> as I will be unsubscribing

Suit yourself. If you fly off the handle any time someone asks you a
question, perhaps this isn't the best place for you.

Gordon 2M0YEQ

21692. Re: TS-520 blows fuse!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-06 16:06:17 UTC
From: w5rkl
Topic: 16517 Message: 21692

Gentlemen,

Please take this off forum.

Thank you

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce <gordon@...> wrote:
>
> On Mon, 2009-07-06 at 12:04 +0100, richard wrote:
>
> > the problem is YOU, it doesn't matter what I write, YOU have always
> > gotta put in you little snide comments.
>
> It was a perfectly serious and reasonable question. If you chose to see
> it as a snide comment, then that says more about you than me.
>
> > I've given good helpful answers, but you have always got to add
> > something.
> > I said I would leave the list, it was only after many direct e-mails
> > asking me to stay I did.
> > This is just the final straw. If you are going to make comments try
> > putting them in English.
> > Not everyone is aware that a tranny is slang for transformer, its also
> > slang for transvestite, among others.
>
> Okay, granted, possibly a poor and confusing choice of words. It still
> doesn't warrant the response you gave.
>
> > So you can pontificate to your hearts content, don't bother replying
> > as I will be unsubscribing
>
> Suit yourself. If you fly off the handle any time someone asks you a
> question, perhaps this isn't the best place for you.
>
> Gordon 2M0YEQ
>

21693. Re: TS-520 blows fuse!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-06 16:28:27 UTC
From: Gordon
Topic: 16517 Message: 21693

Karl,
The first thing I would do would be to build the "Transformer Saver" which is decribed in the files section here on this group.
It sounds like you may have shorted Diodes on the rectifier board or a bad capacitor.
When you turn the radio on, is the Heater switch in the OFF position?

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "ktschwab" <ktschwab@...> wrote:
>
> I was very surprised this morning when I turned the power switch to ON,
> (filament switch off) on my TS-520 when I got about 1/2 second of audio
> and all went quiet! I removed the power cord and the 6 amp fuse on the
> rear panel was blown wide open, glass blackend! I last used the radio
> about a month ago with hours of operation on it at that time. Prior to
> this, the radio gets used every week or two when I am up here at the
> cottage. I have owned this radio for years and years, and I have never
> blown a fuse in it. The only time the cover was off on this radio was
> to add the CW filter, everyting else, including the tubes, are
> original! So my question to the group is, what should I check first on
> my "road" to repair? At this point, installing a new fuse probably
> won't help, but I didn't have a spare at this location to give it a
> quick try. Thanks guys and 73, de KO8S, Karl
>

21694. VFO-230 For sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-06 17:58:17 UTC
From: tim_luvs_dawn
Topic: 21694 Message: 21694

I have a near mint vfo-230 Digital for sale..Not a scratch on the front panel no worn letters..Has a small scratch on the left side of cabinet.works 100%.Comes with cable and manual Check my feedback google ky4htj my old call.. Shipped to lower 48 for 225.00 postal m/o only..Contact me at n4dxx@foothills.net

21695. Re: TS-520 blows fuse!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-06 18:09:56 UTC
From: wp3vv1
Topic: 16517 Message: 21695

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Karl,
> The first thing I would do would be to build the "Transformer Saver" which is decribed in the files section here on this group.
> It sounds like you may have shorted Diodes on the rectifier board or a bad capacitor.
> When you turn the radio on, is the Heater switch in the OFF position?
>
> Gordon
> N6WK
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "ktschwab" <ktschwab@> wrote:
> >
> > I was very surprised this morning when I turned the power switch to ON,
> > (filament switch off) on my TS-520 when I got about 1/2 second of audio
> > and all went quiet! I removed the power cord and the 6 amp fuse on the
> > rear panel was blown wide open, glass blackend! I last used the radio
> > about a month ago with hours of operation on it at that time. Prior to
> > this, the radio gets used every week or two when I am up here at the
> > cottage. I have owned this radio for years and years, and I have never
> > blown a fuse in it. The only time the cover was off on this radio was
> > to add the CW filter, everyting else, including the tubes, are
> > original! So my question to the group is, what should I check first on
> > my "road" to repair? At this point, installing a new fuse probably
> > won't help, but I didn't have a spare at this location to give it a
> > quick try. Thanks guys and 73, de KO8S, Karl
> >
>

My heater switch is broken. It keeps on all the time. Do you think that could be the cause?

Thanks

21696. Re: VFO-230 For sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-06 18:15:06 UTC
From: tim_luvs_dawn
Topic: 21694 Message: 21696

--- In TS-520_820_530_830@yahoogroups.com, "tim_luvs_dawn" <htjude@...> wrote:
>
> I have a near mint vfo-230 Digital for sale..Not a scratch on the front panel no worn letters..Has a small scratch on the left side of cabinet.works 100%.Comes with cable and manual Check my feedback google ky4htj my old call.. Shipped to lower 48 for 225.00 postal m/o only..Contact me at n4dxx@...
>
I can also e-mail pics

21697. Re: VFO-230 For sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-06 18:20:42 UTC
From: tim_luvs_dawn
Topic: 21694 Message: 21697

--- In TS-520_820_530_830@yahoogroups.com, "tim_luvs_dawn" <htjude@...> wrote:
>
> I have a near mint vfo-230 Digital for sale..Not a scratch on the front panel no worn letters..Has a small scratch on the left side of cabinet.works 100%.Comes with cable and manual Check my feedback google ky4htj my old call.. Shipped to lower 48 for 225.00 postal m/o only..Contact me at n4dxx@...
>
Let me try this Contact me at n4dxx(@)foothills.net

21698. Re: TS-520SE: replace CW filter with narrow SSB filter?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-06 19:10:15 UTC
From: Thomas
Topic: 21672 Message: 21698

International Radio used to make a 1.8 kHz filter kit for Kenwood series that used the "Dial Hold" switch to turn in on and off. I have in one of my three TS-830s and it works great. Putting in an SSB narrow filter in your CW narrow slot will need the additional momodification of accessing that filter in SSB mode plus not shifting your BFO... not a good idea.

Go to inrad.com

73,

Tom WB9RXJ

--- In TS-520_820_530_830@yahoogroups.com, "Jeff" <kf5kwo@...> wrote:
>
> Is it possible to remove the narrow CW filter from my TS-520SE and substitute a narrow SSB filter, and use the WIDE/NARROW switch to switch between the two during SSB operation? I know, I know...why ruin the radio by removing the CW filter... Honestly, I'm SSB 99.9% of the time, and would like to have the SSB options to help during contests.
>
> Thanks!
>
> 73 de Jeff, KF5KWO
> Helotes, TX
>

21699. TS-520 and transverters?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-06 19:11:14 UTC
From: Gordon JC Pearce
Topic: 21699 Message: 21699

>From a bit of googling I found that Trio produced a 2m and a 6m transverter, the TV-502 and TV-506.

Were they any good, and are they worth trying to find? Would I be better just buying a VHF SSB radio?

I'm quite tempted by the idea of building a 70MHz transverter. At least I would only need one sweep of the dial to cover the whole band.

Gordon 2M0YEQ

21700. Re: [TS-520_820_530_830] Re: TS-520 blows fuse!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-06 19:18:22 UTC
From: Gordon JC Pearce
Topic: 16517 Message: 21700

On Mon, 2009-07-06 at 18:09 +0000, wp3vv1 wrote:

> My heater switch is broken. It keeps on all the time. Do you think that could be the cause?
>
> Thanks

If the switch is damaged, that could very well be shorting to ground and blowing fuses.

I leave the heater switch on all the time, since I'm always running from the mains and rarely use my TS-520 for "receive-only" work. Imagine how annoyed you'd be if you heard some rare DX and then had to wait five minutes for the valves to heat up!

Gordon 2M0YEQ

21701. Re: [TS-520_820_530_830] Re: WARC on R-820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-06 20:23:03 UTC
From: Daniel TOESCA
Topic: 21638 Message: 21701

Hi Fred,

Just seen your post about the WARC conversion. Thanks for any help you can give me !!!

I don't know if you have read Bill's answer : he said this QST article I found in some posts is on a CD and could be send " as is ", I mean without scanning, etc..

If you have another method, could you please write down a brief summary of what has to be done, before trying to forward step-by-step instructions ?

I have a rather good thechincal backgound, at last I think so... I've gor my ham licence 42 years ago when I was sixteen. My dad was a TV serviceman and I fell into the magic pot when I was barely able to stand up...

I build my own SSB Tx-Rx combo back in 1969, remember myself grinding surplus FT-243 Xtals to make the sideband filter, and so on...

This was only to give you an idea of the guy on this side of the keyboard (or the screen ?).

73's - Daniel, ON5PY

2009/7/5, fred_n8yx <johnmullens@...>:
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> "on5py" <ON5PY1967@...> wrote:
> >
> > Hi, I have seen in a eham.net review that " QST ran a WARC-band
> modification article for this rig and its companion TS-820S in the early
> 80's. The magazine also featured an article on adapting the 'twins' for full
> QSK; I recommend the sidetone mod if one uses the TS-820S/R-820 combo on CW.
> "
> > >
> > > By any chace or luck, does somebody have a copy of that QST article ?
> > >
> > > Thanks for looking & 73's
> > >
> > > Daniel, ON5PY
> > >
> Daniel,
>
> I've done the conversion on both the R-820 and TS-820S, and am getting
> ready to do it to another "set". I'll be glad to help you through the

> procedure or answer any questions that might arise.
>
> Fred, 'YX
>
>
>

[Non-text portions of this message have been removed]

21702. Re: [TS-520_820_530_830] Re: WARC on R-820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-07 05:03:42 UTC
From: Robert DROGOUL
Topic: 21638 Message: 21702

Hi,
Yes you can find this article (TS820 WARC addition) in QST archives, if you are ARRL member, just a search in the database will give you the corresponding QST. After it's just a *.pdf files to downmoad. If you are not member I may send you a copy of this file. Just a fast mail!!!
73

F5UL - Robert DROGOUL
Ref-Union - ARRL - NAQCC - Loc : JN35BV
Signataire de la Charte Union des Télégraphistes Francophones
http://utf.webamat.org
----- Original Message -----
From: Daniel TOESCA
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, July 06, 2009 10:23 PM
Subject: Re: [TS-520_820_530_830] Re: WARC on R-820

Hi Fred,

Just seen your post about the WARC conversion. Thanks for any help you can give me !!!

I don't know if you have read Bill's answer : he said this QST article I found in some posts is on a CD and could be send " as is ", I mean without scanning, etc..

If you have another method, could you please write down a brief summary of what has to be done, before trying to forward step-by-step instructions ?

I have a rather good thechincal backgound, at last I think so... I've gor my ham licence 42 years ago when I was sixteen. My dad was a TV serviceman and I fell into the magic pot when I was barely able to stand up...

I build my own SSB Tx-Rx combo back in 1969, remember myself grinding surplus FT-243 Xtals to make the sideband filter, and so on...

This was only to give you an idea of the guy on this side of the keyboard (or the screen ?).

73's - Daniel, ON5PY

2009/7/5, fred_n8yx <johnmullens@...>:
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> "on5py" <ON5PY1967@...> wrote:

> >
> > Hi, I have seen in a eham.net review that " QST ran a WARC-band
> modification article for this rig and its companion TS-820S in the early
> 80's. The magazine also featured an article on adapting the 'twins' for full
> QSK; I recommend the sidetone mod if one uses the TS-820S/R-820 combo on CW.
> "
> >
> > By any chace or luck, does somebody have a copy of that QST article ?
> >
> > Thanks for looking & 73's
> >
> > Daniel, ON5PY
> >
> Daniel,
>
> I've done the conversion on both the R-820 and TS-820S, and am getting
> ready to do it to another "set". I'll be glad to help you through the
> procedure or answer any questions that might arise.
>
> Fred, 'YX
>
>
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

21703. Re: [TS-520_820_530_830] TS-520 and transverters?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-07 21:23:30 UTC
From: Bruce Jewell
Topic: 21699 Message: 21703

I have a TV-502 that I used to use regularly with my TS-520 on 2m SSB. It worked pretty well, and the combo always drew rave reviews for the quality of the transmit audio. By today's standards, the receiver is a little hard of hearing, but I used a Landwehr mast mounted pre-amp in front of it and it did just fine. The output was 8 to 10 watts, and I used a brick amplifier to boost it on up to 170 watts. I had a lot of fun with it.

If you already have the 520 and the amplifer, then it's not a band investment. I wouldn't pay more than about $125 USD for it. Beware, it's hard to find the 502 with its cables.

Bruce
W4KPA

--- On Mon, 7/6/09, Gordon JC Pearce <gordon@...> wrote:

From: Gordon JC Pearce <gordon@...>
Subject: [TS-520_820_530_830] TS-520 and transverters?
To: TS-520_820_530_830@yahoogroups.com
Date: Monday, July 6, 2009, 3:11 PM

>From a bit of googling I found that Trio produced a 2m and a 6m

transverter, the TV-502 and TV-506.

Were they any good, and are they worth trying to find? Would I be

better just buying a VHF SSB radio?

I'm quite tempted by the idea of building a 70MHz transverter. At least

I would only need one sweep of the dial to cover the whole band.

Gordon 2M0YEQ

[Non-text portions of this message have been removed]

21704. Hello / Help

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-08 00:23:35 UTC
From: Stephen Judd
Topic: 21704 Message: 21704

First off thanks for the approval of joining the group
I have been looking in the archive for several hours and not finding the answere I need
I have to me a new TS-520 it has been working very well for several months now but just recently I have notice during initial power up the light in the meter section is flickering and I think I might be hearing some arching dont have that great of hearing but noticed today by turning the Plate control stopped all flickering and arching is this a way that the radio is telling me to clean up the PA cage or is the a cap issue any help would be appriciated 73

Stephen/KB7BGS

[Non-text portions of this message have been removed]

21705. Re: Hello / Help

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-08 02:18:00 UTC
From: w5rkl
Topic: 21704 Message: 21705

Hello Stephen,

If's possible arcing may be occurring in your 520. You will have
to inspect the 520 both top and bottom, looking for burnt, cracked,
or overheating resistors, for example, along with bulging, physical
leakage from capacitor positive ends, and other signs of overheating
to be sure.

Cleaning the PA cage is a good idea which also includes the cooling
fan. Canned air from Walmart should be used to blow dust and dirt
from variable capacitor plates, cooling fan blades, and from inside
the PA cage.

I also recommend checking the two 10 ohm 1 watt cathode resistors
on the bottom of the final amplifier PC board. These resistors
tend to overheat when operators push the final amplifier too hard
for those few extra useless watts output. If these resistors
show signs of overheating, cracked bodies, or burnt appearance,
replace them with new 10 ohm 1 watt resistors. Do NOT increase
the wattage!

Hope this helps.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Stephen Judd <swanradios@...> wrote:
>
> First off thanks for the approval of joining the group
> I have been looking in the archive for several hours and not finding the answere I need
> I have to me a new TS-520 it has been working very well for several months now but just
recently I have notice during initial power up the light in the meter section is flickering
and I think I might be hearing some arching dont have that great of hearing but noticed
today by turning the Plate control stopped all flickering and arching is this a way that
the radio is telling me to clean up the PA cage or is the a cap issue any help would be
appriciated 73
>
> Stephen/KB7BGS
>
>
>
>
> [Non-text portions of this message have been removed]
>

21706. Re: TS-520 and transverters?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-09 00:04:55 UTC
From: james27613
Topic: 21699 Message: 21706

Hi,

I have the tv-502 2m and the tv-506 6m transverters,
lot of fun to turn on the 520 and get on 2m or 6m ssb

I also use an older RF Concepts 2m brick with my Moxon antenna.

Copies of the manuals are in the file section for reference.

73 james

21707. D-104 mic question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-09 23:28:30 UTC
From: Ed
Topic: 21707 Message: 21707

I have just acquired a mint condition D-104 with a TUG-9 amplified stand. The 9V battery is way past dead, & I'm wondering if I even need to use the preamplifier built into the base with my TS-820. Can I just connect the green wire from the top of the stand to the mic lead in the cord, and the yellow wire to the shield of the cord? IIRC, the mic element is a Hi-Z (it's a standard Astatic MC-320 element), so it seems to me that I can just do away with the preamp altogether.

TIA for any help you can offer,

73,

Ed, KD0BKH

21708. re: previous message on D-104

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-09 23:36:01 UTC
From: Ed
Topic: 21708 Message: 21708

The stand is a T-UP9, not a T-UG.

Sorry for my confusion.

Ed, KD0BKH

21709. Question on the TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-09 11:27:44 UTC
From: Hector Perez-Diaz
Topic: 21709 Message: 21709

Hi there folks. I have a TS-820S that I got about a month ago. The first time I fired it up after a previous check up and tubes ok, it blew off the fuse at the back while doing CW on my FIST frequency. I replaced the fuse and agin the same thing ocurred. I decided to give it a test on the Phone Bands and the radio worked ok for the rest of the time. I have to pinpoint that it was working ok on nets where I participate that just take short brakes to speak. Last night, I spent about an hour or so chatting on 15 meters with some friends. On of the guys talking to me said to me, "OM wait just a few seconds, my phone is ringing" at that point without me talking, the radio went off again. I presume the fuse at the back is gone , ill check it later after the usual honey does. But I wonde what might be causing such a malfunctioning with the blown fuse. Radio is ok on 60 amps of current and tubes are ok

Help is welcome

Hector

21710. Whats right

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-09 01:37:31 UTC
From: Stephen Judd
Topic: 21710 Message: 21710

I have read and read on the 6146/a/b/w Tube I have a TS-520, 1976 was
the purchase date it diplicts in the parts discription of the Manual to use 6146A and in the Transmitter section of the Manual also says 6146A (S2001) and in the Block Diagram it shows S2001 tubes In the Manual
This Radio Has been Repaired by Ken Kenski K4EAA On April 5-2007 and He placed a pair of (6146B/85298A) I am looking to purchase a set of back up tubes can some one please clear this up for me its almost like there is no set standard on these tubes wish My Swan Rigs were that way thanks 73.

Stephen/KB7BGS

[Non-text portions of this message have been removed]

21711. Low noise High Gain Pre-Amp in a ts 830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-09 07:22:42 UTC
From: tim_luvs_dawn
Topic: 21711 Message: 21711

HowdY!I am looking into installing a pre-amp in my trusty old 830 for use in the higher bands..I have a 15 db Low noise less than 2db@30mhz wideband Mosfet pre-amp..Next question I want to install it inside the rig..Where would i hook it up?Coming off the rf board?relays somewhere?Any hints or advice would be appreciated.I know the 830 has a very good receiver..But i have 2 830's and just thought i would give my banged up one some experimenting just to see how effective it would be..I have already installed one in an ft-101 and wow it works great in it as i am much more familiar with it than the ts830..Thanks in advance..

21712. email from Ken K4EAA

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-09 18:30:15 UTC
From: Wim van der Zwan
Topic: 21712 Message: 21712

Hello,

Iam looking for the email adress from Ken, K4EAA. I did try the email on his side but I received my email return.... Maybe is Ken out of busines???

I hope that someone didhave his email adress, I will order some repair parts TS-830

Vy 73 de Wim PA2AM

21713. Re: [TS-520_820_530_830] email from Ken K4EAA

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-09 23:56:20 UTC
From: Lou Blasco
Topic: 21712 Message: 21713

Hi Wim,

Ken is not out of business just very very busy. I ordered some parts from him a couple of weeks ago and got I replies within 24 hours of posting. You can contact him at this address

ken@...

His last email to me from this address was 7 days ago. See here for an explanation of his workload. http://www.k4eaa.com/rates.html

Regards

Lou
VK3ALB

At 04:30 AM 10/07/2009, you wrote:
>Hello,
>
>Iam looking for the email adress from Ken, K4EAA. I did try the
>email on his side but I received my email return.... Maybe is Ken
>out of busines???
>
>I hope that someone didhave his email adress, I will order some
>repair parts TS-830
>
>Vy 73 de Wim PA2AM
>

21714. Re: [TS-520_820_530_830] Whats right

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-10 00:10:25 UTC
From: Lou Blasco
Topic: 21710 Message: 21714

Hi Stephen,

Your 6146W's will be fine. Go to the files section and look at the item called "The 6146 Family of Tubes" which gives you an idea of the complications with changing tubes. Having said that I have 6146W's in two 520's and I know for a fact that a local Kenwood service agent here in Australia routinely used 6146W's as replacements back in the 1980's.

As you already stated, Ken uses 6146W's whenever he replaces tubes in a hybrid. I've yet to hear a bad work about Ken's work anywhere. The only thing you might notice is a little less power on the higher bands - maybe 5 to 10 watts less at 10m but the guy you're talking to won't be able to tell.

I think you can buy replacement tubes from Ken.

Regards

Lou
VK3ALB

At 11:37 AM 09/07/2009, you wrote:
>I have read and read on the 6146/a/b/w Tube I have a TS-520, 1976 was
>the purchase date it diplicts in the parts discription of the Manual
>to use 6146A and in the Transmitter section of the Manual also says
>6146A (S2001) and in the Block Diagram it shows S2001 tubes In the Manual
>This Radio Has been Repaired by Ken Kenski K4EAA On April 5-2007 and
>He placed a pair of (6146B/85298A) I am looking to purchase a set of
>back up tubes can some one please clear this up for me its almost
>like there is no set standard on these tubes wish My Swan Rigs were
>that way thanks 73.
>
>Stephen/KB7BGS
>
>
>
>
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>Yahoo! Groups Links
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21715. Re: [TS-520_820_530_830] Whats right

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-10 20:50:36 UTC
From: martin
Topic: 21710 Message: 21715

Hi Stephen. This subject has been debated here before. The consensus from those who know best seems to be to use 6146B or 6146W (after a certain manufacture date, but NOT to use 6146A. Also I have seen warnings NOT to use 6146 tubes made in China. I believe that there is a file in the files section of nthis group on the subject.

TTYL

Stephen Judd wrote:
> I have read and read on the 6146/a/b/w Tube I have a TS-520, 1976 was
> the purchase date it diplicts in the parts discription of the Manual to use 6146A and in the Transmitter section of the Manual also says 6146A (S2001) and in the Block Diagram it shows S2001 tubes In the Manual
> This Radio Has been Repaired by Ken Kenski K4EAA On April 5-2007 and He placed a pair of (6146B/85298A) I am looking to purchase a set of back up tubes can some one please clear this up for me its almost like there is no set standard on these tubes wish My Swan Rigs were that way thanks 73.
>
> Stephen/KB7BGS
>
>
>
>
> [Non-text portions of this message have been removed]
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at http://www.defectivebydesign.org/what_is_drm"

21716. Re: Whats right

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-10 21:41:39 UTC
From: w5rkl
Topic: 21710 Message: 21716

If you have any doubts what so ever then take the time and read Glen Zook's "The 6146 family of tubes" document located in the "files" section of this forum and also on Glen's website at:

http://k9sth.com/Page_2.html

Never assume or guess. Read the document so you get the right answers to your questions. If you still have questions or simply don't understand the document, drop Glen an e-mail. You can get his e-mail address on his website through the link provided above.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@...> wrote:
>
> Hi Stephen. This subject has been debated here before. The consensus
> from those who know best seems to be to use 6146B or 6146W (after a
> certain manufacture date, but NOT to use 6146A. Also I have seen
> warnings NOT to use 6146 tubes made in China. I believe that there is
> a file in the files section of nthis group on the subject.
>
> TTYL
>
> Stephen Judd wrote:
> > I have read and read on the 6146/a/b/w Tube I have a TS-520, 1976 was
> > the purchase date it diplicts in the parts discription of the Manual to use 6146A and in the Transmitter section of the Manual also says 6146A (S2001) and in the Block Diagram it shows S2001 tubes In the Manual
> > This Radio Has been Repaired by Ken Kenski K4EAA On April 5-2007 and He placed a pair of (6146B/85298A) I am looking to purchase a set of back up tubes can some one please clear this up for me its almost like there is no set standard on these tubes wish My Swan Rigs were that way thanks 73.
> >
> > Stephen/KB7BGS
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
>
> --
> CUL8R
>
> KBOHAE kb0hae@... Martin Campbell

>
> A Satisfied Sidux Linux user! To get Sidux go to:
> www.sidux.com/index.html
> "Protect your digital freedom and privacy, eliminate DRM, learn more
> at http://www.defectivebydesign.org/what_is_drm"
>

21717. TS-530s mod help

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-11 01:50:01 UTC
From: hotfoot95404
Topic: 21717 Message: 21717

I'm attempting to do the surge suppressor mod on the TS-530s AF board that was in the service bulletin. They list the part as a ERZD03DK331. I cannot find any specs on it anywhere on the web. Can anyone suggest a suppressor that would work in it's place? Thanks
73
Pete

21718. Re: [TS-520_820_530_830] TS-530s mod help

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-11 03:49:36 UTC
From: Dave ve3wej
Topic: 21717 Message: 21718

did you check kenwood parts, sometimes there description gives more info (if it still available)

----- Original Message -----
From: "hotfoot95404" <flyingsub@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, July 10, 2009 9:50 PM
Subject: [TS-520_820_530_830] TS-530s mod help

> I'm attempting to do the surge suppressor mod on the TS-530s AF
> board that was in the service bulletin. They list the part as a
> ERZD03DK331. I cannot find any specs on it anywhere on the web. Can anyone
> suggest a suppressor that would work in it's place? Thanks 73
> Pete
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

21719. Re: TS-530s mod help

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-11 05:30:23 UTC
From: hotfoot95404
Topic: 21717 Message: 21719

--- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@...> wrote:
>
> did you check kenwood parts, sometimes there description gives more info (if
> it still available)
>
>
> ----- Original Message -----
> From: "hotfoot95404" <flyingsub@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Friday, July 10, 2009 9:50 PM
> Subject: [TS-520_820_530_830] TS-530s mod help
>
>
> > I'm attempting to do the surge suppressor mod on the TS-530s AF
> > board that was in the service bulletin. They list the part as a
> > ERZD03DK331. I cannot find any specs on it anywhere on the web. Can anyone
> > suggest a suppressor that would work in it's place? Thanks 73
> > Pete
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
> Dave,
Kenwood has the part listed as discontinued. No specs or equivalent part shown. Its listed as a diode.73
Pete

21720. Re: [TS-520_820_530_830] Whats right

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-11 09:17:41 UTC
From: Gordon JC Pearce
Topic: 21710 Message: 21720

On Fri, 2009-07-10 at 15:50 -0500, martin wrote:
> Hi Stephen. This subject has been debated here before. The consensus
> from those who know best seems to be to use 6146B or 6146W (after a
> certain manufacture date, but NOT to use 6146A. Also I have seen
> warnings NOT to use 6146 tubes made in China. I believe that there is
> a file in the files section of nthis group on the subject.
>
> TTYL

When I got my TS-520, it had no PA valves fitted and I was told by the seller to find S2001s or 6146As but definitely not 6146Bs. Now, I've seen S2001s described as an equivalent for both 6146A and 6146B, from different sources.

The chap I actually bought the valves off had two new-old-stock RCA 6146As and a driver that he'd bought for his own TS-520S but never fitted. I put them in, neutralised them according to the instructions and they've been absolutely fine. The TS-520 has seen pretty much daily use since I got it, with a lovely clean output and (as a well-known British car maker would say) adequate power.

Gordon 2M0YEQ

21721. Re: [TS-520_820_530_830] Whats right

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-11 11:39:35 UTC
From: martin
Topic: 21710 Message: 21721

Hi Gordon. Upon reading the TS-520 manual, it states that S2001A or 6146B tubes should be used to replace a bad final tube. If you read the file (The 6146 family of tubes) in the files section of this group, you will see that the 6146 and 6146A have significant differences (from the 6146B) that make it unwise to substitute 6146 or 6146A tubes for 6146B tubes (or vice versa) in most cases. I would say that you are lucky to not have had any problems using the 6146A tubes in your TS-520.

While I have never tried to substitute 6146A tubes for 6146Bs in any Kenwood hybrid, I always listen to those with more experience and knowledge than myself. Such as Ken (K4EAA). Ken repairs and restores Kenwood hybrid radios. In the FAQ section of his web site, he recommends against the use of 6146A tubes in the Kenwood hybrid radios.

TTYL

Gordon JC Pearce wrote:
> On Fri, 2009-07-10 at 15:50 -0500, martin wrote:

> When I got my TS-520, it had no PA valves fitted and I was told by the
> seller to find S2001s or 6146As but definitely not 6146Bs. Now, I've
> seen S2001s described as an equivalent for both 6146A and 6146B, from
> different sources.
>
> The chap I actually bought the valves off had two new-old-stock RCA
> 6146As and a driver that he'd bought for his own TS-520S but never
> fitted. I put them in, neutralised them according to the instructions
> and they've been absolutely fine. The TS-520 has seen pretty much daily
> use since I got it, with a lovely clean output and (as a well-known
> British car maker would say) adequate power.
>
> Gordon 2M0YEQ
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

21722. Looking for a couple of R-820 parts

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-11 10:48:30 UTC
From: fred_n8yx
Topic: 21722 Message: 21722

I know this is a long shot...but...does anyone have the shield which fits over the IF-A (filter) board in an R-820?

Also need a spinner-style main tuning knob.

Thanks!

21723. Switch and Plate

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-11 17:25:12 UTC
From: kf7bjp
Topic: 21723 Message: 21723

Hello all,

I have 520, and in my last move one of my toggle switches, the NB toggle and the silver plate that goes over the main dial went missing and I can not for the life of me find where they went to. I called Kenwood and they pretty much said it is considered like an antique and that there is nothing they can do. Told me to search the internet HiHi....so I am inquireing as to if any of you might be able to give me a little guidence???? Thanks for the help.

73
Justin Holder
KF7BJP

21724. Re: Switch and Plate

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-11 17:53:06 UTC
From: Gordon
Topic: 21723 Message: 21724

--- In TS-520_820_530_830@yahoogroups.com, "kf7bjp" <kf7bjp@...> wrote:
>
> Hello all,
>
> I have 520, and in my last move one of my toggle switches, the NB toggle and the silver plate that goes over the main dial went missing and I can not for the life of me find where they went to. I called Kenwood and they pretty much said it is considered like an antique and that there is nothing they can do. Told me to search the internet HiHi....so I am inquireing as to if any of you might be able to give me a little guidence???? Thanks for the help.
>
> 73
> Justin Holder
> KF7BJP
>

Justin,
Contact Bob Mansker. I am sure he can help you out.
He is a member of this group.
You can find a link to his Email on my Kenwood page. www.n6wk.com/kenwood

73,
Gordon

21725. TS-830s Parts / Fixer Rig for sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-11 20:40:45 UTC
From: Dave
Topic: 21725 Message: 21725

Hi -

It is time to clean up the shack, so I'm selling a TS-830s parts rig. This would be good for someone who works on these rigs for parts, but could probably be brought back to life with a well-stocked Kenwood junk box.

This rig has been in storage for 7-8 years since I acquired it. It was a project that never got done and I've managed to keep my other 830s on the air.

The bad:

* No tubes, but the driver shield is included
* RF board has some cracked cores in a few inductors
* Tune knob skirt is broken, all other knobs in good shape*
* Tune control shaft coupler shows a crack, but seems to be usable
* Missing the hardware (case, IF board and final cage screws) to re-assemble
* IF board is out of the rig but all wires and connectors seem to be there

Good stuff:

* No signs of arching or burns in the finals components area
* Front face in good cosmetic condition
* Almost 900v plate voltage as measured on front panel (no finals or driver, so no real tx test)
* Has top and bottom case with feet and handle. Handle looks really good, case is a bit dirty
* Trio YK-88c 500hz CW filter
* Trio YG-4555C 500hz CW filter
* Trio YK-88S1 SSB filter
* muRata CFJ455K5 IF filter
* Original 'Platnium Edition' i.e., not 'Gold' :) (see http://www.eham.net/forums/Elmers/3723)

Photos are available at

http://www.zievid.com/users/dave/830/kw13.jpg
http://www.zievid.com/users/dave/830/kw12.jpg
http://www.zievid.com/users/dave/830/kw11.jpg
http://www.zievid.com/users/dave/830/kw10.jpg
http://www.zievid.com/users/dave/830/kw9.jpg
http://www.zievid.com/users/dave/830/kw8.jpg
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http://www.zievid.com/users/dave/830/kw4.jpg

http://www.zievid.com/users/dave/830/kw3.jpg
http://www.zievid.com/users/dave/830/kw2.jpg
http://www.zievid.com/users/dave/830/kw1.jpg

I'd like to get $200 plus shipping from northern California, but am totally open to offers, selling sub-systems or reasonable chunks of the rig. Tell me what you need. Feel free to make a low-ball offer so we can both have a good laugh. :)

73,
- Dave W6OT

21726. Re: [TS-520_820_530_830] Switch and Plate

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-11 22:07:43 UTC
From: Bob Singer
Topic: 21723 Message: 21726

Here is the email address of a guy in Colorado who has a lot of parts.
Try him.
bmaintz@... Bob Mansker

Bob in Missouri

kf7bjp wrote:
>
>
> Hello all,
>
> I have 520, and in my last move one of my toggle switches, the NB
> toggle and the silver plate that goes over the main dial went missing
> and I can not for the life of me find where they went to. I called
> Kenwood and they pretty much said it is considered like an antique and
> that there is nothing they can do. Told me to search the internet
> HiHi....so I am inquireing as to if any of you might be able to give
> me a little guidence???? Thanks for the help.
>
> 73
> Justin Holder
> KF7BJP
>
>

21727. Re: [TS-520_820_530_830] TS-830s Parts / Fixer Rig for sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-11 22:48:13 UTC
From: Charles Coffee
Topic: 21725 Message: 21727

Dave,
Would you take $150 for the unit as it is, can pay you via Paypal if you like and I will cover
the UPS shipping/insurance.

Chuck Coffee
KJ4GU

On Sat, Jul 11, 2009 at 4:40 PM, Dave <dave@...> wrote:

> Hi -
>
> It is time to clean up the shack, so I'm selling a TS-830s parts rig.
> This would be good for someone who works on these rigs for parts, but
> could probably be brought back to life with a well-stocked Kenwood junk
> box.
>
> This rig has been in storage for 7-8 years since I acquired it. It was
> a project that never got done and I've managed to keep my other 830s on
> the air.
>
> The bad:
>
> * No tubes, but the driver shield is included
> * RF board has some cracked cores in a few inductors
> * Tune knob skirt is broken, all other knobs in good shape*
> * Tune control shaft coupler shows a crack, but seems to be usable
> * Missing the hardware (case, IF board and final cage screws) to
> re-assemble
> * IF board is out of the rig but all wires and connectors seem to be there
>
>
> Good stuff:
>
> * No signs of arching or burns in the finals components area
> * Front face in good cosmetic condition
> * Almost 900v plate voltage as measured on front panel (no finals or
> driver, so no real tx test)
> * Has top and bottom case with feet and handle. Handle looks really
> good, case is a bit dirty
> * Trio YK-88c 500hz CW filter
> * Trio YG-4555C 500hz CW filter
> * Trio YK-88S1 SSB filter
> * muRata CFJ455K5 IF filter
> * Original 'Platnium Edition' i.e., not 'Gold' :) (see
> http://www.eham.net/forums/Elmers/3723)

>
>
>
> Photos are available at
>
> http://www.zievid.com/users/dave/830/kw13.jpg
> http://www.zievid.com/users/dave/830/kw12.jpg
> http://www.zievid.com/users/dave/830/kw11.jpg
> http://www.zievid.com/users/dave/830/kw10.jpg
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> http://www.zievid.com/users/dave/830/kw3.jpg
> http://www.zievid.com/users/dave/830/kw2.jpg
> http://www.zievid.com/users/dave/830/kw1.jpg
>
> I'd like to get $200 plus shipping from northern California, but am
> totally open to offers, selling sub-systems or reasonable chunks of the
> rig. Tell me what you need. Feel free to make a low-ball offer so we
> can both have a good laugh. :)
>
> 73,
> - Dave W6OT
>
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>
> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

21728. for sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-11 23:00:21 UTC
From: Harlan
Topic: 18427 Message: 21728

My late bro/law bought this ts130se, and being I don't know about the workings of radios much, will offer it for sale for parts for $100 or best offer. No cover or ptt relay.
Harlan, KJ4GXN

21729. Re: [TS-520_820_530_830] for sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-12 00:49:30 UTC
From: Robert Young
Topic: 18427 Message: 21729

Hi Harlan, I'm interested in the TS-130SE. I'm located in TX so can you
give me an estimate on shipping charges?
Robert Young, W4UHB
400 Willow Park Drive
Willow Park, TX 76087

Let me know if it's still available. Can you send me any photos of the
unit?
I'm from WPB Florida many years ago, ie 1952, too crowded for me now...

73
Robert

On Sat, Jul 11, 2009 at 6:00 PM, Harlan <hbloom@...> wrote:

>
>
> My late bro/law bought this ts130se, and being I don't know about the
> workings of radios much, will offer it for sale for parts for $100 or best
> offer. No cover or ptt relay.
> Harlan, KJ4GXN
>
>
>

[Non-text portions of this message have been removed]

21730. Re: [TS-520_820_530_830] for sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-12 01:12:00 UTC
From: harlan
Topic: 18427 Message: 21730

Hi Robert
I will take $10 for the shipping, and will send some pics of it tomorrow (Sunday) Just need an email addy.
Harlan KJ4GXN

----- Original Message -----
From: Robert Young
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, July 11, 2009 8:49 PM
Subject: Re: [TS-520_820_530_830] for sale

Hi Harlan, I'm interested in the TS-130SE. I'm located in TX so can you
give me an estimate on shipping charges?
Robert Young, W4UHB
400 Willow Park Drive
Willow Park, TX 76087

Let me know if it's still available. Can you send me any photos of the
unit?
I'm from WPB Florida many years ago, ie 1952, too crowded for me now...

73
Robert

On Sat, Jul 11, 2009 at 6:00 PM, Harlan <hbloom@...> wrote:

>
>
> My late bro/law bought this ts130se, and being I don't know about the
> workings of radios much, will offer it for sale for parts for $100 or best
> offer. No cover or ptt relay.
> Harlan, KJ4GXN
>
>
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

21731. outboard noise reduction

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-12 04:08:10 UTC
From: WN9D
Topic: 21731 Message: 21731

Has anyone operated any of the above rigs with outboard noise reduction, such as SCAF-1, Autek, Timewave, etc?

How did it work for you? I'm considering such a device for my TS-820 audio.

Thanks + '73,
Randy WN9D

[Non-text portions of this message have been removed]

21732. Re: TS-530s mod help

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-12 02:57:35 UTC
From: hotfoot95404
Topic: 21717 Message: 21732

--- In TS-520_820_530_830@yahoogroups.com, "hotfoot95404" <flyingsub@...> wrote:
>
>
> I'm attempting to do the surge suppressor mod on the TS-530s AF board that was in the service bulletin. They list the part as a ERZD03DK331. I cannot find any specs on it anywhere on the web. Can anyone suggest a suppressor that would work in it's place? Thanks 73
> Pete
>

Osamu,
Thank you for that info and link. Regards

Pete

21733. Re: [TS-520_820_530_830] outboard noise reduction

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-12 05:13:14 UTC
From: Dale Olson
Topic: 21731 Message: 21733

I use a Gap "Hear It" outboard noise reduction module with my TS-520. Does it work? Sometimes, on some types of noise. It does seem to reduce the atmospheric noise a bit- although not nearly as much as you would like. It does a much better job of supressing heterodynes. They probably get knocked back by 25 - 30dB. If you run the unit at the highest noise reduction settings, you start to hear quite a few artifacts from the noise reduction process. These can be just about as anoying as the noise you are hopeing to get rid of. Yet I have found that it can, under the right conditions, pull some signals out of the noise floor to the point that they are readable. But I suspect an extra 20ft. of height on my antenna would do the same or better job. I am glad I have it - it is another tool to use, but before I bought another one, I would spend a like amount of funds on antenna inprovement.

Dale
VE6QDO

----- Original Message -----
From: WN9D
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, July 11, 2009 10:08 PM
Subject: [TS-520_820_530_830] outboard noise reduction

Has anyone operated any of the above rigs with outboard noise reduction, such as SCAF-1, Autek, Timewave, etc?

How did it work for you? I'm considering such a device for my TS-820 audio.

Thanks + '73,
Randy WN9D

[Non-text portions of this message have been removed]

21734. Re: Switch and Plate

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-12 05:04:47 UTC
From: Paul
Topic: 21723 Message: 21734

--- In TS-520_820_530_830@yahoogroups.com, "kf7bjp" <kf7bjp@...> wrote:
>
> Hello all,
>
> I have just read Justin KF7BJP note and sorry to hear about your damage. If you can not scrounge up a noise blanker switch I have a couple spares here you can have the two for $10.00 plus postage.

Paul VK5FUZZ

21735. ts-520s no recieve or transmit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-13 23:51:50 UTC
From: kd4taw
Topic: 21735 Message: 21735

I have no recieve or transmit on any band,except jjy/wwv.Radio was working perfect until i took a nap this am.Have no disply also on my DG-5.Radio will key so relays are working.
Thanks Danny

21736. Re: ts-520s no recieve or transmit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-14 17:52:53 UTC
From: w5rkl
Topic: 21735 Message: 21736

Hello Danny,

A few things to check. You may have already check these but since
you didn't say you did, thought I would mention them.

1. Check rear panel REC ANT SW. Should be in "NORMAL" position.

2. Check RF ATTN push button switch. Normal position is not depressed.

3. Can you hear the Marker signal (25Khz Function switch position)?
Adjusting the DRIVE control should cause the Marker signal to
increase in strength.

Clean the band switch wafers, all of them, with contact cleaner.
Apply contact cleaner to each band switch wafer and rotate the
switch throughout its travel a couple of times. Use canned air to
remove any/all cleaner residue.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "kd4taw" <danny.boyd@...> wrote:
>
> I have no recieve or transmit on any band,except jjy/wwv.Radio was working perfect until
i took a nap this am.Have no disply also on my DG-5.Radio will key so relays are working.
> Thanks Danny
>

21737. Re: ts-520s no recieve or transmit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-14 17:54:59 UTC
From: w5rkl
Topic: 21735 Message: 21737

Forgot to mention. Check the 9 pin socket on the rear panel. If
the remote VFO-520 is not being used, pins 8 and 9 must be shorted
together in order for the internal VFO to work.

The 520 came from the factory with a black 9 pin plug that shorted
pins 8 and 9. If that's being used, ensure it is fully seated in the
9 pin socket.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "kd4taw" <danny.boyd@...> wrote:
>
> I have no recieve or transmit on any band,except jjy/wwv.Radio was working perfect until
i took a nap this am.Have no disply also on my DG-5.Radio will key so relays are working.
> Thanks Danny
>

21738. Re: ts-520s no recieve or transmit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-14 20:22:49 UTC
From: james27613
Topic: 21735 Message: 21738

Hi Danny,

Mike beat me to it, the 9 pin VFO plug
may have a dirty connection or broken
wire at the plug.

73 james ke4drn

21739. Sliding TS-520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-14 21:00:07 UTC
From: Hector (Luigi) Perez
Topic: 21710 Message: 21739

My good old TS-520S, all of a sudden has given out a bit of its age. This old senior, is giving me some head aches since a couple of days. While transmitting, it slides down to the left or wright. Not been a man with the tech knowledge, I must ask: what seems to be the problem?

[Non-text portions of this message have been removed]

21740. Re: Sliding TS-520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-15 01:38:12 UTC
From: w5rkl
Topic: 21710 Message: 21740

Hello Hector,

I assume what you mean by your 520 "slides", you mean "drifting".
Do you experience the drift in receive as well?

My initial thought is the 9VDC supply on the FIX CH AVR UNIT
needs attention.

Connect a DVM's positive lead to the FIX CH AVR UNIT's terminal
labeled "9" and the negative lead to chassis ground. The voltage
should be 9VDC, +/- .1VDC. If the voltage is not correct, adjust VR1
on the FIX CH AVR UNIT so the voltage is 9VDC on the terminal labeled
"9". The VFO, both internal and external, operate from the 9VDC
supply. If it's not right, the VFO will change frequencies. The 9VDC
supply also provides power to other circuits besides the VFO.

Connect the DVM positive lead to the FIX CH AVR UNIT's "RF1" terminal
and negative lead to chassis ground. The voltage should be 3.3VDC,
+/- .1VDC. If the voltage is not right, adjust VR3 on the FIX CH AVR
UNIT so the voltage is 3.3VDC.

Also, clean all the rotary switches with contact cleaner (Band switch,
MODE switch, and FUNCTION switch).

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Hector \(Luigi\) Perez" <capecuatro@...>
wrote:
>
> My good old TS-520S, all of a sudden has given out a bit of its age. This old senior, is
giving me some head aches since a couple of days. While transmitting, it slides down to the
left or wright. Not been a man with the tech knowledge, I must ask: what seems to be the
problem?
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> [Non-text portions of this message have been removed]
>

21741. ts820s crackling noise coming from speaker

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-15 07:56:16 UTC
From: vk4baz
Topic: 21741 Message: 21741

Hello to the group

I have a weird one for you need to pick your brain,I was aligning the ts 820s and noticed after I had finished tuning ,I started to get heavy static from the receiver ,when I turned the heater switch the sound changes pitch after 15 seconds then the noise quits suddenly ,I recently replaced all the caps and tested each board before moving on to the next,the only caps not replaced yet is the smoothing caps which are on order,

I have had a good look for any broken wires and went back over the tuning I also noticed after the tune my alc is very hard to adjust its either to much or too liitle very differcult to get it right .

what do you reckon

Barry vk4baz

21742. Re: ts820s crackling noise coming from speaker

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-15 10:58:09 UTC
From: w5rkl
Topic: 21741 Message: 21742

Hello Barry,

If turning the heater switch ON and OFF causes the noise to
appear and disappear, most likely one of the tubes is arcing
internally. I suspect the driver tube.

ALC is only created when GRID CURRENT flows in the final tubes. The
only time GRID CURRENT flows in the final tubes is when the
driver's signal is sufficient to cause the final tube grids to be
"positive".

It is quite possible a bad driver tube can be causing your problem.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@...> wrote:
>
>
> Hello to the group
>
> I have a weird one for you need to pick your brain,I was aligning the ts 820s and noticed after I had finished tuning ,I started to get heavy static from the receiver ,when I turned the heater switch the sound changes pitch after 15 seconds then the noise quits suddenly ,I recently replaced all the caps and tested each board before moving on to the next,the only caps not replaced yet is the smoothing caps which are on order,
>
> I have had a good look for any broken wires and went back over the tuning I also noticed after the tune my alc is very hard to adjust its either to much or too liitle very differcult to get it right .
>
> what do you reckon
>
> Barry vk4baz
>

21743. No bias 830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-15 14:10:24 UTC
From: puettgt1
Topic: 21743 Message: 21743

Hi guys

I am unable to sit the bias voltage on my 830. Voltages at rectifer board and final tube pins are within specs except voltage on pins 1 4 6 they are 0 volts rx as they should be but also 0 volts tx. Rear SSG switch is on. Resistors have been replaced on both rectifer an final boards and diodes checked. Voltage at fg pin -113rx tx -82 SG pin 270rx
260 tx H pin 0volts rx tx drive pin 0 volts rx tx. Bias voltage remains 0 when bias pot is adjusted

Thanks Gary KI4QDC

21744. Re: Sliding TS-520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-15 06:43:31 UTC
From: Paul
Topic: 21710 Message: 21744

Hi Hector

I experienced this myself on my old 520 it kept rolling of frequency it would not stay still. What I found out ot was the VFO spindle was worn because of its age and this caused it to drift of frequency. It only happened on certain frequencies/

Paul VK5Fuzz
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Hector \(Luigi\) Perez" capecuatro@ wrote:
> >
> > My good old TS-520S, all of a sudden has given out a bit of its age. This old senior, is giving me some head aches since a couple of days. While transmitting, it slides down to the left or wright. Not been a man with the tech knowledge, I must ask: what seems to be the problem?
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> >
> > [Non-text portions of this message have been removed]
> >
>

21745. Re: No bias 830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-15 17:51:02 UTC
From: w5rkl
Topic: 21743 Message: 21745

Hello Gary,

The bias voltage should vary on the AF UNIT and FINAL UNIT's "FG"
terminals as you adjust the bias pot in transmit. If it does NOT
then connect the volt meter to the AF UNIT's plug 8 pin 3 and
adjust the bias pot. Voltage should vary.

If the bias voltage levels vary at AF UNIT plug 8 pin 3 but not at
the "FG" terminal on the AF and FINAL UNITs when adjusting the bias
pot, then I suspect a bad Q19 on the AF UNIT.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "puettgt1" <Puettgt1@...> wrote:
>
> Hi guys
>
> I am unable to sit the bias voltage on my 830. Voltages at rectifer board and final tube pins are within specs except voltage on pins 1 4 6 they are 0 volts rx as they should be but also 0 volts tx. Rear SSG switch is on. Resistors have been replaced on both rectifer an final boards and diodes checked. Voltage at fg pin -113rx tx -82 SG pin 270rx
> 260 tx H pin 0volts rx tx drive pin 0 volts rx tx. Bias voltage remains 0 when bias pot is adjusted
>
> Thanks Gary KI4QDC
>

21746. TS-830S High IP current

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-15 18:17:54 UTC
From: Gordon
Topic: 21746 Message: 21746

I have a TS-830S here that gives me full output but shows it is running about 300ma of ip current. I am inclined to think that it might be a metering problem as the HV stays up around 800 volts under full load.If I turn the carrier control down so the meter shows 225ma, then the RF output drops down considerably.
I have checked the resistors R6 and R10 on the Finals board, they check fine. Anyone ever run into this problem?

Gordon

21747. Re: No bias 830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-15 18:29:41 UTC
From: puettgt1
Topic: 21743 Message: 21747

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>Thanks Mike

I do have variable voltage at terminal FG

Idle voltage -110

Keyed voltage pot fully counter clockwise -82

Keyed voltage pot fully clockwise -30

S meter at idle points slightly above 0 and deflects left pass 0 when keying, pot adjustment has no effect on S meter reading.

thanks Gary KI4QDC
>
>
>
>
>
> -

21748. Re: TS-830S High IP current

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-15 19:04:27 UTC
From: Dana
Topic: 21746 Message: 21748

Hi Gordon,

I'm kind of a newbie around here, but from what I understand, if resistors R2 through R4 on the final unit are not intact, you will get a high current reading. All four in parallel should read 5 ohms.

73,
-- Dana, KA1WPM

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> I have a TS-830S here that gives me full output but shows it is running about 300ma of ip current. I am inclined to think that it might be a metering problem as the HV stays up around 800 volts under full load.If I turn the carrier control down so the meter shows 225ma, then the RF output drops down considerably.
> I have checked the resistors R6 and R10 on the Finals board, they check fine. Anyone ever run into this problem?
>
> Gordon
>

21749. Re: TS-830S High IP current

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-15 19:07:00 UTC
From: Dana
Topic: 21746 Message: 21749

Sorry, I mean R2 through R5.
-- Dana

--- In TS-520_820_530_830@yahoogroups.com, "Dana" <ka1wpm@...> wrote:
>
> Hi Gordon,
>
> I'm kind of a newbie around here, but from what I understand, if resistors R2 through R4 on the final unit are not intact, you will get a high current reading. All four in parallel should read 5 ohms.
>
> 73,
> -- Dana, KA1WPM
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > I have a TS-830S here that gives me full output but shows it is running about 300ma of ip current. I am inclined to think that it might be a metering problem as the HV stays up around 800 volts under full load.If I turn the carrier control down so the meter shows 225ma, then the RF output drops down considerably.
> > I have checked the resistors R6 and R10 on the Finals board, they check fine. Anyone ever run into this problem?
> >
> > Gordon
> >
>

21750. Re: No bias 830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-15 19:57:54 UTC
From: w5rkl
Topic: 21743 Message: 21750

Gary,

First, in transmit, the meter is no longer an "S" meter. The meter, in transmit, functions as an ALC, IP, RF, or HV meter, depending on the position of the meter switch. The meter functions as an "S" meter ONLY in receive.

If you have variable voltage at both AF and FINAL Unit "FG" terminals then the bias voltage should also be variable at the final tube grids, pin 5.

At this point, do not be concerned about the bias voltage level but rather the final amplifier's "IP" current. Mode switch set to USB or LSB, MIC gain turned completely CCW, and meter switch set to IP, pressing the microphone PTT or flipping the SEND switch up, the IP meter should indicate approximately 60ma. If not then adjust the bias pot and set the idling current to 60ma. The IP current scale is the top scale on the meter. The 830 has to be keyed in order for the IP meter to indicate idling current.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "puettgt1" <Puettgt1@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >Thanks Mike
> >
> I do have variable voltage at terminal FG
> >
> Idle voltage -110
> >
> Keyed voltage pot fully counter clockwise -82
> >
> Keyed voltage pot fully clockwise -30
> >
> S meter at idle points slightly above 0 and deflects left pass 0 when
> keying, pot adjustment has no effect on S meter reading.
> >
> >
> thanks Gary KI4QDC
> >
> >
> >
> >
> >
> >
> > -

>

21751. Re: TS-830S High IP current

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-15 19:59:42 UTC
From: Gordon
Topic: 21746 Message: 21751

--- In TS-520_820_530_830@yahoogroups.com, "Dana" <ka1wpm@...> wrote:
>
> Hi Gordon,
>
> I'm kind of a newbie around here, but from what I understand, if resistors R2 through R4 on the final unit are not intact, you will get a high current reading. All four in parallel should read 5 ohms.
>
> 73,
> -- Dana, KA1WPM
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > I have a TS-830S here that gives me full output but shows it is running about 300ma of ip current. I am inclined to think that it might be a metering problem as the HV stays up around 800 volts under full load.If I turn the carrier control down so the meter shows 225ma, then the RF output drops down considerably.
> > I have checked the resistors R6 and R10 on the Finals board, they check fine. Anyone ever run into this problem?
> >
> > Gordon
> >
>
You're right Dana. Don't know how I overlooked that. I measured the resistors, they all measured over 35 ohms but looked perfect to the eye. I should have known that.. Senior Moment day hi hi..

73,
Gordon

21752. TS-830 mic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-15 22:24:14 UTC
From: Steve
Topic: 21752 Message: 21752

Hello all,

This is my first post, i have been doing alot of reading and found some fantastic info. Im new to the kenwood scene, i did have a 940 once but that spent more time with the tech than me !!
Now ive just purchased an 830s and it has no mic, so im after something i can use on it that will be good for some ragchew.

I think its meant to have an mc-35 or mc-50 but what else is out there that will work just as well if not better than standard mics.

Also if anyone out there has a mic they dont need because you have parted out your rig and dont mind shipping to VK let me know.

Cheers.

Steve.

21753. Re: No bias 830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-15 22:33:40 UTC
From: puettgt1
Topic: 21743 Message: 21753

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>Mike
We do have voltage at pin 5. However we do not have voltage at pins 1 4 6 during transmit. The IP meter deflects left below 0 when PTT is pushed and bias pot has no effect. I have double and triple checked all controls to make sure they are properly set. Thanks again for all your help

Gary
>
> > >
> > >
> > >
> > >
> > >
> > > -
> >
>

21754. Re: [TS-520_820_530_830] TS-830 mic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-15 22:44:44 UTC
From: martin
Topic: 21752 Message: 21754

Hi Steve. The original Kenwood mics are hard to beat. An MC-50 or a Shure 444 are probably your best bet for a desk mic. An MC-60 will also work. The Kenwood Hybrid radios seem to have good transmit audio with just about any decent mic. An Astatic D-104 will work also, but will need to be modified for the best sound. Also, I have found that you need a pretty quiet room to use an amplified mic. Even when turned way down, they tend to pick up the slightest sound.

TTYL

Steve wrote:
> Hello all,
>
> This is my first post, i have been doing alot of reading and found
> some fantastic info. Im new to the kenwood scene, i did have a 940
> once but that spent more time with the tech than me !! Now ive just
> purchased an 830s and it has no mic, so im after something i can
> use on it that will be good for some ragchew.
>
> I think its meant to have an mc-35 or mc-50 but what else is out
> there that will work just as well if not better than standard mics.
>
>
> Also if anyone out there has a mic they dont need because you have
> parted out your rig and dont mind shipping to VK let me know.
>
> Cheers.
>
> Steve.
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at http://www.defectivebydesign.org/what_is_drm"

21755. Re: [TS-520_820_530_830] TS-830 mic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-16 01:04:13 UTC
From: Dave ve3wej
Topic: 21752 Message: 21755

if you can find the kenwood adapter model "mj-84" , you could then use the hand mike from the 940, or whatever mike you are using.

I use one here, and never any problems with it.

you could also make one by using 8 pin inline male to 4 pin with a short mike (shielded cable)

Dave Garber
VE3IE

----- Original Message -----
From: "Steve" <steve05@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, July 15, 2009 6:24 PM
Subject: [TS-520_820_530_830] TS-830 mic

> Hello all,
>
> This is my first post, i have been doing alot of reading and found some
> fantastic info. Im new to the kenwood scene, i did have a 940 once but
> that spent more time with the tech than me !!
> Now ive just purchased an 830s and it has no mic, so im after something i
> can use on it that will be good for some ragchew.
>
> I think its meant to have an mc-35 or mc-50 but what else is out there
> that will work just as well if not better than standard mics.
>
> Also if anyone out there has a mic they dont need because you have parted
> out your rig and dont mind shipping to VK let me know.
>
> Cheers.
>
> Steve.
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

21756. Fwd: [TS-520_820_530_830] TS-830 mic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-16 02:09:40 UTC
From: kc2aup@arrl.net
Topic: 21756 Message: 21756

I have one also and I use a D-104 (amplified) with the 10DA head on it.
Audio reports are very good. I got mine at a Hamfest for almost nothing...

From: steve05@...
Reply-to: TS-520_820_530_830@yahoogroups.com
To: TS-520_820_530_830@yahoogroups.com
Sent: 7/15/2009 6:29:26 P.M. Eastern Daylight Time
Subj: [TS-520_820_530_830] TS-830 mic

Hello all,

This is my first post, i have been doing alot of reading and found some
fantastic info. Im new to the kenwood scene, i did have a 940 once but that
spent more time with the tech than me !!
Now ive just purchased an 830s and it has no mic, so im after something i
can use on it that will be good for some ragchew.

I think its meant to have an mc-35 or mc-50 but what else is out there
that will work just as well if not better than standard mics.

Also if anyone out there has a mic they dont need because you have parted
out your rig and dont mind shipping to VK let me know.

Cheers.

Steve.

Yahoo! Groups Links

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slove00000001)

[Non-text portions of this message have been removed]

21757. Re: [TS-520_820_530_830] TS-830 mic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-16 02:11:49 UTC
From: Hector (Luigi) Perez
Topic: 21752 Message: 21757

I bought a simple CB Mic, an Aries 520 and folks that had heard me claims it sounds great on my 820.

Good luck

Hector NP4FW

--- On Wed, 7/15/09, Dave ve3wej <ve3wej@...> wrote:

From: Dave ve3wej <ve3wej@gmail.com>
Subject: Re: [TS-520_820_530_830] TS-830 mic
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, July 15, 2009, 10:04 PM

if you can find the kenwood adapter model "mj-84" , you could then use the hand mike from the 940, or whatever mike you are using.

I use one here, and never any problems with it.

you could also make one by using 8 pin inline male to 4 pin with a short mike (shielded cable)

Dave Garber
VE3IE

----- Original Message -----
From: "Steve" <steve05@dodo. com.au>
To: <TS-520_820_530_ 830@yahoogroups. com>
Sent: Wednesday, July 15, 2009 6:24 PM
Subject: [TS-520_820_ 530_830] TS-830 mic

> Hello all,
>
> This is my first post, i have been doing alot of reading and found some
> fantastic info. Im new to the kenwood scene, i did have a 940 once but
> that spent more time with the tech than me !!
> Now ive just purchased an 830s and it has no mic, so im after something i
> can use on it that will be good for some ragchew.
>
> I think its meant to have an mc-35 or mc-50 but what else is out there
> that will work just as well if not better than standard mics.
>
> Also if anyone out there has a mic they dont need because you have parted
> out your rig and dont mind shipping to VK let me know.
>
> Cheers.
>

> Steve.
>
>
>
> ------------ --------- --------- ------
>
> Yahoo! Groups Links
>
>
>

[Non-text portions of this message have been removed]

21758. External Match "Tuner"

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-16 02:14:40 UTC
From: L Kendall
Topic: 21752 Message: 21758

Is it OK to use an "auto tuner" matching network such as the AT-200 with vacuum tube finals on radios such as the TS-830-S--all other things being equal?

It seems to me it would not matter, but this is my first use of a tube rig, and you know what happens when we "assume."

TIA 73 Larry K5END

[Non-text portions of this message have been removed]

21759. Re: Fwd: [TS-520_820_530_830] TS-830 mic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-16 02:21:54 UTC
From: John Davidson
Topic: 21756 Message: 21759

I have been using a Realistic (radio shack) hand mic with a pre-amp in it on my TS520 .
I bought the rig new and it came without a mic. Had the hand mic in a junk box and wired it up with the 4 pin connector. It sounded ok.
It is currently in a desk drawer some where.
I'm sure it's battery is long dead. I should get it out and check the battery contacts and clean it up.
I have my Hallicrafters W9TO keyer and a J-38 connected to the 520 and use it almost every day on CW.

--- On Wed, 7/15/09, kc2aup@... <kc2aup@...> wrote:

From: kc2aup@... <kc2aup@...>
Subject: Fwd: [TS-520_820_530_830] TS-830 mic
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, July 15, 2009, 10:09 PM

I have one also and I use a D-104 (amplified) with the 10DA head on it.
Audio reports are very good. I got mine at a Hamfest for almost nothing...

---------- --------- --------- ------
From: steve05@dodo. com.au
Reply-to: TS-520_820_530_ 830@yahoogroups. com
To: TS-520_820_530_ 830@yahoogroups. com
Sent: 7/15/2009 6:29:26 P.M. Eastern Daylight Time
Subj: [TS-520_820_ 530_830] TS-830 mic

Hello all,

This is my first post, i have been doing alot of reading and found some
fantastic info. Im new to the kenwood scene, i did have a 940 once but that
spent more time with the tech than me !!
Now ive just purchased an 830s and it has no mic, so im after something i
can use on it that will be good for some ragchew.

I think its meant to have an mc-35 or mc-50 but what else is out there
that will work just as well if not better than standard mics.

Also if anyone out there has a mic they dont need because you have parted
out your rig and dont mind shipping to VK let me know.

Cheers.

Steve.

------------ --------- --------- ------

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?ncid=emlweu
slove00000001)

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

21760. Re: [TS-520_820_530_830] External Match "Tuner"

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-16 06:21:11 UTC
From: Gordon JC Pearce
Topic: 21752 Message: 21760

On Wed, 2009-07-15 at 21:14 -0500, L Kendall wrote:
> Is it OK to use an "auto tuner" matching network such as the AT-200 with
> vacuum tube finals on radios such as the TS-830-S--all other things
> being equal?
>
> It seems to me it would not matter, but this is my first use of a tube
> rig, and you know what happens when we "assume."
>
> TIA 73 Larry K5END

Yes, it's perfectly okay. Bear in mind that the PA uses a pi network to match the high impedance at the anode of the valves to the low impedance load of the antenna, which is basically a slightly special case of ATU. So, all by itself, a hybrid rig can load up into a somewhat mismatched antenna. This would be a "not quite right" antenna, rather than "entirely wrong band" antenna, though - it won't work miracles ;-)

Gordon 2M0YEQ

21761. Re: ts820s crackling noise coming from speaker

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-16 11:09:17 UTC
From: vk4baz
Topic: 21741 Message: 21761

Mike,

What I found it to be was when I purchased this rig it look like someone has had the rf board out ,when they put it back they put it back the wrong way up stream of the holding screw instead of downstream so with movement it shorted the frame onto the circuit board ,now I am worried It has blown something because my Alc is gone the driver tube is new, Thats why it sounded like arching in the receiver I only saw the sparks when moving the radio frame about thus the smell as well ,would this blow the driver tube as I replaced it twice, I am a not happy jan right now,what do you think

Barry vk4baz

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello Barry,
>
> If turning the heater switch ON and OFF causes the noise to
> appear and disappear, most likely one of the tubes is arcing
> internally. I suspect the driver tube.
>
> ALC is only created when GRID CURRENT flows in the final tubes. The
> only time GRID CURRENT flows in the final tubes is when the
> driver's signal is sufficient to cause the final tube grids to be
> "positive".
>
> It is quite possible a bad driver tube can be causing your problem.
>
>
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@> wrote:
> >
> >
> > Hello to the group
> >
> > I have a weird one for you need to pick your brain,I was aligning the ts 820s and
noticed after I had finished tuning ,I started to get heavy static from the receiver ,when
I turned the heater switch the sound changes pitch after 15 seconds then the noise quits
suddenly ,I recently replaced all the caps and tested each board before moving on to the
next,the only caps not replaced yet is the smoothing caps which are on order,
> >
> > I have had a good look for any broken wires and went back over the tuning I also
noticed after the tune my alc is very hard to adjust its either to much or too liitle very
differcult to get it right .
> >

> > what do you reckon
> >
> > Barry vk4baz
> >
>

21762. Re: External Match "Tuner"

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-16 14:37:16 UTC
From: w5rkl
Topic: 21752 Message: 21762

The type of final amplifier, solid state broadband verses
adjustable tube PI Network, has nothing to do with the type of
tuner, auto verses manual, that can be used. ALL exciter have the
same 50 to 75 ohm unbalanced coax output!

All tuners have a maximum power rating and this rating must never be
exceeded! The AT-200 has a maximum power rating of 200 watts, SSB
and CW, on HF (1.8Mhz to 30Mhz) and 100 watts on 6 meters. Therefore,
the AT-200 can be used with "any" exciter, solid state of tube type,
providing the maximum power rating is not exceeded.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce <gordon@...> wrote:
>
> On Wed, 2009-07-15 at 21:14 -0500, L Kendall wrote:
> > Is it OK to use an "auto tuner" matching network such as the AT-200 with
> > vacuum tube finals on radios such as the TS-830-S--all other things
> > being equal?
> >
> > It seems to me it would not matter, but this is my first use of a tube
> > rig, and you know what happens when we "assume."
> >
> > TIA 73 Larry K5END
>
> Yes, it's perfectly okay. Bear in mind that the PA uses a pi network to
> match the high impedance at the anode of the valves to the low impedance
> load of the antenna, which is basically a slightly special case of ATU.
> So, all by itself, a hybrid rig can load up into a somewhat mismatched
> antenna. This would be a "not quite right" antenna, rather than
> "entirely wrong band" antenna, though - it won't work miracles ;-)
>
> Gordon 2M0YEQ
>

21763. Tune Switch Inop

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-16 13:12:43 UTC
From: L K
Topic: 21763 Message: 21763

The "Tune" switch on my "new" TS-830S doesn't work.

I was told I can tune it now, "as is," by lowering the "Car" setting and keying manually. Eventually I will repair the "Tune" function, but I'd like to use it for CW tonight.

As I understand it, the "Tune" switch lowers the screen grid voltage to reduce current/power in the finals.

Does the "Car" setting also adjust the screen grid, or what does it do, exactly?

I don't have a detailed schematic of the power section, just a block diagram in the owner's manual.

TIA, and pardon what I think is likely a question of basics. All my "tube" experience is in building audio (guitar) amps. So, RF "hollow state" is a new candy store for me!

73 K5END

21764. RE: [TS-520_820_530_830] External Match "Tuner"

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-16 13:12:47 UTC
From: L K
Topic: 21752 Message: 21764

Thanks, Gordon

73

LK K5END

-----Original Message-----
From: "Gordon JC Pearce" <gordon@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: 7/16/2009 1:21 AM
Subject: Re: [TS-520_820_530_830] External Match "Tuner"

On Wed, 2009-07-15 at 21:14 -0500, L Kendall wrote:
> Is it OK to use an "auto tuner" matching network such as the AT-200 with
> vacuum tube finals on radios such as the TS-830-S--all other things
> being equal?
>
> It seems to me it would not matter, but this is my first use of a tube
> rig, and you know what happens when we "assume."
>
> TIA 73 Larry K5END

Yes, it's perfectly okay. Bear in mind that the PA uses a pi network to
match the high impedance at the anode of the valves to the low impedance
load of the antenna, which is basically a slightly special case of ATU.
So, all by itself, a hybrid rig can load up into a somewhat mismatched
antenna. This would be a "not quite right" antenna, rather than
"entirely wrong band" antenna, though - it won't work miracles ;-)

Gordon 2M0YEQ

Yahoo! Groups Links

21765. TS 520S for sale in S.New Hampshire

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-16 14:51:01 UTC
From: bostonkevino
Topic: 21765 Message: 21765

Hi All,

I have to make some room here in the shack (and pay for some new gear), so my TS 520S is up for grabs. Included is the transceiver and a newly installed set of 6146W's, a DG-5 digital display with cables, and an SP-31 external speaker - all are cosmetically good, and function correctly. There is no mic included in the sale.

I also have an older MFJ 949 (B series) Deluxe Versa tuner which I will include. The tuner meter has been working erratically, so it may need some TLC to get into perfect working order - it has a built-in dummy load.

I will sell for $300.00 plus cost of double boxed UPS ground shipping to anywhere in CONUS.

Please email with questions anytime - I put this on QRZ yesterday and have an offer for my asking price (minus shipping) so if no one here is interested it will likely be sold tomorrow. Payment by PayPal only.

Best, and 73!

KB1SMG

Email: KB1SMG@GMail.com

21766. Re: Tune Switch Inop

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-16 17:39:55 UTC
From: w5rkl
Topic: 21763 Message: 21766

"tune as is by varying the CAR control"

Although it is possible to tune the 830 in CW mode using the CAR control to reduce the drive to the final amplifier, advising someone to use CW mode to get around a problem is vary bad advice! I do NOT recommend using CW mode to tune the 830! If there is a problem in TUNE mode then I recommend getting it fixed before operating the 830.

Your problem appears to be caused by bad resistors R15 and R16 on the Rectifier Unit. Replacing both resistors should fix your TUNE mode problem. Of course, that's assuming everything else is working as it should.

The CAR control, controls the 830's output in TUNE and CW mode by varying a DC voltage applied to the Balance Modulator on the IF UNIT not by varying the screen voltage to the final tubes. The CAR control ONLY functions in TUNE and CW mode, NEVER in USB or LSB mode.

Mike W5RKL

--- In TS-520_820_ 530_830@yahoogroups.com, L K <k5end@...> wrote:
>
>
> The "Tune" switch on my "new" TS-830S doesn't work.
>
> I was told I can tune it now, "as is," by lowering the "Car" setting and keying manually. Eventually I will repair the "Tune" function, but I'd like to use it for CW tonight.
>
> As I understand it, the "Tune" switch lowers the screen grid voltage to reduce current/power in the finals.
>
> Does the "Car" setting also adjust the screen grid, or what does it do, exactly?
>
> I don't have a detailed schematic of the power section, just a block diagram in the owner's manual.
>
> TIA, and pardon what I think is likely a question of basics. All my "tube" experience is in building audio (guitar) amps. So, RF "hollow state" is a new candy store for me!
>
> 73 K5END
>

21767. Re: ts820s crackling noise coming from speaker

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-16 17:58:06 UTC
From: w5rkl
Topic: 21741 Message: 21767

Barry,

I'm confused as to what your term "RF BOARD" means? Are you talking
about the RF UNIT, the board with the driver tube?

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@...> wrote:
>
> Mike,
>
> What I found it to be was when I purchased this rig it look like someone has had the rf board out ,when they put it back they put it back the wrong way up stream of the holding screw instead of downstream so with movement it shorted the frame onto the circuit board ,now I am worried It has blown something because my Alc is gone the driver tube is new, Thats why it sounded like arching in the receiver I only saw the sparks when moving the radio frame about thus the smell as well ,would this blow the driver tube as I replaced it twice, I am a not happy jan right now,what do you think
>
> Barry vk4baz
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Hello Barry,
> >
> > If turning the heater switch ON and OFF causes the noise to
> > appear and disappear, most likely one of the tubes is arcing
> > internally. I suspect the driver tube.
> >
> > ALC is only created when GRID CURRENT flows in the final tubes. The
> > only time GRID CURRENT flows in the final tubes is when the
> > driver's signal is sufficient to cause the final tube grids to be
> > "positive".
> >
> > It is quite possible a bad driver tube can be causing your problem.
> >
> >
> > Mike W5RKL
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@> wrote:
> > >
> > >
> > > Hello to the group

> > >
> > > I have a weird one for you need to pick your brain,I was aligning the ts 820s and noticed after I had finished tuning ,I started to get heavy static from the receiver ,when I turned the heater switch the sound changes pitch after 15 seconds then the noise quits suddenly ,I recently replaced all the caps and tested each board before moving on to the next,the only caps not replaced yet is the smoothing caps which are on order,
> > >
> > > I have had a good look for any broken wires and went back over the tuning I also noticed after the tune my alc is very hard to adjust its either to much or too liitle very differcult to get it right .
> > >
> > > what do you reckon
> > >
> > > Barry vk4baz
> > >
> >
>

21768. RE: [TS-520_820_530_830] Re: Tune Switch Inop

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-16 18:19:44 UTC
From: L K
Topic: 21763 Message: 21768

Mike,

Do you have a detailed schematic or know where I can get a service manual for the 830?

LK

-----Original Message-----
From: "w5rkl" <w5rkl@yahoo.com>
To: TS-520_820_530_830@yahoogroups.com
Sent: 7/16/2009 12:39 PM
Subject: [TS-520_820_530_830] Re: Tune Switch Inop

"tune as is by varying the CAR control"

Although it is possible to tune the 830 in CW mode using the CAR control to reduce the drive to the final amplifier, advising someone to use CW mode to get around a problem is vary bad advice! I do NOT recommend using CW mode to tune the 830! If there is a problem in TUNE mode then I recommend getting it fixed before operating the 830.

Your problem appears to be caused by bad resistors R15 and R16 on the Rectifier Unit. Replacing both resistors should fix your TUNE mode problem. Of course, that's assuming everything else is working as it should.

The CAR control, controls the 830's output in TUNE and CW mode by varying a DC voltage applied to the Balance Modulator on the IF UNIT not by varying the screen voltage to the final tubes. The CAR control ONLY functions in TUNE and CW mode, NEVER in USB or LSB mode.

Mike W5RKL

--- In TS-520_820_ 530_830@yahoogroups.com, L K <k5end@...> wrote:
>
>
> The "Tune" switch on my "new" TS-830S doesn't work.
>
> I was told I can tune it now, "as is," by lowering the "Car" setting and keying manually. Eventually I will repair the "Tune" function, but I'd like to use it for CW tonight.
>
> As I understand it, the "Tune" switch lowers the screen grid voltage to reduce current/power in the finals.
>
> Does the "Car" setting also adjust the screen grid, or what does it do, exactly?
>
> I don't have a detailed schematic of the power section, just a block diagram in the

owner's manual.
>
> TIA, and pardon what I think is likely a question of basics. All my "tube" experience is in building audio (guitar) amps. So, RF "hollow state" is a new candy store for me!
>
> 73 K5END
>

Yahoo! Groups Links

21769. Re: Tune Switch Inop

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-16 21:11:48 UTC
From: w5rkl
Topic: 21763 Message: 21769

LK,

You can download the operating and service manuals at n6wk's website:

http://www.n6wk.com/kenwood/

Simply scroll down the page and click on the link for the desired manual and high resolution 830 schematic.

The problem you described with your TS-830 is typical of R15 and R16 resistor failure on the Rectifier Unit.

Remove all power from the 830 and that includes the power cable!

The Rectifier Unit is located on the bottom of the 830.

Remove the top and bottom covers, turn the 830 upside down with the front panel facing you. You will notice the bottom of the power transformer and a PC board to the "left". The PC board is the "Rectifier Unit".

Resistors R15 and R16 are 56K 1/2 watt resistors with color bands of GREEN BLUE ORANGE. The colored bands may be difficult to read. Download the 830's service manual and turn to page 11. There you will find a picture of the Rectifier Unit in the upper right corner of the page.

R15 is mounted between the relay and terminals "SG2", "TUNE", and "14". R16 is mounted at right angles of R15 next to the relay.

I recommend replacing both resistors with new metal film resistors available at most electronic parts outlet on the Internet. I use Mouser.

If all this seems to be a big much for you to take on, find a local ham who has experience in this type of diagnosing and repair work. You don't want to mess up the board and cause more problems than you already have. There's no shame in having someone else help you fix your problem! That's how you learn, having someone show you.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, L K <k5end@...> wrote:
>
> Mike,
>
> Do you have a detailed schematic or know where I can get a service manual for the 830?

>
> LK
>
> -----Original Message-----
> From: "w5rkl" <w5rkl@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: 7/16/2009 12:39 PM
> Subject: [TS-520_820_530_830] Re: Tune Switch Inop
>
> "tune as is by varying the CAR control"
>
> Although it is possible to tune the 830 in CW mode using the CAR
> control to reduce the drive to the final amplifier, advising someone
> to use CW mode to get around a problem is vary bad advice! I do NOT
> recommend using CW mode to tune the 830! If there is a problem in
> TUNE mode then I recommend getting it fixed before operating the
> 830.
>
> Your problem appears to be caused by bad resistors R15 and R16 on
> the Rectifier Unit. Replacing both resistors should fix your TUNE
> mode problem. Of course, that's assuming everything else is working
> as it should.
>
> The CAR control, controls the 830's output in TUNE and CW mode by
> varying a DC voltage applied to the Balance Modulator on the
> IF UNIT not by varying the screen voltage to the final tubes. The CAR
> control ONLY functions in TUNE and CW mode, NEVER in USB or LSB mode.
>
> Mike W5RKL
>
>
>
>
>
>
>
> --- In TS-520_820_ 530_830@yahoogroups.com, L K <k5end@> wrote:
> >
> >
> > The "Tune" switch on my "new" TS-830S doesn't work.
> >
> > I was told I can tune it now, "as is," by lowering the "Car" setting and keying
manually. Eventually I will repair the "Tune" function, but I'd like to use it for CW
tonight.
> >
> > As I understand it, the "Tune" switch lowers the screen grid voltage to reduce
current/power in the finals.
> >
> > Does the "Car" setting also adjust the screen grid, or what does it do, exactly?
> >
> > I don't have a detailed schematic of the power section, just a block diagram in the

owner's manual.
> >
> > TIA, and pardon what I think is likely a question of basics. All my "tube" experience is in building audio (guitar) amps. So, RF "hollow state" is a new candy store for me!
> >
> > 73 K5END
> >
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>

21770. Re: Tune Switch Inop

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-16 21:19:40 UTC
From: w5rkl
Topic: 21763 Message: 21770

Just in case my description is a bit difficult to follow,
R15 is mounted on the PC and connects between the "SG2" and "TUNE"
foil terminals. R16 is mounted to the PC board with one lead
connected to the "TUNE" PC foil and the other lead connected to the
ground foil.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> LK,
>
> You can download the operating and service manuals at n6wk's
> website:
>
> http://www.n6wk.com/kenwood/
>
> Simply scroll down the page and click on the link for the desired
> manual and high resolution 830 schematic.
>
> The problem you described with your TS-830 is typical of R15 and R16
> resistor failure on the Rectifier Unit.
>
> Remove all power from the 830 and that includes the power cable!
>
> The Rectifier Unit is located on the bottom of the 830.
>
> Remove the top and bottom covers, turn the 830 upside down with the
> front panel facing you. You will notice the bottom of the power
> transformer and a PC board to the "left". The PC board is the
> "Rectifier Unit".
>
> Resistors R15 and R16 are 56K 1/2 watt resistors with color bands of
> GREEN BLUE ORANGE. The colored bands may be difficult to read.
> Download the 830's service manual and turn to page 11. There you
> will find a picture of the Rectifier Unit in the upper right corner
> of the page.
>
> R15 is mounted between the relay and terminals "SG2", "TUNE", and
> "14". R16 is mounted at right angles of R15 next to the relay.
>
> I recommend replacing both resistors with new metal film resistors
> available at most electronic parts outlet on the Internet. I use
> Mouser.
>

> If all this seems to be a big much for you to take on, find a local
> ham who has experience in this type of diagnosing and repair work.
> You don't want to mess up the board and cause more problems than
> you already have. There's no shame in having someone else help you
> fix your problem! That's how you learn, having someone show you.
>
>
>
> Mike W5RKL
>
>
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, L K <k5end@> wrote:
> >
> > Mike,
> >
> > Do you have a detailed schematic or know where I can get a service manual for the 830?
> >
> > LK
> >
> > -----Original Message-----
> > From: "w5rkl" <w5rkl@>
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: 7/16/2009 12:39 PM
> > Subject: [TS-520_820_530_830] Re: Tune Switch Inop
> >
> > "tune as is by varying the CAR control"
> >
> > Although it is possible to tune the 830 in CW mode using the CAR
> > control to reduce the drive to the final amplifier, advising someone
> > to use CW mode to get around a problem is vary bad advice! I do NOT
> > recommend using CW mode to tune the 830! If there is a problem in
> > TUNE mode then I recommend getting it fixed before operating the
> > 830.
> >
> > Your problem appears to be caused by bad resistors R15 and R16 on
> > the Rectifier Unit. Replacing both resistors should fix your TUNE
> > mode problem. Of course, that's assuming everything else is working
> > as it should.
> >
> > The CAR control, controls the 830's output in TUNE and CW mode by
> > varying a DC voltage applied to the Balance Modulator on the
> > IF UNIT not by varying the screen voltage to the final tubes. The CAR
> > control ONLY functions in TUNE and CW mode, NEVER in USB or LSB mode.
> >
> > Mike W5RKL
> >

> >
> >
> >
> >
> >
> > --- In TS-520_820_ 530_830@yahoogroups.com, L K <k5end@> wrote:
> > >
> > >
> > > The "Tune" switch on my "new" TS-830S doesn't work.
> > >
> > > I was told I can tune it now, "as is," by lowering the "Car" setting and keying manually. Eventually I will repair the "Tune" function, but I'd like to use it for CW tonight.
> > >
> > > As I understand it, the "Tune" switch lowers the screen grid voltage to reduce current/power in the finals.
> > >
> > > Does the "Car" setting also adjust the screen grid, or what does it do, exactly?
> > >
> > > I don't have a detailed schematic of the power section, just a block diagram in the owner's manual.
> > >
> > > TIA, and pardon what I think is likely a question of basics. All my "tube" experience is in building audio (guitar) amps. So, RF "hollow state" is a new candy store for me!
> > >
> > > 73 K5END
> > >
> >
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
>

21771. Need TS 830 S IF Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-16 21:32:50 UTC
From: dennis_tilton
Topic: 21771 Message: 21771

My trusty TS830S receive died! The problem is that L12, the 455 kH IF transformer is shorted. This can is located next to Q8.
Does anyone have an IF board they would be willing to part with?

Please let me know what you want for it and I will respond immediatly.

Thanks and 73,
Dennis AD7TV

21772. Re: [TS-520_820_530_830] Need TS 830 S IF Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-16 23:25:46 UTC
From: Lou Blasco
Topic: 21771 Message: 21772

Hi Dennis,

If you're sure that it's just a 455KHz transformer you could pull one
out of a broadcast receiver to get you going again. Also Ken K4EAA
might have replacement boards and parts. Contact him by email ken@...

Regards

Lou
VK3ALB

At 07:32 AM 17/07/2009, you wrote:
>My trusty TS830S receive died! The problem is that L12, the 455 kH
>IF transformer is shorted. This can is located next to Q8.
>Does anyone have an IF board they would be willing to part with?
>
>Please let me know what you want for it and I will respond immediatly.
>
>Thanks and 73,
>Dennis AD7TV
>
>
>
>------------------------------------
>
>Yahoo! Groups Links
>
>
>

21773. Re: Tune switch

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-16 22:36:52 UTC
From: L K
Topic: 21773 Message: 21773

"...TS-830 is typical of R15 and R16
resistor failure on the Rectifier Unit."

Thanks for the link and the detailed info from your experience, Mike.

You've probably saved me a lot of time troubleshooting. I'll let you know how it works out or if I find anything unusual, if you like. I'll probably do this tonight. I think I have those sized resistors in metal film flavor in my home shop.

TKS 73
Larry - K5END

21774. Manuals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-16 23:59:31 UTC
From: Paul
Topic: 4788 Message: 21774

Hi There
If anyone is looking for manuals for there transceivers look up
Mods.dk there you will find manuals for most radios.

Paul VK5FUZZ

21775. Mic for my 520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-17 01:15:41 UTC
From: Bob Singer
Topic: 21775 Message: 21775

Will a Astatic D-104 mic with the G stand (4 pin) with my 520S?
Thanks. Bob

21776. Re: Mic for my 520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-17 01:57:52 UTC
From: w5rkl
Topic: 21775 Message: 21776

Hello Bob,

Yes, providing the 4 pin microphone plug is wired properly.

If you need help wiring the D-104 and G stand, you can download
the D-104's wiring at the following website:

http://www.qsl.net/wa2mzf/d104.html

The Microphone hot and PTT hot leads should NOT share the same ground
return. Refer to the 520's operators manual for details on wiring
microphones for use with the 520.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Bob Singer <aztrooper@...> wrote:
>
> Will a Astatic D-104 mic with the G stand (4 pin) with my 520S?
> Thanks. Bob
>

21777. Re: [TS-520_820_530_830] Re: Tune Switch Inop

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-17 03:05:20 UTC
From: John Davidson
Topic: 21763 Message: 21777

I Never have used the "tune" setting on my TS520.except when the rig was new and I wanted to see how all the controls worked !
If you don't know how to tune a tube final, it maybe a necessary setting if you take forever to dip the plate current.
By the way, my TS520 is on it's second set of finals after nearly 40 years of daily use.

--- On Thu, 7/16/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: Tune Switch Inop
To: TS-520_820_530_830@yahoogroups.com
Date: Thursday, July 16, 2009, 1:39 PM

"tune as is by varying the CAR control"

Although it is possible to tune the 830 in CW mode using the CAR control to reduce the drive to the final amplifier, advising someone to use CW mode to get around a problem is vary bad advice! I do NOT recommend using CW mode to tune the 830! If there is a problem in TUNE mode then I recommend getting it fixed before operating the 830.

Your problem appears to be caused by bad resistors R15 and R16 on the Rectifier Unit. Replacing both resistors should fix your TUNE mode problem. Of course, that's assuming everything else is working as it should.

The CAR control, controls the 830's output in TUNE and CW mode by varying a DC voltage applied to the Balance Modulator on the IF UNIT not by varying the screen voltage to the final tubes. The CAR control ONLY functions in TUNE and CW mode, NEVER in USB or LSB mode.

Mike W5RKL

--- In TS-520_820_ 530_830@yahoogroups .com, L K <k5end@...> wrote:
>
>
> The "Tune" switch on my "new" TS-830S doesn't work.
>
> I was told I can tune it now, "as is," by lowering the "Car" setting and keying manually. Eventually I will repair the "Tune" function, but I'd like to use it for CW tonight.
>
> As I understand it, the "Tune" switch lowers the screen grid voltage to reduce current/power in the finals.
>
> Does the "Car" setting also adjust the screen grid, or what does it do, exactly?
>

> I don't have a detailed schematic of the power section, just a block diagram in the owner's manual.
>
> TIA, and pardon what I think is likely a question of basics. All my "tube" experience is in building audio (guitar) amps. So, RF "hollow state" is a new candy store for me!
>
> 73 K5END
>

[Non-text portions of this message have been removed]

21778. Re: [TS-520_820_530_830] Re: Mic for my 520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-17 02:04:44 UTC
From: Bob Singer
Topic: 21775 Message: 21778

No impedance problems? Bob

w5rkl wrote:
>
>
> Hello Bob,
>
> Yes, providing the 4 pin microphone plug is wired properly.
>
> If you need help wiring the D-104 and G stand, you can download
> the D-104's wiring at the following website:
>
> http://www.qsl.net/wa2mzf/d104.html <http://www.qsl.net/wa2mzf/d104.html>
>
> The Microphone hot and PTT hot leads should NOT share the same ground
> return. Refer to the 520's operators manual for details on wiring
> microphones for use with the 520.
>
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, Bob Singer
> <aztrooper@...> wrote:
> >
> > Will a Astatic D-104 mic with the G stand (4 pin) with my 520S?
> > Thanks. Bob
> >
>
>

21779. Re: [TS-520_820_530_830] External Match "Tuner"

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-17 03:22:45 UTC
From: John Davidson
Topic: 21752 Message: 21779

Keep in mind the loading changes at your final when you adjust the tuner will likely cause overcurrent of the final plates unless you start by lo0ading into a dummy load on CW and then turn down the carrier control until you just have enough output to see movement on your SWR meter to tune the antenna. After you have SWR tuned out, you must retune the plate and loading on the rig rig slightly (after turning the carrier control back up)./.
73....JD

--- On Thu, 7/16/09, Gordon JC Pearce <gordon@...> wrote:

From: Gordon JC Pearce <gordon@...>
Subject: Re: [TS-520_820_530_830] External Match "Tuner"
To: TS-520_820_530_830@yahoogroups.com
Date: Thursday, July 16, 2009, 2:21 AM

On Wed, 2009-07-15 at 21:14 -0500, L Kendall wrote:
> Is it OK to use an "auto tuner" matching network such as the AT-200 with
> vacuum tube finals on radios such as the TS-830-S--all other things
> being equal?
>
> It seems to me it would not matter, but this is my first use of a tube
> rig, and you know what happens when we "assume."
>
> TIA 73 Larry K5END

Yes, it's perfectly okay. Bear in mind that the PA uses a pi network to
match the high impedance at the anode of the valves to the low impedance
load of the antenna, which is basically a slightly special case of ATU.
So, all by itself, a hybrid rig can load up into a somewhat mismatched
antenna. This would be a "not quite right" antenna, rather than
"entirely wrong band" antenna, though - it won't work miracles ;-)

Gordon 2M0YEQ

[Non-text portions of this message have been removed]

21780. Re: [TS-520_820_530_830] Re: Tune Switch Inop

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-17 04:12:53 UTC
From: L K
Topic: 21763 Message: 21780

Thanks, John

No worries. I tuned FB here and QSO'ed on 75 meters a few minutes ago. It was strange using a mic. Tomorrow it's back to CW.:)

--- On Fri, 7/17/09, John Davidson <k8jd@...> wrote:

From: John Davidson <k8jd@...>
Subject: Re: [TS-520_820_530_830] Re: Tune Switch Inop
To: TS-520_820_530_830@yahoogroups.com
Date: Friday, July 17, 2009, 3:05 AM

I Never have used the "tune" setting on my TS520.except when the rig was new and I wanted to see how all the controls worked !
If you don't know how to tune a tube final, it maybe a necessary setting if you take forever to dip the plate current.

[Non-text portions of this message have been removed]

21781. Re: [TS-520_820_530_830] External Match "Tuner"

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-17 04:27:35 UTC
From: L K
Topic: 21752 Message: 21781

R.

I tuned the rig into a big old heavy Bird Termaline 50 ohms and and external wattmeter beforehand.

Maybe it's overkill, but I prefer to do them separately before loading the antenna.

I tuned/dipped the radio to a dummy load first, and then try to get the antenna reactance as low as possible with an MFJ 259B.

It seems to me the "auto tuner" (a matching network, really) is to match the impedance between the radio and the antenna, and not as a way to cheat with a bedspring antenna.

A "perfectly" resonant dipole or vertical is not necessarily 50 ohms. Thus, we have the matching network, universally known erroneously as a "tuner."

The original point of my question was whether tube finals would affect an "auto" tuner. I could not think of any reason it would matter, but felt it would be better to pose the question first.

I like this TS 830 S, especially its rx filtering and audio.

I was concerned about the loud side tones in headphones. Seems one has to access the sidetone level control from the bottom panel. Guess that was not meant to be a convenient adjustment.

--- On Fri, 7/17/09, John Davidson <k8jd@...> wrote:

From: John Davidson <k8jd@...>
Subject: Re: [TS-520_820_530_830] External Match "Tuner"
To: TS-520_820_530_830@yahoogroups.com
Date: Friday, July 17, 2009, 3:22 AM

Keep in mind the loading changes at your final when you adjust the tuner will likely cause overcurrent of the final plates unless you start by lo0ading into a dummy load on CW and then turn down the carrier control until you just have enough output to see movement on your SWR meter to tune the antenna. After you have SWR tuned out, you must retune the plate and loading on the rig rig slightly (after turning the carrier control back up)./.
73....JD

--- On Thu, 7/16/09, Gordon JC Pearce <gordon@...> wrote:

From: Gordon JC Pearce <gordon@...>
Subject: Re: [TS-520_820_530_830] External Match "Tuner"
To: TS-520_820_530_830@yahoogroups.com
Date: Thursday, July 16, 2009, 2:21 AM

On Wed, 2009-07-15 at 21:14 -0500, L Kendall wrote:
> Is it OK to use an "auto tuner" matching network such as the AT-200 with
> vacuum tube finals on radios such as the TS-830-S--all other things
> being equal?
>
> It seems to me it would not matter, but this is my first use of a tube
> rig, and you know what happens when we "assume."
>
> TIA 73 Larry K5END

Yes, it's perfectly okay. Bear in mind that the PA uses a pi network to match the high impedance at the anode of the valves to the low impedance load of the antenna, which is basically a slightly special case of ATU. So, all by itself, a hybrid rig can load up into a somewhat mismatched antenna. This would be a "not quite right" antenna, rather than "entirely wrong band" antenna, though - it won't work miracles ;-)

Gordon 2M0YEQ

[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

21782. Re: Mic for my 520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-17 09:27:57 UTC
From: w5rkl
Topic: 21775 Message: 21782

No impedance problems. The D-104 is a high impedance, 50K,
microphone and the 520 has a high impedance microphone input.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Bob Singer <aztrooper@...> wrote:
>
> No impedance problems? Bob
>
> w5rkl wrote:
> >
> >
> > Hello Bob,
> >
> > Yes, providing the 4 pin microphone plug is wired properly.
> >
> > If you need help wiring the D-104 and G stand, you can download
> > the D-104's wiring at the following website:
> >
> > http://www.qsl.net/wa2mzf/d104.html <http://www.qsl.net/wa2mzf/d104.html>
> >
> > The Microphone hot and PTT hot leads should NOT share the same ground
> > return. Refer to the 520's operators manual for details on wiring
> > microphones for use with the 520.
> >
> > Mike W5RKL
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, Bob Singer
> > <aztrooper@> wrote:
> > >
> > > Will a Astatic D-104 mic with the G stand (4 pin) with my 520S?
> > > Thanks. Bob
> > >
> >
> >
> >
>

21783. Re: ts820s crackling noise coming from speaker

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-17 09:30:25 UTC
From: vk4baz
Topic: 21741 Message: 21783

mike,

Yes thats it

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Barry,
>
> I'm confused as to what your term "RF BOARD" means? Are you talking
> about the RF UNIT, the board with the driver tube?
>
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@> wrote:
> >
> > Mike,
> >
> > What I found it to be was when I purchased this rig it look like someone has had the rf board out ,when they put it back they put it back the wrong way up stream of the holding screw instead of downstream so with movement it shorted the frame onto the circuit board ,now I am worried It has blown something because my Alc is gone the driver tube is new, Thats why it sounded like arching in the receiver I only saw the sparks when moving the radio frame about thus the smell as well ,would this blow the driver tube as I replaced it twice, I am a not happy jan right now,what do you think
> >
> > Barry vk4baz
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > >
> > > Hello Barry,
> > >
> > > If turning the heater switch ON and OFF causes the noise to
> > > appear and disappear, most likely one of the tubes is arcing
> > > internally. I suspect the driver tube.
> > >
> > > ALC is only created when GRID CURRENT flows in the final tubes. The
> > > only time GRID CURRENT flows in the final tubes is when the
> > > driver's signal is sufficient to cause the final tube grids to be
> > > "positive".
> > >
> > > It is quite possible a bad driver tube can be causing your problem.
> > >

> > >
> > > Mike W5RKL
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@> wrote:
> > > > >
> > > > >
> > > > > Hello to the group
> > > > >
> > > > > I have a weird one for you need to pick your brain,I was aligning the ts 820s and noticed after I had finished tuning ,I started to get heavy static from the receiver ,when I turned the heater switch the sound changes pitch after 15 seconds then the noise quits suddenly ,I recently replaced all the caps and tested each board before moving on to the next,the only caps not replaced yet is the smoothing caps which are on order,
> > > > >
> > > > > I have had a good look for any broken wires and went back over the tuning I also noticed after the tune my alc is very hard to adjust its either to much or too liitle very differcult to get it right .
> > > > >
> > > > > what do you reckon
> > > > >
> > > > > Barry vk4baz
> > > > >
> > > >
> > >
> >

21784. Re: [TS-520_820_530_830] Re: Mic for my 520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-17 11:04:02 UTC
From: L Kendall
Topic: 21775 Message: 21784

Hey, Mike

Is the D-104 (assuming it's wired properly) compatible with my TS830S?

LK

On Fri, 2009-07-17 at 09:27 +0000, w5rkl wrote:

> No impedance problems. The D-104 is a high impedance, 50K,
> microphone and the 520 has a high impedance microphone input.
>
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, Bob Singer <aztrooper@...> wrote:
> >
> > No impedance problems? Bob
> >
> > w5rkl wrote:
> > >
> > >
> > > Hello Bob,
> > >
> > > Yes, providing the 4 pin microphone plug is wired properly.
> > >
> > > If you need help wiring the D-104 and G stand, you can download
> > > the D-104's wiring at the following website:
> > >
> > > http://www.qsl.net/wa2mzf/d104.html <http://www.qsl.net/wa2mzf/d104.html>
> > >
> > > The Microphone hot and PTT hot leads should NOT share the same ground
> > > return. Refer to the 520's operators manual for details on wiring
> > > microphones for use with the 520.
> > >
> > > Mike W5RKL
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com
> > > <mailto:TS-520_820_530_830%40yahoogroups.com>, Bob Singer
> > > <aztrooper@> wrote:
> > > >
> > > > Will a Astatic D-104 mic with the G stand (4 pin) with my 520S?
> > > > Thanks. Bob
> > > >
> > >
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

21785. Dead Tree Manuals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-17 11:11:14 UTC
From: L Kendall
Topic: 21763 Message: 21785

Maybe I reach too high, but I'd like to get a hard copy or good hard copy reproduction of Service Manual.

I never have liked having to piece schematics together or read "xerox'ed" copies scanned into Adobe. Life is too short to squint.

There are some cats who make nice reproductions of service manuals and sell them (even if a bit pricey) on ebay, but they seem to have overlooked these manuals.

But if that is the biggest problem I have, then things are going well anyway, hihi.

73 Larry

On Thu, 2009-07-16 at 21:11 +0000, w5rkl wrote:

> LK,
>
> You can download the operating and service manuals at n6wk's
> website:
>
> http://www.n6wk.com/kenwood/
>
> S

[Non-text portions of this message have been removed]

21786. Re: Dead Tree Manuals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-17 11:15:34 UTC
From: L Kendall
Topic: 21763 Message: 21786

Well... I see he has some hi-res scanned schematics on his page also.

Life is good!

On Fri, 2009-07-17 at 06:11 -0500, L Kendall wrote:

> Maybe I reach too high, but I'd like to get a hard copy or good hard
> copy reproduction of Service Manual.
>
> I never have liked having to piece schematics together or read
> "xerox'ed" copies scanned into Adobe. Life is too short to squint.
>
> There are some cats who make nice reproductions of service manuals and
> sell them (even if a bit pricey) on ebay, but they seem to have
> overlooked these manuals.
>
> But if that is the biggest problem I have, then things are going well
> anyway, hihi.
>
> 73 Larry
>
> On Thu, 2009-07-16 at 21:11 +0000, w5rkl wrote:
>
> > LK,
> >
> > You can download the operating and service manuals at n6wk's
> > website:
> >
> > http://www.n6wk.com/kenwood/
> >
> > S

[Non-text portions of this message have been removed]

21787. Re: Mic for my 520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-17 13:00:30 UTC
From: w5rkl
Topic: 21775 Message: 21787

Yep, sure is.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, L Kendall <k5end@...> wrote:
>
>
> Hey, Mike
>
> Is the D-104 (assuming it's wired properly) compatible with my TS830S?
>
> LK
>
>
>
> On Fri, 2009-07-17 at 09:27 +0000, w5rkl wrote:
>
> > No impedance problems. The D-104 is a high impedance, 50K,
> > microphone and the 520 has a high impedance microphone input.
> >
> > Mike W5RKL
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, Bob Singer <aztrooper@> wrote:
> > >
> > > No impedance problems? Bob
> > >
> > > w5rkl wrote:
> > > >
> > > >
> > > > Hello Bob,
> > > >
> > > > Yes, providing the 4 pin microphone plug is wired properly.
> > > >
> > > > If you need help wiring the D-104 and G stand, you can download
> > > > the D-104's wiring at the following website:
> > > >
> > > > http://www.qsl.net/wa2mzf/d104.html <http://www.qsl.net/wa2mzf/d104.html>
> > > >
> > > > The Microphone hot and PTT hot leads should NOT share the same ground
> > > > return. Refer to the 520's operators manual for details on wiring
> > > > microphones for use with the 520.
> > > >
> > > > Mike W5RKL
> > > >

> > > > --- In TS-520_820_530_830@yahoogroups.com
> > > > <mailto:TS-520_820_530_830%40yahoogroups.com>, Bob Singer
> > > > <aztrooper@> wrote:
> > > > >
> > > > > Will a Astatic D-104 mic with the G stand (4 pin) with my 520S?
> > > > > Thanks. Bob
> > > > >
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> > Yahoo! Groups Links
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> [Non-text portions of this message have been removed]
>

21788. Re: ts820s crackling noise coming from speaker

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-17 13:03:16 UTC
From: w5rkl
Topic: 21741 Message: 21788

Barry,

Then I am having a difficult time understanding how the RF UNIT can be installed incorrectly since it plugs into the COIL PACK UNIT and
can only be installed one way. In addition, the COIL PACK UNIT can
only be installed one way as well.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@...> wrote:
>
>
>
> mike,
>
> Yes thats it
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Barry,
> >
> > I'm confused as to what your term "RF BOARD" means? Are you talking
> > about the RF UNIT, the board with the driver tube?
> >
> > Mike W5RKL
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@> wrote:
> > >
> > > Mike,
> > >
> > > What I found it to be was when I purchased this rig it look like someone has had the rf board out ,when they put it back they put it back the wrong way up stream of the holding screw instead of downstream so with movement it shorted the frame onto the circuit board ,now I am worried It has blown something because my Alc is gone the driver tube is new, Thats why it sounded like arching in the receiver I only saw the sparks when moving the radio frame about thus the smell as well ,would this blow the driver tube as I replaced it twice, I am a not happy jan right now,what do you think
> > >
> > > Barry vk4baz
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > > >

> > > > Hello Barry,
> > > >
> > > > If turning the heater switch ON and OFF causes the noise to
> > > > appear and disappear, most likely one of the tubes is arcing
> > > > internally. I suspect the driver tube.
> > > >
> > > > ALC is only created when GRID CURRENT flows in the final tubes. The
> > > > only time GRID CURRENT flows in the final tubes is when the
> > > > driver's signal is sufficient to cause the final tube grids to be
> > > > "positive".
> > > >
> > > > It is quite possible a bad driver tube can be causing your problem.
> > > >
> > > >
> > > > Mike W5RKL
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@> wrote:
> > > > >
> > > > >
> > > > > Hello to the group
> > > > >
> > > > > I have a weird one for you need to pick your brain,I was aligning the ts 820s and
noticed after I had finished tuning ,I started to get heavy static from the receiver ,when
I turned the heater switch the sound changes pitch after 15 seconds then the noise quits
suddenly ,I recently replaced all the caps and tested each board before moving on to the
next,the only caps not replaced yet is the smoothing caps which are on order,
> > > > >
> > > > > I have had a good look for any broken wires and went back over the tuning I also
noticed after the tune my alc is very hard to adjust its either to much or too liitle very
differcult to get it right .
> > > > >
> > > > > what do you reckon
> > > > >
> > > > > Barry vk4baz
> > > > >
> > > > >
> > > >
> > >
>

21789. WTB SM-220

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-17 14:17:19 UTC
From: Bopal
Topic: 21789 Message: 21789

Anyone got one for sale? Must have the BS-8 pan-adapter.

73

John W1JGB

21790. RCA Tube Date Code

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-17 15:26:42 UTC
From: Dana
Topic: 21790 Message: 21790

I read that the date code for some RCA tubes is etched into the octagon that contains the identification of the tube. It is supposed to be small gaps in the etching. I see these gaps in my 6146Bs.

Does anyone know how to decipher this date code?

-- Dana, KA1WPM

21791. D104 vs MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-17 15:52:07 UTC
From: Kerry
Topic: 21791 Message: 21791

I have a quick question for you guys. I am getting ready to move into a new house and will finaly be getting my station set up. I have a TS-520 and will be using this as my main radio right now with some sort of ground mounted vertical.

I recently picked up a D104 with the TUG-9 amplified stand at an auction and was wondering if I should wire it up for the 520 or just use the MC-50 that I came with the radio. Can anyone tell me witch would work out better?

If it turns out the MC-50 will work better I will have that D104 either for sale or to trade for a Kenwood 2m of the same vintage as the TS-520, like the TR-7400 or something. I love the look of the old Kenwood rigs and want to build an entire station of Kenwood radios of that era and really need a 2m to access the local club repeater.

Thanks
Kerry
KE5OFO - Weatherford OK

21792. Re: [TS-520_820_530_830] D104 vs MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-17 16:59:13 UTC
From: martin
Topic: 21791 Message: 21792

Hi Kerry. I would use the MC-50. I have one that works well, and
gets unsolicited comments (all good) on my TX audio with my TS-530S,
my TS-130SE, and my TS-430S (using a home built 4 pin to 8 pin
adapter). The D-104 will work, but may need a mod done to sound good.
Also, you need a quiet room to use an amplified mic.

Kerry wrote:
> I have a quick question for you guys. I am getting ready to move into a new house and will finaly be getting my station set up. I have a TS-520 and will be using this as my main radio right now with some sort of ground mounted vertical.
>
> I recently picked up a D104 with the TUG-9 amplified stand at an auction and was wondering if I should wire it up for the 520 or just use the MC-50 that I came with the radio. Can anyone tell me witch would work out better?
>
> If it turns out the MC-50 will work better I will have that D104 either for sale or to trade for a Kenwood 2m of the same vintage as the TS-520, like the TR-7400 or something. I love the look of the old Kenwood rigs and want to build an entire station of Kenwood radios of that era and really need a 2m to access the local club repeater.
>
> Thanks
> Kerry
> KE5OFO - Weatherford OK
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

21793. Re: D104 vs MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-17 17:14:13 UTC
From: w5rkl
Topic: 21791 Message: 21793

Hello Kerry,

The amplified D-104 is a nice microphone but the amplifier in the base is cheap. I have an amplified D-104, tried it with various high impedance microphone rigs and the audio was not near as good as the non-amplified D-104s I have.

You said you wanted an entire Kenwood station. Therefore, it would stand to reason you would choose the MC-50 microphone since it is Kenwood and it was designed to be used with the 520 and other hybrids.

Keep the D-104 in the event you pick up an old vintage transmitter. The TR-7400 is a nice 2 meter FM transceiver. If you are going to use one for repeater access, I suggest you obtain an external tone encoder. The original Kenwood TR-7400 tone encoders are very difficult to find. I use a Norcomm NC-101 encoder in my 7400. Once I set the tones to 88.5hz, installed it in the 7400, it works great.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Kerry" <ke5ofo@...> wrote:
>
> I have a quick question for you guys. I am getting ready to move into a new house and will finaly be getting my station set up. I have a TS-520 and will be using this as my main radio right now with some sort of ground mounted vertical.
>
> I recently picked up a D104 with the TUG-9 amplified stand at an auction and was wondering if I should wire it up for the 520 or just use the MC-50 that I came with the radio. Can anyone tell me witch would work out better?
>
> If it turns out the MC-50 will work better I will have that D104 either for sale or to trade for a Kenwood 2m of the same vintage as the TS-520, like the TR-7400 or something. I love the look of the old Kenwood rigs and want to build an entire station of Kenwood radios of that era and really need a 2m to access the local club repeater.
>
> Thanks
> Kerry
> KE5OFO - Weatherford OK
>

21794. Re: [TS-520_820_530_830] D104 vs MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-17 21:03:07 UTC
From: george dumond
Topic: 21791 Message: 21794

Kerry Mike is right I have both the D104& a MC-50. The MC-50 works much better with my radios which are a TS-530S and a TS-830S. THe reports I have had using the D104 are sounds hollow and brassy. The MC-50 has got me excellend audio reports. Hope this helps. 73 George k0gwd

--- On Fri, 7/17/09, Kerry <ke5ofo@...> wrote:

From: Kerry <ke5ofo@...>
Subject: [TS-520_820_530_830] D104 vs MC-50
To: TS-520_820_530_830@yahoogroups.com
Date: Friday, July 17, 2009, 10:52 AM

I have a quick question for you guys. I am getting ready to move into a new house and will finaly be getting my station set up. I have a TS-520 and will be using this as my main radio right now with some sort of ground mounted vertical.

I recently picked up a D104 with the TUG-9 amplified stand at an auction and was wondering if I should wire it up for the 520 or just use the MC-50 that I came with the radio. Can anyone tell me witch would work out better?

If it turns out the MC-50 will work better I will have that D104 either for sale or to trade for a Kenwood 2m of the same vintage as the TS-520, like the TR-7400 or something. I love the look of the old Kenwood rigs and want to build an entire station of Kenwood radios of that era and really need a 2m to access the local club repeater.

Thanks
Kerry
KE5OFO - Weatherford OK

[Non-text portions of this message have been removed]

21795. Re: ts820s crackling noise coming from speaker

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-17 22:49:43 UTC
From: vk4baz
Topic: 21741 Message: 21795

Mike,

Its not that hard to picture you have to have the 820s not a 520s in front of you to understand what I am saying ,the RF board I will call it a board for now which has the driver tube at the horizontal plane above the coil pack,this board as we all know plugs into 3 slots,if you go to the very top of the board, (finals end), you have a holding lug which holds the board in place ,its very easy for the screw to go through the lug first then the board the right way is the screw goes through the board first then the lug ,if it accidently goes the wrong way then the sharp end of the lug is very close to the circuit tracks as in my case due to moving the radio around which flexis without the covers on ,just happen touch and short itself hence the crackling and squeal in the receiver,so I hope you are following me mike my english is probably differcult,what I am worried about is I have no ALC The driver is new so I changed it just in case,

Barry vk4baz

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Barry,
>
> Then I am having a difficult time understanding how the RF UNIT can be installed incorrectly since it plugs into the COIL PACK UNIT and
> can only be installed one way. In addition, the COIL PACK UNIT can
> only be installed one way as well.
>
> Mike W5RKL
>
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>
> --- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@> wrote:
> >
> >
> >
> > mike,
> >
> > Yes thats it
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > >
> > > Barry,
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> > > I'm confused as to what your term "RF BOARD" means? Are you talking
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> > > Mike W5RKL
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> > > --- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@> wrote:
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> > > >
> > > > Barry vk4baz
> > > >
> > > >
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> > > > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > > > >
> > > > > Hello Barry,
> > > > >
> > > > > If turning the heater switch ON and OFF causes the noise to
> > > > > appear and disappear, most likely one of the tubes is arcing
> > > > > internally. I suspect the driver tube.
> > > > >
> > > > > ALC is only created when GRID CURRENT flows in the final tubes. The
> > > > > only time GRID CURRENT flows in the final tubes is when the
> > > > > driver's signal is sufficient to cause the final tube grids to be
> > > > > "positive".
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> > > > > It is quite possible a bad driver tube can be causing your problem.
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> > > > > --- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@> wrote:
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> > > > > > Hello to the group
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> > > > > > I have a weird one for you need to pick your brain,I was aligning the ts 820s and noticed after I had finished tuning ,I started to get heavy static from the receiver ,when I turned the heater switch the sound changes pitch after 15 seconds then the noise quits suddenly ,I recently replaced all the caps and tested each board before moving on to the next,the only caps not replaced yet is the smoothing caps which are on order,
> > > > > >
> > > > > > I have had a good look for any broken wires and went back over the tuning I

also noticed after the tune my alc is very hard to adjust its either to much or too liitle very differcult to get it right .
> > > > > >
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21796. Re: ts820s crackling noise coming from speaker

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-18 03:40:34 UTC
From: w5rkl
Topic: 21741 Message: 21796

Barry,

I do not have a 520S but I do have an 820 and I'm quite familiar how the RF and COIL UNIT board mount in the 820. Unfortunately, your initial explanation didn't make sense to me but your most recent explanation does make sense.

I assume you have fixed the RF UNIT's incorrect mounting and no longer have the arcing problem. It also appears that you have replaced the driver tube.

Have you attempted to tune the 820 up in CW mode? If so, what output power does the 820 produce?

If the 820 tunes up in CW mode, have you checked the HV UNIT resistors, R5 and R6, both 56K 1/2 watt? If one or both of these resistors fail, increase significantly in resistance, there will be zero ALC indication on the meter in TUNE mode even if you can tune for full output in CW mode!

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@...> wrote:
>
> Mike,
>
> Its not that hard to picture you have to have the 820s not a 520s in front of you to understand what I am saying ,the RF board I will call it a board for now which has the driver tube at the horizontal plane above the coil pack,this board as we all know plugs into 3 slots,if you go to the very top of the board, (finals end), you have a holding lug which holds the board in place ,its very easy for the screw to go through the lug first then the board the right way is the screw goes through the board first then the lug ,if it accidently goes the wrong way then the sharp end of the lug is very close to the circuit tracks as in my case due to moving the radio around which flexis without the covers on ,just happen touch and short itself hence the crackling and squeal in the receiver,so I hope you are following me mike my english is probably differcult,what I am worried about is I have no ALC The driver is new so I changed it just in case,
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21797. Re: [TS-520_820_530_830] Re: D104 vs MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-18 03:45:44 UTC
From: L Kendall
Topic: 21791 Message: 21797

Speaking of the Astatic D104 vs. MC-50 dilemma, I'd be curious about the Shure 444.

Anyone have experience with that mic on the TS-830S?

[Non-text portions of this message have been removed]

21798. Re: [TS-520_820_530_830] Re: D104 vs MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-18 04:08:31 UTC
From: K5vse-Mike
Topic: 21791 Message: 21798

I can't say for the 830, but for years I used a 444 with a 520 and got great audio reports. Right now I have an 820 and 520 on the bench and will try both mic with both transceivers. I'm sure they will both work equally well.

73,
Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2009
"In God We Trust"

[Non-text portions of this message have been removed]

21799. Re: [TS-520_820_530_830] D104 vs MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-18 04:34:36 UTC
From: James Fogg
Topic: 21791 Message: 21799

> I recently picked up a D104 with the TUG-9 amplified stand at an auction
> and was wondering if I should wire it up for the 520 or just use the MC-50
> that I came with the radio. Can anyone tell me witch would work out
> better?

The D-104 has a characteristic harsh and tinny sound that is said to work well on SSB. It tends to punch through better. It is also very sensitive so it tends to flatten the dynamic range of the human voice like a speech compressor would.

But nice things can be said for the richer sound of an MC-50 too.

Why not use both? Perhaps the MC-50 for ragchewing and the D-104 for pile-ups and contests?

--
James -

21800. Receive of the 520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-18 07:09:37 UTC
From: Michael
Topic: 21800 Message: 21800

Mike W5RKL,

I have a question on my 520s. This is crazy, I get a static noise in the receive but when I re-adjust the volume control you can hear the static in the speaker go away, but quite often it will return for a while. Now when I re-adjust the volume control, I'm talking about turning it up until the static is gone and then turn it back down for normal operation. I have already replaced the control itself and that didn't do. Any Suggestions?

Thanks
ki0gv
Mike

21801. Re: [TS-520_820_530_830] Re: D104 vs MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-18 12:24:09 UTC
From: Dave ve3wej
Topic: 21791 Message: 21801

shure 444 or better the 444d is excellent choice for any radio (for a desk mike)

d104 ug8 style is ok, bujt I stay away from any amplified mike

----- Original Message -----
From: "L Kendall" <k5end@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, July 17, 2009 11:45 PM
Subject: Re: [TS-520_820_530_830] Re: D104 vs MC-50

>
> Speaking of the Astatic D104 vs. MC-50 dilemma, I'd be curious about the
> Shure 444.
>
> Anyone have experience with that mic on the TS-830S?
>
>
> [Non-text portions of this message have been removed]
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>
> Yahoo! Groups Links
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21802. Re: Receive of the 520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-18 12:43:21 UTC
From: w5rkl
Topic: 21800 Message: 21802

Hello Mike,

You might try cleaning the "Phones" AND "EXT SP" sockets. Receive audio goes through both before. Clean both even if you are using an external speaker.

Also check all PC board mounting and ground screws. Loosen the screws a half turn then tighten.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Michael" <ki0gv@...> wrote:
>
> Mike W5RKL,
>
> I have a question on my 520s. This is crazy, I get a static noise in the receive but when I re-adjust the volume control you can hear the static in the speaker go away, but quite often it will return for a while. Now when I re-adjust the volume control, I'm talking about turning it up until the static is gone and then turn it back down for normal operation. I have already replaced the control itself and that didn't do. Any Suggestions?
>
> Thanks
> ki0gv
> Mike
>

21803. Re: [TS-520_820_530_830] D104 vs MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-18 16:45:04 UTC
From: pmarkavage
Topic: 21791 Message: 21803

The stock MC-50 has a very characteristic "mellow" sound. It exhibits very little in the way of talk-power. However, the next time you finish a roll of toilet paper, simply take the empty cardboard tube and slip it over the MC-50 mike. Speak into or near the end of the tube. The tube opening should extend out about an inch from the front of the mike. Experimentation of the actual location may be dependent on the person speaking into the mike. The frequency response of the mike will narrow and the mike will exhibit a bit of talk power which is very handy for working DX and in contests. This mod made the rounds way back in the 70's. Location of the tube on the mike and also the length of the tube will also modify the frequency response. This is the cheap-man way to adding some zing to your MC-50 without breaking the bank.

Pete, wa2cwa
http://www.manualman.com

On Sat, 18 Jul 2009 00:34:36 -0400 (EDT) "James Fogg" <james@...>
writes:
> > I recently picked up a D104 with the TUG-9 amplified stand at an
> auction
> > and was wondering if I should wire it up for the 520 or just use
> the MC-50
> > that I came with the radio. Can anyone tell me witch would work
> out
> > better?
>
>
> The D-104 has a characteristic harsh and tinny sound that is said to
> work
> well on SSB. It tends to punch through better. It is also very
> sensitive
> so it tends to flatten the dynamic range of the human voice like a
> speech
> compressor would.
>
> But nice things can be said for the richer sound of an MC-50 too.
>
> Why not use both? Perhaps the MC-50 for ragchewing and the D-104
> for
> pile-ups and contests?
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> --
> James -
>
>

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> Yahoo! Groups Links
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21804. Which mic to use

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-18 16:54:34 UTC
From: Rich Jones
Topic: 21804 Message: 21804

Posted by: "L Kendall" k5end@... k5end@...
Fri Jul 17, 2009 8:46 pm (PDT)

Speaking of the Astatic D104 vs. MC-50 dilemma, I'd be curious about the Shure 444.

Anyone have experience with that mic on the TS-830S?

I have used Shure 444's on several Kenwood radios. 520-520s & 530. Good reports on all. Also used the Shure 520 (looks like 444 but has omni-directional element) and 201 hand mic.
I like the D-104's, chuck out the amp board, bypass and put a resister in line on the green audio wire. If you have a resister substitue box, that will make it easy to find out which works best for you. Use 1/4 watt, it will put more base into the mic, thus eliminating the high "raspy" sound. Good luck, Rich K8UV

[Non-text portions of this message have been removed]

21805. Re: Which mic to use

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-18 20:36:48 UTC
From: w5rkl
Topic: 21804 Message: 21805

I use a Shure 444 on my 820. It does a great job. I also use it
on my Heathkit SB-401 transmitter, same results, great audio.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Rich Jones <michjonezee@...> wrote:
>
> Posted by: "L Kendall" k5end@... k5end@...
> Fri Jul 17, 2009 8:46 pm (PDT)
>
>
>
> Speaking of the Astatic D104 vs. MC-50 dilemma, I'd be curious about the Shure 444.
>
> Anyone have experience with that mic on the TS-830S?
>
>
> I have used Shure 444's on several Kenwood radios. 520-520s & 530. Good reports on all. Also used the Shure 520 (looks like 444 but has omni-directional element) and 201 hand mic.
> I like the D-104's, chuck out the amp board, bypass and put a resister in line on the green audio wire. If you have a resister substitue box, that will make it easy to find out which works best for you. Use 1/4 watt, it will put more base into the mic, thus eliminating the high "raspy" sound. Good luck, Rich K8UV
>
>
>
>
> [Non-text portions of this message have been removed]
>

21806. Re: [TS-520_820_530_830] Re: Which mic to use

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-19 00:28:53 UTC
From: K5vse-Mike
Topic: 21804 Message: 21806

I've used the 444 on Kenwood, Collins, National, Johnson, Drake, and Heath. Right now I use two on my two Drakes. I used one with the Kenwood twins as well. It worked great with all the rigs. I have used the D-104, but NEVER the amplified version. Those were mostly used for CB in order to get all the meters to peg to the right.

My thoughts only,
73,
Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
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"In God We Trust"

[Non-text portions of this message have been removed]

21807. Re: ts820s crackling noise coming from speaker

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-19 02:07:40 UTC
From: vk4baz
Topic: 21741 Message: 21807

Hello mike and the group

The 820s was working fine until the arching was present on the RF unit with that fixed all ok,But my ALC has dispeared very little output on cw rf mode about 50 ma ,checked all resisters on the HV all appeared ok even pulled them out to check all within range,I have noticed the s meter does not register the 25khz marker on all bands either,but before everthing was adjusted within range ,I can't get the s meter to peak to S9 using the 25khz maker and adjusting vr2 on the IF unit,
Also the transformer what is the correct way to measure the voltage I am reading far less than 800v and a couple of others as well but it could be I am not doing it correctly,

Barry vk4baz

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Barry,
>
> I do not have a 520S but I do have an 820 and I'm quite familiar how
> the RF and COIL UNIT board mount in the 820. Unfortunately, your
> initial explanation didn't make sense to me but your most recent
> explanation does make sense.
>
> I assume you have fixed the RF UNIT's incorrect mounting and no
> longer have the arcing problem. It also appears that you have
> replaced the driver tube.
>
> Have you attempted to tune the 820 up in CW mode? If so, what output
> power does the 820 produce?
>
> If the 820 tunes up in CW mode, have you checked the HV UNIT
> resistors, R5 and R6, both 56K 1/2 watt? If one or both of these
> resistors fail, increase significantly in resistance, there will be
> zero ALC indication on the meter in TUNE mode even if you can tune
> for full output in CW mode!
>
> Mike W5RKL
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> --- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@> wrote:
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> > Mike,
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> > Its not that hard to picture you have to have the 820s not a 520s in front of you to understand what I am saying ,the RF board I will call it a board for now which has the

driver tube at the horizontal plane above the coil pack,this board as we all know plugs into 3 slots,if you go to the very top of the board, (finals end), you have a holding lug which holds the board in place ,its very easy for the screw to go through the lug first then the board the right way is the screw goes through the board first then the lug ,if it accidently goes the wrong way then the sharp end of the lug is very close to the circuit tracks as in my case due to moving the radio around which flexis without the covers on ,just happen touch and short itself hence the crackling and squeal in the receiver,so I hope you are following me mike my english is probably differcult,what I am worried about is I have no ALC The driver is new so I changed it just in case,
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> > > > > > > > >
> > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@> wrote:
> > > > > > > > > >
> > > > > > > > > >
> > > > > > > > > > Hello to the group
> > > > > > > > > >
> > > > > > > > > > I have a weird one for you need to pick your brain,I was aligning the ts 820s and noticed after I had finished tuning ,I started to get heavy static from the receiver ,when I turned the heater switch the sound changes pitch after 15 seconds then the noise quits suddenly ,I recently replaced all the caps and tested each board before moving on to the next,the only caps not replaced yet is the smoothing caps which are on order,
> > > > > > > > > >
> > > > > > > > > > I have had a good look for any broken wires and went back over the tuning I also noticed after the tune my alc is very hard to adjust its either to much or too liitle very differcult to get it right .
> > > > > > > > > >
> > > > > > > > > > what do you reckon
> > > > > > > > > >
> > > > > > > > > > Barry vk4baz
> > > > > > > > > >
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21808. Re: [TS-520_820_530_830] D104 vs MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-19 10:30:49 UTC
From: John Paterson
Topic: 21791 Message: 21808

I have both, plus the Heil mic. I got an onld D104 and experimented with this
http://www.qsl.net/hcara/Improving_the_D-104_N9WB_rev2.pdf
and it is a damn sight better than both the MC50 and the unmodified D104 microphone.

--- On Sat, 18/7/09, James Fogg <james@...> wrote:

From: James Fogg <james@...>
Subject: Re: [TS-520_820_530_830] D104 vs MC-50
To: TS-520_820_530_830@yahoogroups.com
Received: Saturday, 18 July, 2009, 2:34 PM

> I recently picked up a D104 with the TUG-9 amplified stand at an auction
> and was wondering if I should wire it up for the 520 or just use the MC-50
> that I came with the radio. Can anyone tell me witch would work out
> better?

The D-104 has a characteristic harsh and tinny sound that is said to work
well on SSB. It tends to punch through better. It is also very sensitive
so it tends to flatten the dynamic range of the human voice like a speech
compressor would.

But nice things can be said for the richer sound of an MC-50 too.

Why not use both? Perhaps the MC-50 for ragchewing and the D-104 for
pile-ups and contests?

--
James -

_____
Access Yahoo!7 Mail on your mobile. Anytime. Anywhere.
Show me how: http://au.mobile.yahoo.com/mail

[Non-text portions of this message have been removed]

21809. TS-830S VS. ft-102

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-19 13:57:36 UTC
From: wp3vv1
Topic: 21809 Message: 21809

These rigs are up for sale as today - 07-19-2009. Cosmetically, I feel more for the ft-102. As I don't have any experience with these rigs, I would like to know if anyone had the opportunity to have them both or at least can throw a fair comparison between the two, before I make the purchase. Both rigs are in mint condition.

I am aware of the relay problems on the ft-102.

Thanks.

21810. Re: [TS-520_820_530_830] TS-830S VS. ft-102

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-19 14:32:06 UTC
From: martin
Topic: 21809 Message: 21810

Hi. Personally, I would choose the Kenwood TS-830S. While I have not owned either of the radios you mention, I have owned both Kenwood and Yaesu radios from the same era, and the Kenwood radios were always superior in performance to the Yaesu radios.

Just my $10.00 ($.02 adjusted for inflation!)

TTYL

wp3vv1 wrote:
> These rigs are up for sale as today - 07-19-2009. Cosmetically, I
> feel more for the ft-102. As I don't have any experience with these
> rigs, I would like to know if anyone had the opportunity to have them
> both or at least can throw a fair comparison between the two, before
> I make the purchase. Both rigs are in mint condition.
>
> I am aware of the relay problems on the ft-102.
>
> Thanks.
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to: www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at
http://www.defectivebydesign.org/what_is_drm"
Q. What's the difference between Batman and Bill Gates?
A. When Batman fought the Penguin, he won.

21811. Re: [TS-520_820_530_830] TS-830S VS. ft-102

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-19 15:39:38 UTC
From: Dave ve3wej
Topic: 21809 Message: 21811

has the ft-102 had its relays changed.. check mod history..

the choice really has to be yours

----- Original Message -----
From: "wp3vv1" <wp3vv1@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, July 19, 2009 9:57 AM
Subject: [TS-520_820_530_830] TS-830S VS. ft-102

> These rigs are up for sale as today - 07-19-2009. Cosmetically, I feel
> more for the ft-102. As I don't have any experience with these rigs, I
> would like to know if anyone had the opportunity to have them both or at
> least can throw a fair comparison between the two, before I make the
> purchase. Both rigs are in mint condition.
>
> I am aware of the relay problems on the ft-102.
>
> Thanks.
>
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> Yahoo! Groups Links
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21812. Re: D104 vs MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-19 11:41:39 UTC
From: Paul
Topic: 21791 Message: 21812

--- In TS-520_820_530_830@yahoogroups.com, John Paterson <john_w_paterson@...> wrote:
>
> I have both, plus the Heil mic. I got an onld D104 and experimented with this
http://www.qsl.net/hcara/Improving_the_D-104_N9WB_rev2.pdf
> and it is a damn sight better than both the MC50 and the unmodified D104 microphone.
>
> --- On Sat, 18/7/09, James Fogg <james@...> wrote:
>
>
> From: James Fogg <james@...>
> Subject: Re: [TS-520_820_530_830] D104 vs MC-50
> To: TS-520_820_530_830@yahoogroups.com
> Received: Saturday, 18 July, 2009, 2:34 PM
>
> Hi James
I find I cannot go past the MC50 as I always wanted a 60A but could not get one as I was always outbided so I bought a MC50 and had a pre amp put in it and now I would not look back as I have had some wonderful reports from local and overseas operators about the quality of the modulation from my 520S I have it set up so I can use it on two radio by means of a switch box in the middle. Dont knock the MC50

Paul VK5FUZZ
>
>
>
>
> > I recently picked up a D104 with the TUG-9 amplified stand at an auction
> > and was wondering if I should wire it up for the 520 or just use the MC-50
> > that I came with the radio. Can anyone tell me witch would work out
> > better?
>
> The D-104 has a characteristic harsh and tinny sound that is said to work
> well on SSB. It tends to punch through better. It is also very sensitive
> so it tends to flatten the dynamic range of the human voice like a speech
> compressor would.
>
> But nice things can be said for the richer sound of an MC-50 too.
>
> Why not use both? Perhaps the MC-50 for ragchewing and the D-104 for
> pile-ups and contests?
>
> --
> James -
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> ~~~~~~
> Access Yahoo!7 Mail on your mobile. Anytime. Anywhere.
> Show me how: http://au.mobile.yahoo.com/mail
>
> [Non-text portions of this message have been removed]
>

21813. Re: TS-830S VS. ft-102

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-19 16:01:19 UTC
From: wp3vv1
Topic: 21809 Message: 21813

--- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@...> wrote:
>
> has the ft-102 had its relays changed.. check mod history..
>
> the choice really has to be yours
>
>
> ----- Original Message -----
> From: "wp3vv1" <wp3vv1@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Sunday, July 19, 2009 9:57 AM
> Subject: [TS-520_820_530_830] TS-830S VS. ft-102
>
>
> > These rigs are up for sale as today - 07-19-2009. Cosmetically, I feel
> > more for the ft-102. As I don't have any experience with these rigs, I
> > would like to know if anyone had the opportunity to have them both or at
> > least can throw a fair comparison between the two, before I make the
> > purchase. Both rigs are in mint condition.
> >
> > I am aware of the relay problems on the ft-102.
> >
> > Thanks.
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
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> >
>
Thanks Dave and Martin for your quick response.

I've been checking all around - plenty of data on both rigs. Still looking to see if anyone has made a head to head check on both, just to make sure before I lay down the cash.

21814. Re: ts820s crackling noise coming from speaker

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-19 16:38:53 UTC
From: w5rkl
Topic: 21741 Message: 21814

Barry,

Check the AF UNIT AF1 and AF2 plugs for the following voltages:

AF1 pin 1 -- Voltage should be 9VDC
AF2 pin 6 -- Voltage should be 3.3VDC

AF1 pin 1 is the 9VDC supply that is used throughout the 820 for
both transmit and receive circuitry. If the voltage is not 9VDC,
adjust VR4 located in the middle of the AF UNIT board so the voltage
at AF1 pin 1 is 9VDC.

AF2 pin 6 is the 3.3VDC bias voltage that also is used throughout
the 820. If the voltage is not 3.3VDC, adjust VR1 located between
plugs AF1 and AF2. so the voltage at AF2 pin 6 is 3.3VDC.

Adjust the 9VDC first then adjust the 3.3VDC. The reason is the
3.3VDC is produced from the 9VDC source.

Over time the PLL and CAR UNIT assemblies interconnecting pins
have corrosion build up on the fix pins inside the metal enclosures.
This affects the PLL and CAR UNIT signals used in both transmit
and receive. To clean these pins, both the PLL UNIT and the CAR UNIT
assemblies must be removed.

Each of these assemblies consist of 2 circuit boards that interconnect
through fixed pins inside the metal enclosures. Remove each
assembly, remove the top and bottom covers, then remove each board
and clean the pins. Clean the sockets as well then install each
board back into the metal enclosure, replace the covers, and install
the assembly back into the 820. Do this to both assemblies.

I also recommend removing the relay on the RELAY UNIT, clean the
pins then remove the outer plastic cover and clean the relay contacts
with contact cleaner. Both receive and transmit control signals flow
through this relay. Corrosion can present a high resistance to
signals which can affect both transmit and receive. For example, the
"AGL" line which is the path for receiver "AGC" and transmitter "ALC"
control voltages. The "AGL" is a common path that serves both
transmit and receive gain control signals. The "AGL" line terminates
on the "IF UNIT".

The T/R relay, located on the bottom near the rear of the FINAL UNIT,
inside the small metal enclosure, does not affect the Marker
signal. The Marker signal flows directly from the MARKER UNIT to the
COIL PACK UNIT. This relay will, if carbon build up occurs on the
relay contacts, affect the receive signal. The relay is the same as

the relay on the RELAY UNIT.

Measuring the DC voltages is done at the Rectifier Unit. Voltages
can be measured elsewhere but this is the easiest way to do it.

Use the 820's service manual and measure the voltages as follows:

HV:

Positive lead to the Rectifier Unit's "800" terminal and negative
lead to the chassis.

LV:

Postive lead to 300A negative to chassis.
Positive lead to 300B negative to chassis.
Positive lead to 14 negative to chassis.

Positive lead to 210A negative to chassis.
Positive lead to 210B negative to chassis.
Positive lead to STB negative to chassis.

Bias and SG:

Negative lead to -C positive to chassis
Negative lead to SG positive to chassis

There are similar terminal labeling that have "AC" as part of the
terminal label. These are the power transformer's secondary windings.

I would not recommend adjusting the COIL PACK UNIT until a thorough
cleaning of ALL board pins, plugs, and ground connections. The PLL
and CAR UNIT assemblies, for example, are common to both transmit and
receive. If the internal interconnecting pins in each assembly are
dirty/corroded both transmit and receive will be affected.

Mike W5RKL

--- In TS-520_820_530_830@...m, "vk4baz" <dellthorp@...> wrote:
>
> Hello mike and the group
>
> The 820s was working fine until the arching was present on the RF unit with that fixed all ok,But my ALC has dispeared very little output on cw rf mode about 50 ma ,checked all resisters on the HV all appeared ok even pulled them out to check all within range,I have noticed the s meter does not register the 25khz marker on all bands either,but before everthing was adjusted within range ,I can't get the s meter to peak to S9 using the 25khz maker and adjusting vr2 on the IF unit,
> Also the transformer what is the correct way to measure the voltage I am reading far less than 800v and a couple of others as well but it could be I am not doing it correctly,
>
> Barry vk4baz
>

> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Barry,
> >
> > I do not have a 520S but I do have an 820 and I'm quite familiar how
> > the RF and COIL UNIT board mount in the 820. Unfortunately, your
> > initial explanation didn't make sense to me but your most recent
> > explanation does make sense.
> >
> > I assume you have fixed the RF UNIT's incorrect mounting and no
> > longer have the arcing problem. It also appears that you have
> > replaced the driver tube.
> >
> > Have you attempted to tune the 820 up in CW mode? If so, what output
> > power does the 820 produce?
> >
> > If the 820 tunes up in CW mode, have you checked the HV UNIT
> > resistors, R5 and R6, both 56K 1/2 watt? If one or both of these
> > resistors fail, increase significantly in resistance, there will be
> > zero ALC indication on the meter in TUNE mode even if you can tune
> > for full output in CW mode!
> >
> > Mike W5RKL
> >
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@> wrote:
> > >
> > > Mike,
> > >
> > > Its not that hard to picture you have to have the 820s not a 520s in front of you to
understand what I am saying ,the RF board I will call it a board for now which has the
driver tube at the horizontal plane above the coil pack,this board as we all know plugs
into 3 slots,if you go to the very top of the board, (finals end), you have a holding lug
which holds the board in place ,its very easy for the screw to go through the lug first
then the board the right way is the screw goes through the board first then the lug ,if it
accidently goes the wrong way then the sharp end of the lug is very close to the circuit
tracks as in my case due to moving the radio around which flexis without the covers on
,just happen touch and short itself hence the crackling and squeal in the receiver,so I
hope you are following me mike my english is probably differcult,what I am worried about is
I have no ALC The driver is new so I changed it just in case,
> > >
> > > Barry vk4baz
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > > >
> > > > Barry,
> > > >
> > > > Then I am having a difficult time understanding how the RF UNIT can be installed

incorrectly since it plugs into the COIL PACK UNIT and
> > > > can only be installed one way. In addition, the COIL PACK UNIT can
> > > > only be installed one way as well.
> > > >
> > > > Mike W5RKL
> > > >
> > > >
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@> wrote:
> > > > >
> > > > >
> > > > >
> > > > > mike,
> > > > >
> > > > > Yes thats it
> > > > >
> > > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > > > > >
> > > > > > Barry,
> > > > > >
> > > > > > I'm confused as to what your term "RF BOARD" means? Are you talking
> > > > > > about the RF UNIT, the board with the driver tube?
> > > > > >
> > > > > > Mike W5RKL
> > > > > >
> > > > > >
> > > > > > --- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@> wrote:
> > > > > > >
> > > > > > > Mike,
> > > > > > >
> > > > > > > What I found it to be was when I purchased this rig it look like someone has
had the rf board out ,when they put it back they put it back the wrong way up stream of the
holding screw instead of downstream so with movement it shorted the frame onto the circuit
board ,now I am worried It has blown something because my Alc is gone the driver tube is
new, Thats why it sounded like arching in the receiver I only saw the sparks when moving
the radio frame about thus the smell as well ,would this blow the driver tube as I replaced
it twice, I am a not happy jan right now,what do you think
> > > > > > >
> > > > > > > Barry vk4baz
> > > > > > >
> > > > > > >
> > > > > > >
> > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > > > > > > >
> > > > > > > > Hello Barry,
> > > > > > > >
> > > > > > > > If turning the heater switch ON and OFF causes the noise to
> > > > > > > > appear and disappear, most likely one of the tubes is arcing
> > > > > > > > internally. I suspect the driver tube.

> > > > > > > >
> > > > > > > > > ALC is only created when GRID CURRENT flows in the final tubes. The
> > > > > > > > > only time GRID CURRENT flows in the final tubes is when the
> > > > > > > > > driver's signal is sufficient to cause the final tube grids to be
> > > > > > > > > "positive".
> > > > > > > > >
> > > > > > > > > It is quite possible a bad driver tube can be causing your problem.
> > > > > > > > >
> > > > > > > > >
> > > > > > > > > Mike W5RKL
> > > > > > > > >
> > > > > > > > >
> > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@> wrote:
> > > > > > > > >
> > > > > > > > >
> > > > > > > > > Hello to the group
> > > > > > > > >
> > > > > > > > > I have a weird one for you need to pick your brain,I was aligning the ts
820s and noticed after I had finished tuning ,I started to get heavy static from the
receiver ,when I turned the heater switch the sound changes pitch after 15 seconds then the
noise quits suddenly ,I recently replaced all the caps and tested each board before moving
on to the next,the only caps not replaced yet is the smoothing caps which are on order,
> > > > > > > > >
> > > > > > > > > I have had a good look for any broken wires and went back over the tuning
I also noticed after the tune my alc is very hard to adjust its either to much or too
liitle very differcult to get it right .
> > > > > > > > >
> > > > > > > > > what do you reckon
> > > > > > > > >
> > > > > > > > > Barry vk4baz
> > > > > > > > >
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21815. Re: [TS-520_820_530_830] TS-830S VS. ft-102

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-19 16:54:12 UTC
From: yash@aol.com
Topic: 21809 Message: 21815

Having owned and serviced both ,many times I would have to say the 102 when fully cleaned up,aligned and tuned correctly,has a slight edge over the 830? on receive. Transmit,no question the 102 has a cleaner signal and of course a bit more output. The 830 is MUCH easier to service and keep in peak operation. The two rigs side by side, both working? normally,you wont tell the difference in day to day operation. The 102 is not worth the premium their usually asking for them unless the rig has been gone thru my Mal and sealed. Just mu opinion.
thanks
dale wt4t

-----Original Message-----
From: Dave ve3wej <ve3wej@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sun, Jul 19, 2009 11:39 am
Subject: Re: [TS-520_820_530_830] TS-830S VS. ft-102

has the ft-102 had its relays changed.. check mod history..

the choice really has to be yours

----- Original Message -----

From: "wp3vv1" <wp3vv1@...>

To: <TS-520_820_530_830@yahoogroups.com>

Sent: Sunday, July 19, 2009 9:57 AM

Subject: [TS-520_820_530_830] TS-830S VS. ft-102

> These rigs are up for sale as today - 07-19-2009. Cosmetically, I feel

> more for the ft-102. As I don't have any experience with these rigs, I

> would like to know if anyone had the opportunity to have them both or at

> least can throw a fair comparison between the two, before I make the

> purchase. Both rigs are in mint condition.

>

> I am aware of the relay problems on the ft-102.

>

> Thanks.

>

>

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> Yahoo! Groups Links

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[Non-text portions of this message have been removed]

21816. QRZ WB9UOK here

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-19 17:19:18 UTC
From: Gene Ingram
Topic: 21816 Message: 21816

Hi folks, Gene, WB9UOK here. Walt invited me to join the group and here I am. I have owned several of the Kenwood models that this group is about and enjoyed them. Looking at getting back on low band in the near future. I live near Walt so (whether he wants to admit it) will be asking his input on the antennas and other logistics on making that happen.
73's Gene, WB9UOK
New Castle, In.

[Non-text portions of this message have been removed]

21817. Re: RCA Tube Date Code

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-19 17:37:57 UTC
From: Wim Penders
Topic: 21790 Message: 21817

Dana,

First two digits are the manufacuring year, the second two digits are the week.

Simple, you will find this too on some condensers.

73, good weekend, Wim PA0PGA

--- In TS-520_820_530_830@yahoogroups.com, "Dana" <ka1wpm@...> wrote:
>
> I read that the date code for some RCA tubes is etched into the octagon that contains the identification of the tube. It is supposed to be small gaps in the etching. I see these gaps in my 6146Bs.
>
> Does anyone know how to decipher this date code?
>
> -- Dana, KA1WPM
>

21818. Re: TS-830S VS. ft-102

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-19 18:05:37 UTC
From: wp3vv1
Topic: 21809 Message: 21818

--- In TS-520_820_530_830@yahoogroups.com, yash@... wrote:
>
>
> Having owned and serviced both ,many times I would have to say the 102 when fully cleaned up,aligned and tuned correctly,has a slight edge over the 830? on receive. Transmit,no question the 102 has a cleaner signal and of course a bit more output. The 830 is MUCH easier to service and keep in peak operation. The two rigs side by side, both working? normally,you wont tell the difference in day to day operation. The 102 is not worth the premium their usually asking for them unless the rig has been gone thru my Mal and sealed.
> Just mu opinion.
> thanks
> dale wt4t
>
Thanks Dale - That's exactly the answer I was looking for.
>
>
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>
> -----Original Message-----
> From: Dave ve3wej <ve3wej@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sun, Jul 19, 2009 11:39 am
> Subject: Re: [TS-520_820_530_830] TS-830S VS. ft-102
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>
> has the ft-102 had its relays changed.. check mod history..
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>
> the choice really has to be yours
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>
> ----- Original Message -----
>
> From: "wp3vv1" <wp3vv1@...>
>
> To: <TS-520_820_530_830@yahoogroups.com>
>
> Sent: Sunday, July 19, 2009 9:57 AM
>
> Subject: [TS-520_820_530_830] TS-830S VS. ft-102
>
>
>
> > These rigs are up for sale as today - 07-19-2009. Cosmetically, I feel
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> > more for the ft-102. As I don't have any experience with these rigs, I
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> > would like to know if anyone had the opportunity to have them both or at
>
> > least can throw a fair comparison between the two, before I make the
>
> > purchase. Both rigs are in mint condition.
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> > I am aware of the relay problems on the ft-102.
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>
> > Thanks.
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> > Yahoo! Groups Links
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21819. Ts-530s question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-19 19:31:36 UTC
From: hotfoot95404
Topic: 21819 Message: 21819

When I turn on the rig after it's been off for a few hours the vfo light comes on dim and there's no display or reception. Tapping the top of the case makes it come on and no problems when its running.Cycling the on off switch when it's been on for a while it will light up fine. Only after a few hours on inactivity that this will happen. I've checked the screws and the plug in cables and they are tight. If I turn off the agc It will power up sometimes without tapping the case. Anyone ever run across this one? 73
Peter

21820. Re: [TS-520_820_530_830] Ts-530s question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-19 21:30:37 UTC
From: Gordon JC Pearce
Topic: 21819 Message: 21820

On Sun, 2009-07-19 at 19:31 +0000, hotfoot95404 wrote:
> When I turn on the rig after it's been off for a few hours the vfo
> light comes on dim and there's no display or reception. Tapping the
> top of the case makes it come on and no problems when its
> running.Cycling the on off switch when it's been on for a while it
> will light up fine. Only after a few hours on inactivity that this
> will happen. I've checked the screws and the plug in cables and they
> are tight. If I turn off the agc It will power up sometimes without
> tapping the case. Anyone ever run across this one? 73
> Peter

Tried reseating the VFO plug on the back?

Gordon 2M0YEQ

21821. Re: Ts-530s question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-19 22:48:34 UTC
From: hotfoot95404
Topic: 21819 Message: 21821

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce <gordon@...> wrote:
>
> On Sun, 2009-07-19 at 19:31 +0000, hotfoot95404 wrote:
> > When I turn on the rig after it's been off for a few hours the vfo
> > light comes on dim and there's no display or reception. Tapping the
> > top of the case makes it come on and no problems when its
> > running.Cycling the on off switch when it's been on for a while it
> > will light up fine. Only after a few hours on inactivity that this
> > will happen. I've checked the screws and the plug in cables and they
> > are tight. If I turn off the agc It will power up sometimes without
> > tapping the case. Anyone ever run across this one? 73
> > Peter
>
> Tried reseating the VFO plug on the back?
>
> Gordon 2M0YEQ
>
Hi Gordon,
The rig has a vfo socket but no plug. I don't believe the TS-530s needs one for the vfo to operate,but I could be wrong. Regards
Peter

21822. Re: [TS-520_820_530_830] Re: D104 vs MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-20 00:07:10 UTC
From: John Davidson
Topic: 21791 Message: 21822

I know my TS520 produces good quality SSB with any halfway decent mic. The quality is in the rig's circuits and anything from a 1950's tape recorder mic to a studio quality mic is going to sound good on the air. Preamps and all that CB minded crap is just a waste of money and can cause distracting background noist that takes away from your intelligablity!

--- On Fri, 7/17/09, L Kendall <k5end@...> wrote:

From: L Kendall <k5end@...>
Subject: Re: [TS-520_820_530_830] Re: D104 vs MC-50
To: TS-520_820_530_830@yahoogroups.com
Date: Friday, July 17, 2009, 11:45 PM

Speaking of the Astatic D104 vs. MC-50 dilemma, I'd be curious about the Shure 444.

Anyone have experience with that mic on the TS-830S?

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

21823. R: [TS-520_820_530_830] TS-830S VS. ft-102

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-20 07:05:55 UTC
From: p.coppin
Topic: 21809 Message: 21823

On my desk I have a TS-830 and Yaesu FT-902. Very often I compare them switching quickly the antenna.
The receiving signals strengths are the same, despite this I prefer the TS-830 because it has a better audio quality, warm and enveloping.
Moreover I think it has a little bit better selectivity.
73
Paul i8ixo

Da: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] Per conto di wp3vv1
Inviato: domenica 19 luglio 2009 15.58
A: TS-520_820_530_830@yahoogroups.com
Oggetto: [TS-520_820_530_830] TS-830S VS. ft-102

These rigs are up for sale as today - 07-19-2009. Cosmetically, I feel more for the ft-102. As I don't have any experience with these rigs, I would like to know if anyone had the opportunity to have them both or at least can throw a fair comparison between the two, before I make the purchase. Both rigs are in mint condition.

I am aware of the relay problems on the ft-102.

Thanks.

21824. Re: [TS-520_820_530_830] Ts-530s question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-20 12:05:19 UTC
From: James Fogg
Topic: 21819 Message: 21824

> When I turn on the rig after it's been off for a few hours the
> vfo light comes on dim and there's no display or reception.
> Tapping the top of the case makes it come on and no problems
> when its running.Cycling the on off switch when it's been on for
> a while it will light up fine. Only after a few hours on
> inactivity that this will happen. I've checked the screws and
> the plug in cables and they are tight. If I turn off the agc It
> will power up sometimes without tapping the case. Anyone ever
> run across this one? 73
> Peter

My 530S does the exact same thing. Until I have time to look into it I'll
just keep tapping the top of the case.

--
James -

21825. Re: R: [TS-520_820_530_830] TS-830S VS. ft-102

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-20 12:31:00 UTC
From: wp3vv1
Topic: 21809 Message: 21825

--- In TS-520_820_530_830@yahoogroups.com, "p.coppin" <copa054@...> wrote:
>
> On my desk I have a TS-830 and Yaesu FT-902. Very often I compare them
> switching quickly the antenna.
> The receiving signals strengths are the same, despite this I prefer the
> TS-830 because it has a better audio quality, warm and enveloping.
> Moreover I think it has a little bit better selectivity.
> 73
> Paul i8ixo
> _____
> Da: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] Per conto di wp3vv1
> Inviato: domenica 19 luglio 2009 15.58
> A: TS-520_820_530_830@yahoogroups.com
> Oggetto: [TS-520_820_530_830] TS-830S VS. ft-102
>
> These rigs are up for sale as today - 07-19-2009. Cosmetically, I feel
> more for the ft-102. As I don't have any experience with these rigs, I would
> like to know if anyone had the opportunity to have them both or at least can
> throw a fair comparison between the two, before I make the purchase. Both
> rigs are in mint condition.
>
> I am aware of the relay problems on the ft-102.
>
> Thanks.
>

Thanks Paul for replying

I decided for the TS-830. I had a deadline to get any of radios yesterday and I figure out that the ts-830 is a simpler circuit to fix.

21826. Re: RCA Tube Date Code

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-20 12:48:05 UTC
From: Dana
Topic: 21790 Message: 21826

Wim,

Thanks for your response. Unfortunately, I don't think it will be quite so simple. The tubes themselves don't seem to have any numeric date code information on them -- only the cryptic gaps in the octagon surrounding the identification. There is the letter "F" enclosed in a square underneath the RCA logo on the base.

There is a gap in the center of the left vertical line, and a gap where the upper left diagonal meets the top horizontal line.

I tested these two tubes over the weekend. One tested "weak", and the other tested "good". Nonetheless, I hope to replace both of them tomorrow and get back on the air.

73,
-- Dana, KA1WPM

--- In TS-520_820_530_830@yahoogroups.com, "Wim Penders" <wpenders@...> wrote:
>
> Dana,
>
> First two digits are the manufacuring year, the second two digits are the week.
>
> Simple, you will find this too on some condensers.
>
> 73, good weekend, Wim PA0PGA
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Dana" <ka1wpm@> wrote:
> >
> > I read that the date code for some RCA tubes is etched into the octagon that contains the identification of the tube. It is supposed to be small gaps in the etching. I see these gaps in my 6146Bs.
> >
> > Does anyone know how to decipher this date code?
> >
> > -- Dana, KA1WPM
> >
>

21827. Re: Ts-530s question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-20 13:14:26 UTC
From: w5rkl
Topic: 21819 Message: 21827

The 530 remote VFO socket does not have/use a jumper plug but rather
a micro switch in the remote VFO DIN socket.

The micro switch, when the remote VFO is not used, shorts pins 3
and 5 of the remote VFO socket together. This applies 9VDC from the
AF UNIT through pins 3 and 5 to power the internal VFO.

When the remote VFO is inserted into the VFO socket, pins 3 and 5
are no longer shorted together and the 9VDC supply from the AF UNIT
is routed through the DIN socket to the remote VFO's "FUNCTION". VFO
selection is controlled by the remote VFO FUNCTION switch.

The micro switch can become dirty which affects it physical movement.
When this occurs the micro switch does not always move properly
which results in intermittent shorting of pins 3 and 5 of the
remote VFO socket. Tapping on the 530's cabinet causes tapping
vibrations to "move" the micro switch allowing the switch to short
pins 3 and 5 together. I do not recommend tapping on the 530. Clean
the switch with contact cleaner.

Give the remote VFO socket a micro switch a shot of contact cleaner
then insert either the remote VFO DIN plug or a dummy DIN plug into
the VFO socket a number of time. This should fix the intermittent
problem you are experiencing.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "James Fogg" <james@...> wrote:
>
> > When I turn on the rig after it's been off for a few hours the
> > vfo light comes on dim and there's no display or reception.
> > Tapping the top of the case makes it come on and no problems
> > when its running.Cycling the on off switch when it's been on for
> > a while it will light up fine. Only after a few hours on
> > inactivity that this will happen. I've checked the screws and
> > the plug in cables and they are tight. If I turn off the agc It
> > will power up sometimes without tapping the case. Anyone ever
> > run across this one? 73
> > Peter
>
>
> My 530S does the exact same thing. Until I have time to look into it I'll
> just keep tapping the top of the case.
>
>
> --

> James -
>

21828. Re: Ts-530s question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-20 16:19:02 UTC
From: hotfoot95404
Topic: 21819 Message: 21828

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> The 530 remote VFO socket does not have/use a jumper plug but rather
> a micro switch in the remote VFO DIN socket.
>
> The micro switch, when the remote VFO is not used, shorts pins 3
> and 5 of the remote VFO socket together. This applies 9VDC from the
> AF UNIT through pins 3 and 5 to power the internal VFO.
>
> When the remote VFO is inserted into the VFO socket, pins 3 and 5
> are no longer shorted together and the 9VDC supply from the AF UNIT
> is routed through the DIN socket to the remote VFO's "FUNCTION". VFO
> selection is controlled by the remote VFO FUNCTION switch.
>
> The micro switch can become dirty which affects it physical movement.
> When this occurs the micro switch does not always move properly
> which results in intermittent shorting of pins 3 and 5 of the
> remote VFO socket. Tapping on the 530's cabinet causes tapping
> vibrations to "move" the micro switch allowing the switch to short
> pins 3 and 5 together. I do not recommend tapping on the 530. Clean
> the switch with contact cleaner.
>
> Give the remote VFO socket a micro switch a shot of contact cleaner
> then insert either the remote VFO DIN plug or a dummy DIN plug into
> the VFO socket a number of time. This should fix the intermittent
> problem you are experiencing.
>
> Mike W5RKL
>
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "James Fogg" <james@> wrote:
> >
> > > When I turn on the rig after it's been off for a few hours the
> > > vfo light comes on dim and there's no display or reception.
> > > Tapping the top of the case makes it come on and no problems
> > > when its running.Cycling the on off switch when it's been on for
> > > a while it will light up fine. Only after a few hours on
> > > inactivity that this will happen. I've checked the screws and
> > > the plug in cables and they are tight. If I turn off the agc It
> > > will power up sometimes without tapping the case. Anyone ever
> > > run across this one? 73
> > > Peter

> >
> >
> > My 530S does the exact same thing. Until I have time to look into it I'll
> > just keep tapping the top of the case.
> >
> >
> > --
> > James -
> >
> Thanks Mike. Thats the info I was looking for.73

Peter

21829. Re: Ts-530s question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-20 18:39:27 UTC
From: w5rkl
Topic: 21819 Message: 21829

You're welcome Peter. Have fun with the 530, that's a great
rig!

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "hotfoot95404" <flyingsub@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > The 530 remote VFO socket does not have/use a jumper plug but rather
> > a micro switch in the remote VFO DIN socket.
> >
> > The micro switch, when the remote VFO is not used, shorts pins 3
> > and 5 of the remote VFO socket together. This applies 9VDC from the
> > AF UNIT through pins 3 and 5 to power the internal VFO.
> >
> > When the remote VFO is inserted into the VFO socket, pins 3 and 5
> > are no longer shorted together and the 9VDC supply from the AF UNIT
> > is routed through the DIN socket to the remote VFO's "FUNCTION". VFO
> > selection is controlled by the remote VFO FUNCTION switch.
> >
> > The micro switch can become dirty which affects it physical movement.
> > When this occurs the micro switch does not always move properly
> > which results in intermittent shorting of pins 3 and 5 of the
> > remote VFO socket. Tapping on the 530's cabinet causes tapping
> > vibrations to "move" the micro switch allowing the switch to short
> > pins 3 and 5 together. I do not recommend tapping on the 530. Clean
> > the switch with contact cleaner.
> >
> > Give the remote VFO socket a micro switch a shot of contact cleaner
> > then insert either the remote VFO DIN plug or a dummy DIN plug into
> > the VFO socket a number of time. This should fix the intermittent
> > problem you are experiencing.
> >
> > Mike W5RKL
> >
> >
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "James Fogg" <james@> wrote:
> > >
> > > > When I turn on the rig after it's been off for a few hours the
> > > > vfo light comes on dim and there's no display or reception.
> > > > Tapping the top of the case makes it come on and no problems

> > > > when its running.Cycling the on off switch when it's been on for
> > > > a while it will light up fine. Only after a few hours on
> > > > inactivity that this will happen. I've checked the screws and
> > > > the plug in cables and they are tight. If I turn off the agc It
> > > > will power up sometimes without tapping the case. Anyone ever
> > > > run across this one? 73
> > > > Peter
> > >
> > >
> > > My 530S does the exact same thing. Until I have time to look into it I'll
> > > just keep tapping the top of the case.
> > >
> > >
> > > --
> > > James -
> > >
> > Thanks Mike. Thats the info I was looking for.73
>
> Peter
>

21830. Re: D104 vs MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-20 21:21:06 UTC
From: Kerry
Topic: 21791 Message: 21830

Well it sounds like I should just keep the MC-50 and go with that. I will just put the D-104 up on the shelf for now right next to the Tuner +3 I have from my 11m SSB days. That is unless someone has a TR7400 they would like to trade for the D-104.

Kerry
KE5OFO - Weatherford Ok.

21831. 830 Plate Choke Value

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-20 23:48:17 UTC
From: Gordon
Topic: 21831 Message: 21831

Does anyone know the value of the Plate choke used in the 830 and 530 radios?
I have the Part number from both manuals, but it does NOT give the value. I need a choke and thought I might just rewind one of these burnt ones. it appears to be around 200 turns on the form, but I would like to know the actual value.

thanks,
Gordon

21832. RK-52 for TS-820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-21 00:19:15 UTC
From: trippkj4bkd
Topic: 21832 Message: 21832

Hello all,

I recently ordered the RK-52 resistor kit from Ken, KE4AA.
Installed resistors. However the 470 Ohm resistor has me confused as I am not sure where it goes so have not put it in. I was under the impression that it was for the Final board but looking at the Final board schematic I can not find one close or the same value to replace. I was wondering has any one else installed this kit and may know where this resitor goes. Perhaps on a different board.

Thanks for any advice.

Tripp
KJ4BKD

21833. Re: 830 Plate Choke Value

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-21 01:03:33 UTC
From: raydeeoh08
Topic: 21831 Message: 21833

Gordon,
Are you referring to the parasitic suppressors?

If you're referring to L1 and L2 their values are 150uH and 470uH respectively.

If you're referring to the parasitic suppressors, no value is given, although I believe I have a notation here somewhere...

Robert

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Does anyone know the value of the Plate choke used in the 830 and 530 radios?
> I have the Part number from both manuals, but it does NOT give the value. I need a choke and thought I might just rewind one of these burnt ones. it appears to be around 200 turns on the form, but I would like to know the actual value.
>
> thanks,
> Gordon
>

21834. Re: [TS-520_820_530_830] Re: 830 Plate Choke Value

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-21 01:17:11 UTC
From: n6wk@n6wk.com
Topic: 21831 Message: 21834

Hi Robert,

I am talking about the L1 plate Choke in the Final Cage which goes to
the Parasitic suppressors then to the Final Tube plate caps.
Not L1 on the Final Unit Board.

73,
Gordon

raydeeoh08 wrote:
>
>
> Gordon,
> Are you referring to the parasitic suppressors?
>
> If you're referring to L1 and L2 their values are 150uH and 470uH
> respectively.
>
> If you're referring to the parasitic suppressors, no value is given,
> although I believe I have a notation here somewhere...
>
> Robert
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Gordon" <n6wk@...> wrote:
> >
> > Does anyone know the value of the Plate choke used in the 830 and
> 530 radios?
> > I have the Part number from both manuals, but it does NOT give the
> value. I need a choke and thought I might just rewind one of these
> burnt ones. it appears to be around 200 turns on the form, but I would
> like to know the actual value.
> >
> > thanks,
> > Gordon
> >
>

21835. Re: 830 Plate Choke Value

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-21 06:35:03 UTC
From: raydeeoh08
Topic: 21831 Message: 21835

I thought that might be the case. Let me check my notes and see if I can find that.

Cheers,
Robert
--- In TS-520_820_530_830@yahoogroups.com, n6wk@... wrote:
>
> Hi Robert,
>
> I am talking about the L1 plate Choke in the Final Cage which goes to
> the Parasitic suppressors then to the Final Tube plate caps.
> Not L1 on the Final Unit Board.
>
> 73,
> Gordon
>
>
>
>
> raydeeoh08 wrote:
> >
> >
> > Gordon,
> > Are you referring to the parasitic suppressors?
> >
> > If you're referring to L1 and L2 their values are 150uH and 470uH
> > respectively.
> >
> > If you're referring to the parasitic suppressors, no value is given,
> > although I believe I have a notation here somewhere...
> >
> > Robert
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "Gordon" <n6wk@> wrote:
> > >
> > > Does anyone know the value of the Plate choke used in the 830 and
> > 530 radios?
> > > I have the Part number from both manuals, but it does NOT give the
> > value. I need a choke and thought I might just rewind one of these
> > burnt ones. it appears to be around 200 turns on the form, but I would
> > like to know the actual value.
> > >
> > > thanks,
> > > Gordon
> > >

> >
>

21836. Re: ts820s crackling noise coming from speaker

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-21 10:36:49 UTC
From: vk4baz
Topic: 21741 Message: 21836

Hello mike and the group

Mike my results as asked

AF! pin 1 9.01 volts
AF2 pin6 3.31volts

HV
800v on R/B actual 923volts
LV
300a ------335volts
300b ------334volts
14v --------14.15

210a --------255v
210b --------256v
STB ---------110v

BIAS SG

-C ----------115V
SG ----------113v

I am not sure what you make of it
The carrier unit and PLL unit was totally stripped pins checked look good to me under the magifier cleaned with crc and deoxit also all the connections the both relays pulled apart and carefully cleaned ,

I just like to add one more thing I did not tell you when replacing the duel smoothing caps before I tuned everything, I wired one the caps wrong way and burnt both rectifier caps but replaced those and correctly wired 4x22 uf 450volts smoothing caps would this cause a problem ,well it caused me a headache,
I also replaced the 4 diodes d8-d10 because I was only getting 12.70volts on the af-avr unit the spec was saying between 13.5 to 15volt which seemed low but did not make much difference when replaced by 1n4004 diodes.

All I can say everything was working beautifully before I short circuited the rf unit onto the chassis

What do you make of it

Barry vk4baz

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Barry,
>
> Check the AF UNIT AF1 and AF2 plugs for the following voltages:

>
> AF1 pin 1 -- Voltage should be 9VDC
> AF2 pin 6 -- Voltage should be 3.3VDC
>
> AF1 pin 1 is the 9VDC supply that is used throughout the 820 for
> both transmit and receive circuitry. If the voltage is not 9VDC,
> adjust VR4 located in the middle of the AF UNIT board so the voltage
> at AF1 pin 1 is 9VDC.
>
> AF2 pin 6 is the 3.3VDC bias voltage that also is used throughout
> the 820. If the voltage is not 3.3VDC, adjust VR1 located between
> plugs AF1 and AF2. so the voltage at AF2 pin 6 is 3.3VDC.
>
> Adjust the 9VDC first then adjust the 3.3VDC. The reason is the
> 3.3VDC is produced from the 9VDC source.
>
> Over time the PLL and CAR UNIT assemblies interconnecting pins
> have corrosion build up on the fix pins inside the metal enclosures.
> This affects the PLL and CAR UNIT signals used in both transmit
> and receive. To clean these pins, both the PLL UNIT and the CAR UNIT
> assemblies must be removed.
>
> Each of these assemblies consist of 2 circuit boards that interconnect
> through fixed pins inside the metal enclosures. Remove each
> assembly, remove the top and bottom covers, then remove each board
> and clean the pins. Clean the sockets as well then install each
> board back into the metal enclosure, replace the covers, and install
> the assembly back into the 820. Do this to both assemblies.
>
> I also recommend removing the relay on the RELAY UNIT, clean the
> pins then remove the outer plastic cover and clean the relay contacts
> with contact cleaner. Both receive and transmit control signals flow
> through this relay. Corrosion can present a high resistance to
> signals which can affect both transmit and receive. For example, the
> "AGL" line which is the path for receiver "AGC" and transmitter "ALC"
> control voltages. The "AGL" is a common path that serves both
> transmit and receive gain control signals. The "AGL" line terminates
> on the "IF UNIT".
>
> The T/R relay, located on the bottom near the rear of the FINAL UNIT,
> inside the small metal enclosure, does not affect the Marker
> signal. The Marker signal flows directly from the MARKER UNIT to the
> COIL PACK UNIT. This relay will, if carbon build up occurs on the
> relay contacts, affect the receive signal. The relay is the same as
> the relay on the RELAY UNIT.
>
> Measuring the DC voltages is done at the Rectifier Unit. Voltages
> can be measured elsewhere but this is the easiest way to do it.
>
> Use the 820's service manual and measure the voltages as follows:

>
> HV:
>
> Positive lead to the Rectifier Unit's "800" terminal and negative
> lead to the chassis.
>
> LV:
>
> Postive lead to 300A negative to chassis.
> Positive lead to 300B negative to chassis.
> Positive lead to 14 negative to chassis.
>
> Positive lead to 210A negative to chassis.
> Positive lead to 210B negative to chassis.
> Positive lead to STB negative to chassis.
>
> Bias and SG:
>
> Negative lead to -C positive to chassis
> Negative lead to SG positive to chassis
>
>
> There are similar terminal labeling that have "AC" as part of the
> terminal label. These are the power transformer's secondary windings.
>
> I would not recommend adjusting the COIL PACK UNIT until a thorough
> cleaning of ALL board pins, plugs, and ground connections. The PLL
> and CAR UNIT assemblies, for example, are common to both transmit and
> receive. If the internal interconnecting pins in each assembly are
> dirty/corroded both transmit and receive will be affected.
>
> Mike W5RKL
>
>
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@> wrote:
> >
> > Hello mike and the group
> >
> > The 820s was working fine until the arching was present on the RF unit with that fixed all ok,But my ALC has dispeared very little output on cw rf mode about 50 ma ,checked all resisters on the HV all appeared ok even pulled them out to check all within range,I have noticed the s meter does not register the 25khz marker on all bands either,but before everthing was adjusted within range ,I can't get the s meter to peak to S9 using the 25khz maker and adjusting vr2 on the IF unit,
> > Also the transformer what is the correct way to measure the voltage I am reading far less than 800v and a couple of others as well but it could be I am not doing it correctly,

> >
> > Barry vk4baz
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > >
> > > Barry,
> > >
> > > I do not have a 520S but I do have an 820 and I'm quite familiar how
> > > the RF and COIL UNIT board mount in the 820. Unfortunately, your
> > > initial explanation didn't make sense to me but your most recent
> > > explanation does make sense.
> > >
> > > I assume you have fixed the RF UNIT's incorrect mounting and no
> > > longer have the arcing problem. It also appears that you have
> > > replaced the driver tube.
> > >
> > > Have you attempted to tune the 820 up in CW mode? If so, what output
> > > power does the 820 produce?
> > >
> > > If the 820 tunes up in CW mode, have you checked the HV UNIT
> > > resistors, R5 and R6, both 56K 1/2 watt? If one or both of these
> > > resistors fail, increase significantly in resistance, there will be
> > > zero ALC indication on the meter in TUNE mode even if you can tune
> > > for full output in CW mode!
> > >
> > > Mike W5RKL
> > >
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@> wrote:
> > > >
> > > > Mike,
> > > >
> > > > Its not that hard to picture you have to have the 820s not a 520s in front of you
to understand what I am saying ,the RF board I will call it a board for now which has the
driver tube at the horizontal plane above the coil pack,this board as we all know plugs
into 3 slots,if you go to the very top of the board, (finals end), you have a holding lug
which holds the board in place ,its very easy for the screw to go through the lug first
then the board the right way is the screw goes through the board first then the lug ,if it
accidently goes the wrong way then the sharp end of the lug is very close to the circuit
tracks as in my case due to moving the radio around which flexis without the covers on
,just happen touch and short itself hence the crackling and squeal in the receiver,so I
hope you are following me mike my english is probably differcult,what I am worried about is
I have no ALC The driver is new so I changed it just in case,
> > > >
> > > > Barry vk4baz
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > > > >

> > > > > Barry,
> > > > >
> > > > > Then I am having a difficult time understanding how the RF UNIT can be installed incorrectly since it plugs into the COIL PACK UNIT and
> > > > > can only be installed one way. In addition, the COIL PACK UNIT can
> > > > > only be installed one way as well.
> > > > >
> > > > > Mike W5RKL
> > > > >
> > > > >
> > > > >
> > > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@> wrote:
> > > > > >
> > > > > >
> > > > > >
> > > > > > mike,
> > > > > >
> > > > > > Yes thats it
> > > > > >
> > > > > >
> > > > > > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > > > > > >
> > > > > > > Barry,
> > > > > > >
> > > > > > > I'm confused as to what your term "RF BOARD" means? Are you talking
> > > > > > > about the RF UNIT, the board with the driver tube?
> > > > > > >
> > > > > > > Mike W5RKL
> > > > > > >
> > > > > > >
> > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@> wrote:
> > > > > > > >
> > > > > > > > Mike,
> > > > > > > >
> > > > > > > > What I found it to be was when I purchased this rig it look like someone has had the rf board out ,when they put it back they put it back the wrong way up stream of the holding screw instead of downstream so with movement it shorted the frame onto the circuit board ,now I am worried It has blown something because my Alc is gone the driver tube is new, Thats why it sounded like arching in the receiver I only saw the sparks when moving the radio frame about thus the smell as well ,would this blow the driver tube as I replaced it twice, I am a not happy jan right now,what do you think
> > > > > > > >
> > > > > > > > Barry vk4baz
> > > > > > > >
> > > > > > > >
> > > > > > > >
> > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > > > > > > > >
> > > > > > > > > Hello Barry,

> > > > > > > > > >
> > > > > > > > > > > If turning the heater switch ON and OFF causes the noise to
> > > > > > > > > > > appear and disappear, most likely one of the tubes is arcing
> > > > > > > > > > > internally. I suspect the driver tube.
> > > > > > > > > > >
> > > > > > > > > > > ALC is only created when GRID CURRENT flows in the final tubes. The
> > > > > > > > > > > only time GRID CURRENT flows in the final tubes is when the
> > > > > > > > > > > driver's signal is sufficient to cause the final tube grids to be
> > > > > > > > > > > "positive".
> > > > > > > > > > >
> > > > > > > > > > > It is quite possible a bad driver tube can be causing your problem.
> > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > > > Mike W5RKL
> > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "vk4baz" <dellthorp@> wrote:
> > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > > > Hello to the group
> > > > > > > > > > >
> > > > > > > > > > > I have a weird one for you need to pick your brain,I was aligning the
ts 820s and noticed after I had finished tuning ,I started to get heavy static from the
receiver ,when I turned the heater switch the sound changes pitch after 15 seconds then the
noise quits suddenly ,I recently replaced all the caps and tested each board before moving
on to the next,the only caps not replaced yet is the smoothing caps which are on order,
> > > > > > > > > >
> > > > > > > > > > > I have had a good look for any broken wires and went back over the
tuning I also noticed after the tune my alc is very hard to adjust its either to much or
too liitle very differcult to get it right .
> > > > > > > > > >
> > > > > > > > > > > what do you reckon
> > > > > > > > > > >
> > > > > > > > > > > Barry vk4baz
> > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > > >

21837. Re: RK-52 for TS-820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-21 12:33:21 UTC
From: Dana
Topic: 21832 Message: 21837

Tripp,

Could it be on the Rectifier Unit? I have a TS-830S, and there is a 470 ohm 1 watt metal film resistor populated on that board. There is also a picture of this resistor on Ken's page explaining why not to supersize the resistors.

73,
-- Dana, KA1WPM

--- In TS-520_820_530_830@yahoogroups.com, "trippkj4bkd" <thomasenglish3@...> wrote:
>
> Hello all,
>
> I recently ordered the RK-52 resistor kit from Ken, KE4AA.
> Installed resistors. However the 470 Ohm resistor has me confused as I am not sure where it goes so have not put it in. I was under the impression that it was for the Final board but looking at the Final board schematic I can not find one close or the same value to replace. I was wondering has any one else installed this kit and may know where this resitor goes. Perhaps on a different board.
>
> Thanks for any advice.
>
> Tripp
> KJ4BKD
>

21838. Re: [TS-520_820_530_830] Re: D104 vs MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-21 12:56:03 UTC
From: Kurt Cathcart
Topic: 21791 Message: 21838

Kerry -

I use my D-104 with my Kenwood Twins. Everybody says I have great audio. I did take out the amplifier and add the the Heil upgrade kit to it though so it's really not a D-104 any more. But if you like the style of the D-104 and the performance of Heil then that's a good way to go.

-Kurt
kr2c

----- Original Message -----
From: Kerry
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, July 20, 2009 5:21 PM
Subject: [TS-520_820_530_830] Re: D104 vs MC-50

Well it sounds like I should just keep the MC-50 and go with that. I will just put the D-104 up on the shelf for now right next to the Tuner +3 I have from my 11m SSB days. That is unless someone has a TR7400 they would like to trade for the D-104.

Kerry
KE5OFO - Weatherford Ok.

[Non-text portions of this message have been removed]

21839. RE: [TS-520_820_530_830] Re: D104 vs MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-21 13:07:41 UTC
From: brad
Topic: 21791 Message: 21839

Kerry, You really don't need all that amplification in mics. I found one of the better mics to be a Turner 444. It has superb audio quality, but if you like the "chicken choker" style mic, replace the element with a Heil. You will really have some great quality then. Brad KB2CHY

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Kurt Cathcart
Sent: Tuesday, July 21, 2009 08:56
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: D104 vs MC-50

Kerry -

I use my D-104 with my Kenwood Twins. Everybody says I have great audio. I did take out the amplifier and add the the Heil upgrade kit to it though so it's really not a D-104 any more. But if you like the style of the D-104 and the performance of Heil then that's a good way to go.

-Kurt
kr2c

----- Original Message -----
From: Kerry
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
Sent: Monday, July 20, 2009 5:21 PM
Subject: [TS-520_820_530_830] Re: D104 vs MC-50

Well it sounds like I should just keep the MC-50 and go with that. I will just put the D-104 up on the shelf for now right next to the Tuner +3 I have from my 11m SSB days. That is unless someone has a TR7400 they would like to trade for the D-104.

Kerry
KE5OFO - Weatherford Ok.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

21840. Wanted YG-455CN or CN-1 Filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-21 13:46:14 UTC
From: Pedro Carlos Pocciotti
Topic: 21840 Message: 21840

Wanted YG-455CN or CN-1.
If you have one for sale, please contact.

Thank´s

Pedro - PY2OK

21841. Re: D104 vs MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-21 16:56:37 UTC
From: AllanKB5DOH
Topic: 21791 Message: 21841

Hi Kerry, This question has been around the globe 4-fold and it boils down to one thing and that is the prefferance of the owner/ham operator, here is what I have found.

With the MC-50 or MC-60 very good I have tried the Shure 444 and couple of other Shure mics, I even tried the D-10 and Turner amp mics, but from coast to coast and Canada and a few other places this is the report I get on the different mics.

They all have different audio quality's they all sound good but the best report I always got was the D-104 non-amplified and using the mic-gain they said gave me more drive more punch with my Kenwood this seems to be true with my Swan and Siltronix radios so it really comes down to what you like and the D-104 puts you voice tone in a range that all can hear what I mean by all can hear is some guys have a hearing loss with the human ear and the D-104 seems to help them hear me. Do a test like I did I had a friend record the qso we had one day and I would switch mics during the qso when all was said and done I liked the D-104, 2nd place was the Turner Plus-3 3rd place was the MC-60 and the others well for what I was wanting in get out my signal the D-104 won hands down.

So now it is up to you and only you it is your radio and what you want more drive, sweet sound, or a pretty mic.

Allan = kb5doh 73 & God Bless to you and yours.

--- In TS-520_820_530_830@yahoogroups.com, "Kerry" <ke5ofo@...> wrote:
>
> Well it sounds like I should just keep the MC-50 and go with that. I will just put the D-104 up on the shelf for now right next to the Tuner +3 I have from my 11m SSB days. That is unless someone has a TR7400 they would like to trade for the D-104.
>
> Kerry
> KE5OFO - Weatherford Ok.
>

[Non-text portions of this message have been removed]

21842. Re: RK-52 for TS-820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-21 17:52:53 UTC
From: w5rkl
Topic: 21832 Message: 21842

Tripp,

Dana's right, there are two 470 ohm resistors on the Rectifier Unit, R5 and R6, R5 in the 300A supply and R6 in the 210A supply. If both R5 and R6 on the Rectifier Unit are good, measure 470 ohms or very close to it then you probably do not need to change either of them.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Dana" <ka1wpm@...> wrote:
>
> Tripp,
>
> Could it be on the Rectifier Unit? I have a TS-830S, and there is a 470 ohm 1 watt metal film resistor populated on that board. There is also a picture of this resistor on Ken's page explaining why not to supersize the resistors.
>
> 73,
> -- Dana, KA1WPM
>
> --- In TS-520_820_530_830@yahoogroups.com, "trippkj4bkd" <thomasenglish3@> wrote:
> >
> > Hello all,
> >
> > I recently ordered the RK-52 resistor kit from Ken, KE4AA.
> > Installed resistors. However the 470 Ohm resistor has me confused as I am not sure where it goes so have not put it in. I was under the impression that it was for the Final board but looking at the Final board schematic I can not find one close or the same value to replace. I was wondering has any one else installed this kit and may know where this resitor goes. Perhaps on a different board.
> >
> > Thanks for any advice.
> >
> > Tripp
> > KJ4BKD
> >
>

21843. TS830 low voltage from transformer tap 12.6v lead

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-21 17:49:40 UTC
From: mmurphey2
Topic: 21843 Message: 21843

I recently purchased a TS830 that was supposed to be in good condition. After not being able to make any contacts, I asked a local Elmer to check it out for me. I took it to him and he put it on his bench. He quickly found that it had no output on any band. He soon showed me the varnish on the inside of the bottom cover (which he said had been cleaned up to hide a problem). He traced the source to one of the big black capacitors - he replaced it. He then checked the voltages on the transformer taps - all were good except the 12.6v lead used for the pilot lights and tube heaters. That lead only showed 11.5 volts. When he turned on the heater switch the voltage on that lead went to zero volts. The heater switch seems to test ok. I suspect I am in possession of a badly modified TS830.

I have been searching the web and found numerous citations of problems associated with a QRO modification of the 830 but cannot find an accurate description of the modification. I am hoping to find it so that we can use it to find out if this radio has indeed been modified. And, if modified , put it back to its original specifications.

Also, I would appreciate any guidance from someone familiar with the TS830 internals.

Thank you in advance for any assistance given.

Mike
KI4WWG

21844. Re: TS830 low voltage from transformer tap 12.6v lead

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-21 21:12:54 UTC
From: w5rkl
Topic: 21843 Message: 21844

Hello Mike,

Your tech found traces of "varnish" on the inside of the bottom cover. He said he traced the source of the varnish to a big black capacitor.

I assume the big black capacitor your tech is talking about is one of two 100ufd 500VDC black electrolytic capacitors that mount on the chassis using round clamps, directly behind the VFO. Is this correct?

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "mmurphey2" <mmurphey2@...> wrote:
>
> I recently purchased a TS830 that was supposed to be in good condition. After not being able to make any contacts, I asked a local Elmer to check it out for me. I took it to him and he put it on his bench. He quickly found that it had no output on any band. He soon showed me the varnish on the inside of the bottom cover (which he said had been cleaned up to hide a problem). He traced the source to one of the big black capacitors - he replaced it. He then checked the voltages on the transformer taps - all were good except the 12.6v lead used for the pilot lights and tube heaters. That lead only showed 11.5 volts. When he turned on the heater switch the voltage on that lead went to zero volts. The heater switch seems to test ok. I suspect I am in possession of a badly modified TS830.
>
> I have been searching the web and found numerous citations of problems associated with a QRO modification of the 830 but cannot find an accurate description of the modification. I am hoping to find it so that we can use it to find out if this radio has indeed been modified. And, if modified , put it back to its original specifications.
>
> Also, I would appreciate any guidance from someone familiar with the TS830 internals.
>
> Thank you in advance for any assistance given.
>
> Mike
> KI4WWG
>

21845. Re: TS830 low voltage from transformer tap 12.6v lead

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-21 21:24:36 UTC
From: w5rkl
Topic: 21843 Message: 21845

One additional comment.

Lets not jump to conclusion you have purchased a badly QRO modified 830 just yet. Lets look at a few more things first before making that determination.

Where on the bottom cover is the "varnish" stain located? Is the stain directly below the 2 HV filter capacitors? The 2 HV filter capacitors are directly behind the VFO, between the power transformer and the VFO.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello Mike,
>
> Your tech found traces of "varnish" on the inside of the bottom
> cover. He said he traced the source of the varnish to a big black
> capacitor.
>
> I assume the big black capacitor your tech is talking about is one
> of two 100ufd 500VDC black electrolytic capacitors that mount on the
> chassis using round clamps, directly behind the VFO. Is this correct?
>
> Mike W5RKL
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "mmurphey2" <mmurphey2@> wrote:
> >
> > I recently purchased a TS830 that was supposed to be in good condition. After not being able to make any contacts, I asked a local Elmer to check it out for me. I took it to him and he put it on his bench. He quickly found that it had no output on any band. He soon showed me the varnish on the inside of the bottom cover (which he said had been cleaned up to hide a problem). He traced the source to one of the big black capacitors - he replaced it. He then checked the voltages on the transformer taps - all were good except the 12.6v lead used for the pilot lights and tube heaters. That lead only showed 11.5 volts. When he turned on the heater switch the voltage on that lead went to zero volts. The heater switch seems to test ok. I suspect I am in possession of a badly modified TS830.
> >
> > I have been searching the web and found numerous citations of problems associated with a QRO modification of the 830 but cannot find an accurate description of the modification. I am hoping to find it so that we can use it to find out if this radio has indeed been modified. And, if modified , put it back to its original specifications.
> >

> > Also, I would appreciate any guidance from someone familiar with the TS830 internals.
> >
> > Thank you in advance for any assistance given.
> >
> > Mike
> > KI4WWG
> >
>

21846. Old Kenwood Net???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-21 22:14:12 UTC
From: Hector (Luigi) Perez
Topic: 21843 Message: 21846

I wonder if anyone can tell me if there is an Vintage Kenwood Net for TS-520s or TS-820S users; id so, please kindly let me know any details

Hector NP4FW

[Non-text portions of this message have been removed]

21847. need filter for ts-830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-21 21:56:56 UTC
From: yash@aol.com
Topic: 21847 Message: 21847

I need the solder in filter for the first if?? 8830mhz . the filter is a 2.4 kc? the kenwood # is YK-88S1, another # on the filter is l-71-0222-05. the filter in my rig is open.
thanks for any help .
dale wt4t

[Non-text portions of this message have been removed]

21848. Re: RK-52 for TS-820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-22 04:22:29 UTC
From: trippkj4bkd
Topic: 21832 Message: 21848

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Tripp,
>
> Dana's right, there are two 470 ohm resistors on the Rectifier Unit,
> R5 and R6, R5 in the 300A supply and R6 in the 210A supply. If
> both R5 and R6 on the Rectifier Unit are good, measure 470 ohms or
> very close to it then you probably do not need to change either of
> them.
>
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Dana" <ka1wpm@> wrote:
> >
> > Tripp,
> >
> > Could it be on the Rectifier Unit? I have a TS-830S, and there is a 470 ohm 1 watt metal film resistor populated on that board. There is also a picture of this resistor on Ken's page explaining why not to supersize the resistors.
> >
> > 73,
> > -- Dana, KA1WPM
> >
> >

Thanks both Dana and Mike it is the Rectifier Unit. I will check and replace if needed. All ive got to say for my self is Duh! As I have seen that picture numerous times while on Kens site.But when doing the work it could not come to me at all. So Thanks again for the help and quick reply. You Guys are the best. And maybe later I will come up with a challenging question.

Tripp, KJ4BKD

21849. Re: D104 vs MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-22 06:25:45 UTC
From: p.coppin
Topic: 21791 Message: 21849

I have MC-50, MC-60 and Shure 444. In each one I have replaced the cartridge with Heil HC-5 (I tested the HC-4 cartridge too).

In my opinion the HC-5 is the best for all around.

Paul i8ixo

Da: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] Per conto di Kurt Cathcart
Inviato: martedì 21 luglio 2009 14.56
A: TS-520_820_530_830@yahoogroups.com
Oggetto: Re: [TS-520_820_530_830] Re: D104 vs MC-50

Kerry -

I use my D-104 with my Kenwood Twins. Everybody says I have great audio. I did take out the amplifier and add the the Heil upgrade kit to it though so it's really not a D-104 any more. But if you like the style of the D-104 and the performance of Heil then that's a good way to go.

-Kurt
kr2c

----- Original Message -----
From: Kerry
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
Sent: Monday, July 20, 2009 5:21 PM
Subject: [TS-520_820_530_830] Re: D104 vs MC-50

Well it sounds like I should just keep the MC-50 and go with that. I will just put the D-104 up on the shelf for now right next to the Tuner +3 I have from my 11m SSB days. That is unless someone has a TR7400 they would like to trade for the D-104.

Kerry
KE5OFO - Weatherford Ok.

-'-.-'---

[Non-text portions of this message have been removed]

21850. Re: [TS-520_820_530_830] TS830 low voltage from transformer tap 12.6v lead

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-22 14:04:21 UTC
From: John Davidson
Topic: 21843 Message: 21850

sounds like the filament winding on the power xfmr iseither shorted or has a bad internal connection to the outside connections. look for a new xfmr.

--- On Tue, 7/21/09, mmurphey2 <mmurphey2@...> wrote:

From: mmurphey2 <mmurphey2@...>
Subject: [TS-520_820_530_830] TS830 low voltage from transformer tap 12.6v lead
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, July 21, 2009, 1:49 PM

I recently purchased a TS830 that was supposed to be in good condition. After not being able to make any contacts, I asked a local Elmer to check it out for me. I took it to him and he put it on his bench. He quickly found that it had no output on any band. He soon showed me the varnish on the inside of the bottom cover (which he said had been cleaned up to hide a problem). He traced the source to one of the big black capacitors - he replaced it. He then checked the voltages on the transformer taps - all were good except the 12.6v lead used for the pilot lights and tube heaters. That lead only showed 11.5 volts. When he turned on the heater switch the voltage on that lead went to zero volts. The heater switch seems to test ok. I suspect I am in possession of a badly modified TS830.

I have been searching the web and found numerous citations of problems associated with a QRO modification of the 830 but cannot find an accurate description of the modification. I am hoping to find it so that we can use it to find out if this radio has indeed been modified. And, if modified , put it back to its original specifications.

Also, I would appreciate any guidance from someone familiar with the TS830 internals.

Thank you in advance for any assistance given.

Mike
KI4WWG

[Non-text portions of this message have been removed]

21851. Re: [TS-520_820_530_830] TS830 low voltage from transformer tap 12.6v lead

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-22 22:41:10 UTC
From: Daniel TOESCA
Topic: 21843 Message: 21851

Hello Mike,

If the filament winding of your power transformer is really open BUT all of the other voltages, that is +800 +300 -150 (no schematic, only memory) are OK, you can always go the cheap way and find an external 12.6 volt transformer with enough amperes to do the job. It has to warm both 6146, the 12BY7A and the pilot lamps, easy to figure how many amps are needed. Simple low voltage connectors and wiring. Maybe you can use the blower power plug to feed it.

But, before giving away with your Xformer, check the wiring for cold solder joints, etc.. quite common with oldies.

Hope it helps.

Good luck & 73's - Daniel, ON5PY

2009/7/21, mmurphey2 <mmurphey2@...>:
>
>
>
> I recently purchased a TS830 that was supposed to be in good condition.
> After not being able to make any contacts, I asked a local Elmer to check it
> out for me. I took it to him and he put it on his bench. He quickly found
> that it had no output on any band. He soon showed me the varnish on the
> inside of the bottom cover (which he said had been cleaned up to hide a
> problem). He traced the source to one of the big black capacitors - he
> replaced it. He then checked the voltages on the transformer taps - all were
> good except the 12.6v lead used for the pilot lights and tube heaters. That
> lead only showed 11.5 volts. When he turned on the heater switch the voltage
> on that lead went to zero volts. The heater switch seems to test ok. I
> suspect I am in possession of a badly modified TS830.
>
> I have been searching the web and found numerous citations of problems
> associated with a QRO modification of the 830 but cannot find an accurate
> description of the modification. I am hoping to find it so that we can use
> it to find out if this radio has indeed been modified. And, if modified ,
> put it back to its original specifications.
>
> Also, I would appreciate any guidance from someone familiar with the TS830
> internals.
>
> Thank you in advance for any assistance given.
>
> Mike

> KI4WWG
>
>
>

[Non-text portions of this message have been removed]

21852. Re: [TS-520_820_530_830] TS830 low voltage from transformer tap 12.6v lead

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-22 22:54:29 UTC
From: Gordon JC Pearce
Topic: 21843 Message: 21852

On Tue, 2009-07-21 at 17:49 +0000, mmurphey2 wrote:
> one of the big black capacitors - he replaced it. He then checked the
> voltages on the transformer taps - all were good except the 12.6v lead
> used for the pilot lights and tube heaters. That lead only showed 11.5
> volts. When he turned on the heater switch the voltage on that lead
> went to zero volts. The heater switch seems to test ok. I suspect I am
> in possession of a badly modified TS830.

It's possible that there is a short somewhere else in the radio. If you measure across the heater terminals of the PA valves, does it seem "reasonable"? Try hooking a car sidelamp bulb across the heater winding with the rest of the heater circuit disconnected (ie. only powering the bulb) - the 5W load is a bit less than the load of one PA valve. If it fails to light that, the transformer is stuffed.

Usual caveats and warnings about not SKing yourself with the 800V supply, etc.

Gordon 2M0YEQ

21853. Re: TS830 low voltage from transformer tap 12.6v lead

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-22 23:38:12 UTC
From: Gary
Topic: 21843 Message: 21853

--- In TS-520_820_530_830@yahoogroups.com, Daniel TOESCA <ON5PY1967@...> wrote:
>
>Mike
The old TV sets used a single piece of braided wire as a fuse for the filiment windings. Look for the remenants of a blown fuse or some kind or protection before you throw out the xformer.
KC0NPJ Gary

21854. TS-830S-low output/no indication of ALC on 10 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-23 01:20:06 UTC
From: Jim McPhee
Topic: 21843 Message: 21854

Good evening:

I continue to have issues with the TS-830s that I bought about two months ago. I have yet to make a contact on 10 meters, the only phone band available to me with my Technician class license.

Question/issue:
No ALC level at all when tuning the transmitter on 10 meters. There used to be, when I first got the rig, but not now. Output on 10 meters, according to meter on the MFJ-949 that I use for the dummy load, is about 50 watts. Output on other bands, is 100 watts or close to it.

Background:
I bought the TS-830S off ebay from a ham. He indicated that although it was a backup rig that received little use in the 10(?) years that he had owned it, and that he used it to make contacts prior to putting it up for sale.
Output was low on 10 meters when I got it, so I invested in matched pair of 6146Ws and a new driver tube.
I had it equalized by a ham gear tech near here in Albuquerque after my attempts appeared futile. (Already discussed on this forum.)
Output remained the same, about 80 watts according to the meter on the MFJ 949D that I was using the dummy load on.
It has appeared that the output was higher(80 watts) when the rig was recently turned on than when it had been on for a couple of hours (50 watts).

Current status:
When tuning up the xmitter for 10 meters now, 28.375 specifically, there is virtually no meter movement with the meter set to ALC. This is regardless of where the carrier control is set.

ALC "used to" show significant strength on 10 meters.

Output on 10 meters has diminished to about 50 watts, or a little below.

ALC continues to show significant strength on 20 and 12 meters, when I tune-up on those bands, just for comparison. Output into the dummy load on those bands is about 100 watts.

I've installed the following from Ken Kemski, K4EAA:
High-Voltage repair
Final Cage Partial Repair kit.
I have not yet installed Ken's "resistor kit for final repair" although I have it here .

I look forward to your responses regarding potential solutions for this problem.

Regards,

Jim McPhee
Placitas, NM
KF5BNG

[Non-text portions of this message have been removed]

21855. TS-830S L41 Coil

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-23 04:51:06 UTC
From: Gordon
Topic: 21855 Message: 21855

Well, I rewound my first L41 Coil on the RF board of an 830S today.
It turned out very nice and tunes easily to its peak. Working with the small wire required my magnifying headset, but all was well in the end.
Now I know I can simply rewind these coils since they are impossible to find and often are shorted due to lightning or high exposure to local RF.

73,
Gordon

21856. TS-830S tuning Rate

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-23 04:52:32 UTC
From: Gordon
Topic: 21856 Message: 21856

I know there is a Mod to change the tuning rate on a VFO-230, but is there a Mod to slow down the tuning rate on a TS-830S internal VFO ?

Thanks,
Gordon
N6WK

21857. Re: [TS-520_820_530_830] TS-830S L41 Coil

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-23 05:09:23 UTC
From: Ruben Echevarria
Topic: 21855 Message: 21857

Very good Gordon ... Now everyone will send them to you...
 Ruben Echevarria KA2HHB
SKCC #2132 EPC#3390 070 Club#861
10-10 International Club #33308
30Meter Digital Group #1148

From: Gordon <n6wk@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, July 23, 2009 12:51:06 AM
Subject: [TS-520_820_530_830] TS-830S L41 Coil

Well, I rewound my first L41 Coil on the RF board of an 830S today.
It turned out very nice and tunes easily to its peak. Working with the small wire required my magnifying headset, but all was well in the end.
Now I know I can simply rewind these coils since they are impossible to find and often are shorted due to lightning or high exposure to local RF.

73,
Gordon

[Non-text portions of this message have been removed]

21858. DG-5 Failure

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-23 05:46:31 UTC
From: scott10k
Topic: 21858 Message: 21858

My DG-5 suddenly emitted a little smoke from the back of the case and stopped showing any display. I removed the PCB from the case and noted that with DC voltage applied from the TS-520S, the power resistors R-125, R-126, and R-129 were getting extremely hot, so I shut the unit off. Any ideas of how I could determine what may have happened and how to fix it will be appreciated.
TNX and 73s, Scott, N6CIC

21859. Re: [TS-520_820_530_830] TS-830S-low output/no indication of ALC on 10 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-23 05:53:23 UTC
From: martin
Topic: 21843 Message: 21859

Hi Jim. 80 watts (CW) is about right for 10M with these radios. The tubes, especially the 12BY7a just do not operate as efficiently on 10M as they do on lower frequencies.

First, check the and replace (if necessary) the resisters. Then, check the 12BY7a driver tube. Usually 10M is the first band to show low output when the driver starts to go. using excessive ALC/mic gain can shorten the life of the driver tube. Always keep the ALC reading within the marked ALC scale when tuning up, and when operating.

BTW, the difference between 80 watts and 100 watts would barely (if at all) noticeable at the receiving station. To get an improvement of 1 S-unit at the receiving station, the transmitting station has to put out 4 times the power.

As to 10M, while there have been a few openings lately, it is still mostly dead.

TTYL

Jim McPhee wrote:
> Good evening:
>
> I continue to have issues with the TS-830s that I bought about two
> months ago. I have yet to make a contact on 10 meters, the only
> phone band available to me with my Technician class license.
>
>
> Question/issue: No ALC level at all when tuning the transmitter on
> 10 meters. There used to be, when I first got the rig, but not
> now. Output on 10 meters, according to meter on the MFJ-949 that I
> use for the dummy load, is about 50 watts. Output on other bands,
> is 100 watts or close to it.
>
--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at http://www.defectivebydesign.org/what_is_drm"

21860. Re: [TS-520_820_530_830] TS-830S-low output/no indication of ALC on 10 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-23 06:44:49 UTC
From: Gordon JC Pearce
Topic: 21843 Message: 21860

On Wed, 2009-07-22 at 19:20 -0600, Jim McPhee wrote:

> I have not yet installed Ken's "resistor kit for final repair" although I
> have it here .
>
> I look forward to your responses regarding potential solutions for this
> problem.

Think you've pretty much nailed the problem there. If it's worse when hot, it does sound awfully like a resistor going high in value. Bear in mind that the high voltage section will be full of 20-year-old carbon comp resistors. These seem to be good at failing by going high in value, particularly when used with high voltages - old TV brightness circuit resistors spring to mind.

There was an interesting article about why metal film resistors are perfectly okay at RF in Radcomm this month - basically although they *are* a spiral of resistive material (and thus on the face of it they look like they'd be inductive) they have an inductance measured in nH at worst.

Gordon 2M0YEQ

21861. Re: [TS-520_820_530_830] Re: ts820s crackling noise coming from speaker

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-23 11:09:12 UTC
From: Barry Travers
Topic: 21741 Message: 21861

Hello to the group

Does anybody know what would be shorting out near Q5 on the RF unit or maybe Q5 is shorted or what would be causing a short ,I am noticing smoke coming from that area looks like the 0.47uf 50volt cap has been getting hot I replaced it but still doing it when the heaters are turned as well as crackling sounds heard in the receiver again ,only when the heater switch is on this time

barry vk4baz
--- On Tue, 7/21/09, vk4baz <dellthorp@...> wrote:

From: vk4baz <dellthorp@...>
Subject: [TS-520_820_530_830] Re: ts820s crackling noise coming from speaker
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, July 21, 2009, 10:36 AM

Hello mike and the group

Mike my results as asked

AF! pin 1 9.01 volts
AF2 pin6 3.31volts

HV
800v on R/B actual 923volts
LV
300a ------335volts
300b ------334volts
14v --------14.15

210a --------255v
210b --------256v
STB ---------110v

BIAS SG

-C ----------115V
SG ----------113v

I am not sure what you make of it
The carrier unit and PLL unit was totally stripped pins checked look good to me under the magifier cleaned with crc and deoxit also all the connections the both relays pulled apart and carefully cleaned ,

I just like to add one more thing I did not tell you when replacing the duel smoothing caps before I tuned everything, I wired one the caps wrong way and burnt both rectifier caps but

replaced those and correctly wired 4x22 uf 450volts smoothing caps would this cause a problem ,well it caused me a headache,
I also replaced the 4 diodes d8-d10 because I was only getting 12.70volts on the af-avr unit the spec was saying between 13.5 to 15volt which seemed low but did not make much difference when replaced by 1n4004 diodes.

All I can say everything was working beautifully before I short circuited the rf unit onto the chassis

What do you make of it

Barry vk4baz

--- In TS-520_820_530_ 830@yahoogroups. com, "w5rkl" <w5rkl@...> wrote:
>
> Barry,
>
> Check the AF UNIT AF1 and AF2 plugs for the following voltages:
>
> AF1 pin 1 -- Voltage should be 9VDC
> AF2 pin 6 -- Voltage should be 3.3VDC
>
> AF1 pin 1 is the 9VDC supply that is used throughout the 820 for
> both transmit and receive circuitry. If the voltage is not 9VDC,
> adjust VR4 located in the middle of the AF UNIT board so the voltage
> at AF1 pin 1 is 9VDC.
>
> AF2 pin 6 is the 3.3VDC bias voltage that also is used throughout
> the 820. If the voltage is not 3.3VDC, adjust VR1 located between
> plugs AF1 and AF2. so the voltage at AF2 pin 6 is 3.3VDC.
>
> Adjust the 9VDC first then adjust the 3.3VDC. The reason is the
> 3.3VDC is produced from the 9VDC source.
>
> Over time the PLL and CAR UNIT assemblies interconnecting pins
> have corrosion build up on the fix pins inside the metal enclosures.
> This affects the PLL and CAR UNIT signals used in both transmit
> and receive. To clean these pins, both the PLL UNIT and the CAR UNIT
> assemblies must be removed.
>
> Each of these assemblies consist of 2 circuit boards that interconnect
> through fixed pins inside the metal enclosures. Remove each
> assembly, remove the top and bottom covers, then remove each board
> and clean the pins. Clean the sockets as well then install each
> board back into the metal enclosure, replace the covers, and install
> the assembly back into the 820. Do this to both assemblies.
>
> I also recommend removing the relay on the RELAY UNIT, clean the
> pins then remove the outer plastic cover and clean the relay contacts
> with contact cleaner. Both receive and transmit control signals flow
> through this relay. Corrosion can present a high resistance to
> signals which can affect both transmit and receive. For example, the

> "AGL" line which is the path for receiver "AGC" and transmitter "ALC"
> control voltages. The "AGL" is a common path that serves both
> transmit and receive gain control signals. The "AGL" line terminates
> on the "IF UNIT".
>
> The T/R relay, located on the bottom near the rear of the FINAL UNIT,
> inside the small metal enclosure, does not affect the Marker
> signal. The Marker signal flows directly from the MARKER UNIT to the
> COIL PACK UNIT. This relay will, if carbon build up occurs on the
> relay contacts, affect the receive signal. The relay is the same as
> the relay on the RELAY UNIT.
>
> Measuring the DC voltages is done at the Rectifier Unit. Voltages
> can be measured elsewhere but this is the easiest way to do it.
>
> Use the 820's service manual and measure the voltages as follows:
>
> HV:
>
> Positive lead to the Rectifier Unit's "800" terminal and negative
> lead to the chassis.
>
> LV:
>
> Postive lead to 300A negative to chassis.
> Positive lead to 300B negative to chassis.
> Positive lead to 14 negative to chassis.
>
> Positive lead to 210A negative to chassis.
> Positive lead to 210B negative to chassis.
> Positive lead to STB negative to chassis.
>
> Bias and SG:
>
> Negative lead to -C positive to chassis
> Negative lead to SG positive to chassis
>
>
> There are similar terminal labeling that have "AC" as part of the
> terminal label. These are the power transformer' s secondary windings.
>
> I would not recommend adjusting the COIL PACK UNIT until a thorough
> cleaning of ALL board pins, plugs, and ground connections. The PLL
> and CAR UNIT assemblies, for example, are common to both transmit and
> receive. If the internal interconnecting pins in each assembly are
> dirty/corroded both transmit and receive will be affected.
>
> Mike W5RKL
>
>

>
>
>
>
> --- In TS-520_820_530_ 830@yahoogroups. com, "vk4baz" <dellthorp@> wrote:
> >
> > Hello mike and the group
> >
> > The 820s was working fine until the arching was present on the RF unit with that fixed all ok,But my ALC has dispeared very little output on cw rf mode about 50 ma ,checked all resisters on the HV all appeared ok even pulled them out to check all within range,I have noticed the s meter does not register the 25khz marker on all bands either,but before everthing was adjusted within range ,I can't get the s meter to peak to S9 using the 25khz maker and adjusting vr2 on the IF unit,
> > Also the transformer what is the correct way to measure the voltage I am reading far less than 800v and a couple of others as well but it could be I am not doing it correctly,
> >
> > Barry vk4baz
> >
> > --- In TS-520_820_530_ 830@yahoogroups. com, "w5rkl" <w5rkl@> wrote:
> > >
> > > Barry,
> > >
> > > I do not have a 520S but I do have an 820 and I'm quite familiar how
> > > the RF and COIL UNIT board mount in the 820. Unfortunately, your
> > > initial explanation didn't make sense to me but your most recent
> > > explanation does make sense.
> > >
> > > I assume you have fixed the RF UNIT's incorrect mounting and no
> > > longer have the arcing problem. It also appears that you have
> > > replaced the driver tube.
> > >
> > > Have you attempted to tune the 820 up in CW mode? If so, what output
> > > power does the 820 produce?
> > >
> > > If the 820 tunes up in CW mode, have you checked the HV UNIT
> > > resistors, R5 and R6, both 56K 1/2 watt? If one or both of these
> > > resistors fail, increase significantly in resistance, there will be
> > > zero ALC indication on the meter in TUNE mode even if you can tune
> > > for full output in CW mode!
> > >
> > > Mike W5RKL
> > >
> > >
> > >
> > >
> > > --- In TS-520_820_530_ 830@yahoogroups. com, "vk4baz" <dellthorp@> wrote:
> > > >
> > > > Mike,
> > > >

> > > > Its not that hard to picture you have to have the 820s not a 520s in front of you to understand what I am saying ,the RF board I will call it a board for now which has the driver tube at the horizontal plane above the coil pack,this board as we all know plugs into 3 slots,if you go to the very top of the board, (finals end), you have a holding lug which holds the board in place ,its very easy for the screw to go through the lug first then the board the right way is the screw goes through the board first then the lug ,if it accidently goes the wrong way then the sharp end of the lug is very close to the circuit tracks as in my case due to moving the radio around which flexis without the covers on ,just happen touch and short itself hence the crackling and squeal in the receiver,so I hope you are following me mike my english is probably differcult,what I am worried about is I have no ALC The driver is new so I changed it just in case,
> > > >
> > > > Barry vk4baz
> > > >
> > > > --- In TS-520_820_530_ 830@yahoogroups. com, "w5rkl" <w5rkl@> wrote:
> > > > >
> > > > > Barry,
> > > > >
> > > > > Then I am having a difficult time understanding how the RF UNIT can be installed incorrectly since it plugs into the COIL PACK UNIT and
> > > > > can only be installed one way. In addition, the COIL PACK UNIT can
> > > > > only be installed one way as well.
> > > > >
> > > > > Mike W5RKL
> > > > >
> > > > >
> > > > >
> > > > >
> > > > > --- In TS-520_820_530_ 830@yahoogroups. com, "vk4baz" <dellthorp@> wrote:
> > > > > >
> > > > > >
> > > > > >
> > > > > > mike,
> > > > > >
> > > > > > Yes thats it
> > > > > >
> > > > > >
> > > > > > --- In TS-520_820_530_ 830@yahoogroups. com, "w5rkl" <w5rkl@> wrote:
> > > > > > >
> > > > > > > Barry,
> > > > > > >
> > > > > > > I'm confused as to what your term "RF BOARD" means? Are you talking
> > > > > > > about the RF UNIT, the board with the driver tube?
> > > > > > >
> > > > > > > Mike W5RKL
> > > > > > >
> > > > > > >
> > > > > > > --- In TS-520_820_530_ 830@yahoogroups. com, "vk4baz" <dellthorp@> wrote:
> > > > > > > >
> > > > > > > > Mike,

> > > > > > > >
> > > > > > > > > What I found it to be was when I purchased this rig it look like someone has had the rf board out ,when they put it back they put it back the wrong way up stream of the holding screw instead of downstream so with movement it shorted the frame onto the circuit board ,now I am worried It has blown something because my Alc is gone the driver tube is new, Thats why it sounded like arching in the receiver I only saw the sparks when moving the radio frame about thus the smell as well ,would this blow the driver tube as I replaced it twice, I am a not happy jan right now,what do you think
> > > > > > > > >
> > > > > > > > > > Barry vk4baz
> > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > > > --- In TS-520_820_530_ 830@yahoogroups. com, "w5rkl" <w5rkl@> wrote:
> > > > > > > > > > >
> > > > > > > > > > > > Hello Barry,
> > > > > > > > > > > >
> > > > > > > > > > > > If turning the heater switch ON and OFF causes the noise to
> > > > > > > > > > > > appear and disappear, most likely one of the tubes is arcing
> > > > > > > > > > > > internally. I suspect the driver tube.
> > > > > > > > > > > >
> > > > > > > > > > > > ALC is only created when GRID CURRENT flows in the final tubes. The
> > > > > > > > > > > > only time GRID CURRENT flows in the final tubes is when the
> > > > > > > > > > > > driver's signal is sufficient to cause the final tube grids to be
> > > > > > > > > > > > "positive".
> > > > > > > > > > > >
> > > > > > > > > > > > It is quite possible a bad driver tube can be causing your problem.
> > > > > > > > > > > >
> > > > > > > > > > > >
> > > > > > > > > > > > Mike W5RKL
> > > > > > > > > > > >
> > > > > > > > > > > >
> > > > > > > > > > > > --- In TS-520_820_530_ 830@yahoogroups. com, "vk4baz" <dellthorp@> wrote:
> > > > > > > > > > > >
> > > > > > > > > > > >
> > > > > > > > > > > > Hello to the group
> > > > > > > > > > > >
> > > > > > > > > > > > I have a weird one for you need to pick your brain,I was aligning the ts 820s and noticed after I had finished tuning ,I started to get heavy static from the receiver ,when I turned the heater switch the sound changes pitch after 15 seconds then the noise quits suddenly ,I recently replaced all the caps and tested each board before moving on to the next,the only caps not replaced yet is the smoothing caps which are on order,
> > > > > > > > > > >
> > > > > > > > > > > I have had a good look for any broken wires and went back over the tuning I also noticed after the tune my alc is very hard to adjust its either to much or too liitle very differcult to get it right .
> > > > > > > > > > >
> > > > > > > > > > > what do you reckon
> > > > > > > > > > >
> > > > > > > > > > > Barry vk4baz

> > > > > > > > > >
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>

[Non-text portions of this message have been removed]

21862. Re: [TS-520_820_530_830] TS-830S L41 Coil

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-23 12:19:33 UTC
From: Dave and Loraine
Topic: 21855 Message: 21862

Well don Gordon!

21863. RE: [TS-520_820_530_830] TS-830S-low output/no indication of ALC on 10 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-23 13:27:26 UTC
From: Jim McPhee
Topic: 21843 Message: 21863

Martin,

Thanks for the response. This is actually the second 12by7a tube. I replaced it at the same time as the 6146Ws, and the fellow who did the equalization noted the low output, identified the driver as being the problem and replaced it as well. It does not appear that the driver is/was the problem.

The next thing I will do is replace the resistors. I have them, so I might as well replace them and eliminate them as the source of the problem. I understand what you said about the difference between 80 and 100 watts. I'm not too concerned about getting the 10 meter output higher than 80 watts. I just want to get it back to where it was when I got the rig, which was 80 watts or a little above.

Regards,

Jim McPhee
Placitas, NM
C23, Therapy
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of martin
Sent: Wednesday, July 22, 2009 11:53 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS-830S-low output/no indication of ALC on 10 meters

Hi Jim. 80 watts (CW) is about right for 10M with these radios. The tubes, especially the 12BY7a just do not operate as efficiently on 10M as they do on lower frequencies.

First, check the and replace (if necessary) the resisters. Then, check the 12BY7a driver tube. Usually 10M is the first band to show low output when the driver starts to go. using excessive ALC/mic gain can shorten the life of the driver tube. Always keep the ALC reading within the marked ALC scale when tuning up, and when operating.

BTW, the difference between 80 watts and 100 watts would barely (if at all) noticeable at the receiving station. To get an improvement of 1 S-unit at the receiving station, the transmitting station has to put out 4 times the power.

As to 10M, while there have been a few openings lately, it is still mostly dead.

TTYL

Jim McPhee wrote:
> Good evening:
>
> I continue to have issues with the TS-830s that I bought about two
> months ago. I have yet to make a contact on 10 meters, the only
> phone band available to me with my Technician class license.
>
>
> Question/issue: No ALC level at all when tuning the transmitter on
> 10 meters. There used to be, when I first got the rig, but not
> now. Output on 10 meters, according to meter on the MFJ-949 that I
> use for the dummy load, is about 50 watts. Output on other bands,
> is 100 watts or close to it.
>
--
CUL8R

KBOHAE kb0hae@... <mailto:kb0hae%40mchsi.com> Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

[Non-text portions of this message have been removed]

21864. RE: [TS-520_820_530_830] TS-830S-low output/no indication of ALC on 10 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-23 13:30:28 UTC
From: Jim McPhee
Topic: 21843 Message: 21864

Gordon,

Thanks for the input. I will replace those resistors first chance I get and will report back on the results. May have to wait for next weekend when I have the time to get it done.

Regards,

Jim McPhee
Placitas, NM
KF5BNG
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Gordon JC Pearce
Sent: Thursday, July 23, 2009 12:45 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS-830S-low output/no indication of ALC on 10 meters

On Wed, 2009-07-22 at 19:20 -0600, Jim McPhee wrote:

> I have not yet installed Ken's "resistor kit for final repair" although I
> have it here .
>
> I look forward to your responses regarding potential solutions for this
> problem.

Think you've pretty much nailed the problem there. If it's worse when hot, it does sound awfully like a resistor going high in value. Bear in mind that the high voltage section will be full of 20-year-old carbon comp resistors. These seem to be good at failing by going high in value, particularly when used with high voltages - old TV brightness circuit resistors spring to mind.

There was an interesting article about why metal film resistors are perfectly okay at RF in Radcomm this month - basically although they *are* a spiral of resistive material (and thus on the face of it they look like they'd be inductive) they have an inductance measured in nH at worst.

Gordon 2M0YEQ

[Non-text portions of this message have been removed]

21865. Re: [TS-520_820_530_830] TS830 low voltage from transformer tap 12.6v lead

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-23 14:56:03 UTC
From: Jerry J Seay
Topic: 21843 Message: 21865

Daniel, my idea also. In the Heathkit eBay listings, there are always a few of the DC regulated
supplies listed for just a few dollars. True, it is much larger than simple transformer, but they
several advantages, DC filament voltage, (No AC Noise), easily selected current supply, and not any
ripple in the DC.

Jerry, KE5PUT

On Wednesday 22 July 2009 05:41:10 pm Daniel TOESCA wrote:
> Hello Mike,
>
> If the filament winding of your power transformer is really open BUT all of
> the other voltages, that is +800 +300 -150 (no schematic, only memory)
> are OK, you can always go the cheap way and find an external 12.6 volt
> transformer with enough amperes to do the job. It has to warm both 6146,
> the 12BY7A and the pilot lamps, easy to figure how many amps are needed.
> Simple low voltage connectors and wiring. Maybe you can use the blower
> power plug to feed it.
>
> But, before giving away with your Xformer, check the wiring for cold solder
> joints, etc.. quite common with oldies.
>
> Hope it helps.
>
> Good luck & 73's - Daniel, ON5PY
>
> 2009/7/21, mmurphey2 <mmurphey2@...>:
> > I recently purchased a TS830 that was supposed to be in good condition.
> > After not being able to make any contacts, I asked a local Elmer to check
> > it out for me. I took it to him and he put it on his bench. He quickly
> > found that it had no output on any band. He soon showed me the varnish on
> > the inside of the bottom cover (which he said had been cleaned up to hide
> > a problem). He traced the source to one of the big black capacitors - he
> > replaced it. He then checked the voltages on the transformer taps - all
> > were good except the 12.6v lead used for the pilot lights and tube
> > heaters. That lead only showed 11.5 volts. When he turned on the heater
> > switch the voltage on that lead went to zero volts. The heater switch
> > seems to test ok. I suspect I am in possession of a badly modified TS830.
> >
> > I have been searching the web and found numerous citations of problems
> > associated with a QRO modification of the 830 but cannot find an accurate
> > description of the modification. I am hoping to find it so that we can

> > use it to find out if this radio has indeed been modified. And, if
> > modified , put it back to its original specifications.
> >
> > Also, I would appreciate any guidance from someone familiar with the
> > TS830 internals.
> >
> > Thank you in advance for any assistance given.
> >
> > Mike
> > KI4WWG
>
> [Non-text portions of this message have been removed]

21866. Re: [TS-520_820_530_830] TS-830S-low output/no indication of ALC on 10 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-23 15:01:00 UTC
From: Jerry J Seay
Topic: 21843 Message: 21866

Jim, I looked through you emails about the this problem and I did not notice any mention of you
checking the band switch coupler. Do you still have the white plastic band switch couplers? Check
them for cracks. Cracked couplers will not let the band switch complete its connection. Most of us
automatically replace them when we get a 830S. I have two of them. If you are not actually tuning
in 10m, this could be your problem.

Jerry, KE5PUT

On Wednesday 22 July 2009 08:20:06 pm Jim McPhee wrote:
> Good evening:
>
> I continue to have issues with the TS-830s that I bought about two months
> ago. I have yet to make a contact on 10 meters, the only phone band
> available to me with my Technician class license.
>
>
> Question/issue:
> No ALC level at all when tuning the transmitter on 10 meters. There used
> to be, when I first got the rig, but not now. Output on 10 meters,
> according to meter on the MFJ-949 that I use for the dummy load, is about
> 50 watts. Output on other bands, is 100 watts or close to it.
>
> Background:
> I bought the TS-830S off ebay from a ham. He indicated that although it
> was a backup rig that received little use in the 10(?) years that he had
> owned it, and that he used it to make contacts prior to putting it up for
> sale. Output was low on 10 meters when I got it, so I invested in matched
> pair of 6146Ws and a new driver tube.
> I had it equalized by a ham gear tech near here in Albuquerque after my
> attempts appeared futile. (Already discussed on this forum.)
> Output remained the same, about 80 watts according to the meter on the MFJ
> 949D that I was using the dummy load on.
> It has appeared that the output was higher(80 watts) when the rig was
> recently turned on than when it had been on for a couple of hours (50
> watts).
>
> Current status:
> When tuning up the xmitter for 10 meters now, 28.375 specifically, there is
> virtually no meter movement with the meter set to ALC. This is regardless
> of where the carrier control is set.

>
> ALC "used to" show significant strength on 10 meters.
>
> Output on 10 meters has diminished to about 50 watts, or a little below.
>
> ALC continues to show significant strength on 20 and 12 meters, when I
> tune-up on those bands, just for comparison. Output into the dummy load on
> those bands is about 100 watts.
>
> I've installed the following from Ken Kemski, K4EAA:
> High-Voltage repair
> Final Cage Partial Repair kit.
> I have not yet installed Ken's "resistor kit for final repair" although I
> have it here .
>
> I look forward to your responses regarding potential solutions for this
> problem.
>
>
>
> Regards,
>
> Jim McPhee
> Placitas, NM
> KF5BNG
>
>
> [Non-text portions of this message have been removed]

21867. need help..

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-23 13:42:39 UTC
From: ray_brmly
Topic: 21867 Message: 21867

i have a ts 830s and wanting to hook a al-811 amp to iti have the arb 704 relay box..how and what i need ?..

73 ray n5iz

21868. Re: TS830 low voltage from transformer tap 12.6v lead

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-23 15:06:17 UTC
From: mmurphey2
Topic: 21843 Message: 21868

Yes. It was directly beneath the HV cap. He(elmer) replaced it with another of the same value, and tested it - ok. He then reported that he was able to get 20-40 watts out on several bands.

I purchased another 830s transformer (from a parts radio)from the internet and he tested it on the bench. It has the same symptom as the one in the radio - 12.6v lead shows good voltage until a load is placed on it - then it drops to 0-2 volts. Both transformers test good on the other leads.

Thank you for your reply.

Mike KI4WWG

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> One additional comment.
>
> Lets not jump to conclusion you have purchased a badly QRO modified
> 830 just yet. Lets look at a few more things first before making that
> determination.
>
> Where on the bottom cover is the "varnish" stain located? Is the
> stain directly below the 2 HV filter capacitors? The 2 HV filter
> capacitors are directly behind the VFO, between the power transformer
> and the VFO.
>
> Mike W5RKL
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Hello Mike,
> >
> > Your tech found traces of "varnish" on the inside of the bottom
> > cover. He said he traced the source of the varnish to a big black
> > capacitor.
> >
> > I assume the big black capacitor your tech is talking about is one
> > of two 100ufd 500VDC black electrolytic capacitors that mount on the
> > chassis using round clamps, directly behind the VFO. Is this correct?
> >
> > Mike W5RKL
> >
> >

> >
> > --- In TS-520_820_530_830@yahoogroups.com, "mmurphey2" <mmurphey2@> wrote:
> > >
> > > I recently purchased a TS830 that was supposed to be in good condition. After not being able to make any contacts, I asked a local Elmer to check it out for me. I took it to him and he put it on his bench. He quickly found that it had no output on any band. He soon showed me the varnish on the inside of the bottom cover (which he said had been cleaned up to hide a problem). He traced the source to one of the big black capacitors - he replaced it. He then checked the voltages on the transformer taps - all were good except the 12.6v lead used for the pilot lights and tube heaters. That lead only showed 11.5 volts. When he turned on the heater switch the voltage on that lead went to zero volts. The heater switch seems to test ok. I suspect I am in possession of a badly modified TS830.
> > >
> > > I have been searching the web and found numerous citations of problems associated with a QRO modification of the 830 but cannot find an accurate description of the modification. I am hoping to find it so that we can use it to find out if this radio has indeed been modified. And, if modified , put it back to its original specifications.
> > >
> > > Also, I would appreciate any guidance from someone familiar with the TS830 internals.
> > >
> > > Thank you in advance for any assistance given.
> > >
> > > Mike
> > > KI4WWG
> > >
> >
>

21869. Re: [TS-520_820_530_830] TS-830S tuning Rate

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-23 15:42:10 UTC
From: yash@aol.com
Topic: 21856 Message: 21869

Gordon
?have done the mod for the vf0-230 ,works fine. If you come across a mod for the internal vfo on the 830 drop me a note. I have been looking for a while also.
thanks
dale wt4t

-----Original Message-----
From: Gordon <n6wk@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thu, Jul 23, 2009 12:52 am
Subject: [TS-520_820_530_830] TS-830S tuning Rate

I know there is a Mod to change the tuning rate on a VFO-230, but is there a Mod to slow down the tuning rate on a TS-830S internal VFO ?

Thanks,

Gordon

N6WK

[Non-text portions of this message have been removed]

21870. Re: TS830 low voltage from transformer tap 12.6v lead

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-23 18:04:24 UTC
From: w5rkl
Topic: 21843 Message: 21870

Hello Mike,

The "varnish" stain your elmer pointed out to you appears to be caused by the HV filter capacitor leaking. The leakage could have been caused by an inexperienced operator pushing the final amplifier too hard resulting on excessive stress placed on the HV power supply and supply component, i.e., filter capacitors etc.

When excessive stress is placed on the power supply, heat builds up inside the filter capacitors. With heat building up inside the capacitors, pressure inside the capacitor is produced. If the heat is not reduced then the bottom seal on the capacitor(s) can easily rupture or the capacitor(s) can explode. If the seal ruptures, the internal compounds leak out onto the surface of the surrounging chassis or, in this case, on the inside of the bottom cabinet.

You said your "elmer" replaced the bad capacitor. Replacing one capacitor can make the radio work again. However, "if" the remaining original capacitor has high internal leakage current, the original capacitor will cause undue stress to be placed on the new capacitor. Checking the remaining original capacitor is warranted here especially since there is evidence of one HV filter capacitor has physically leaked onto the inside of the bottom cover!

If the remaining original filter capacitor has low or equal leakage current compared to the new capacitor, only after checking the capacitor with a capacitor checker, then there is no need to replace both. However, having said that AND since the remaining original capacitor is old and most likely will not have the same leakage current as the new capacitor, I recommend replacing "both" capacitors. This is the safe route to take. Ken, K4EAA, sells a complete replacement kit. See his website, www.k4eaa.com for further details.

With the heater switch OFF and the power switch is turned ON the dial and meter lamps will glow. Turning the heater switch ON the dial lamps should remain at the same brilliance as the lamps were when the heater switch was OFF. If the lamps glow the same with or without the heater switch ON then the filament windings are good. If the filament windings were shorted, the tube's filaments would not light up and the dial lamps would not glow, with or without the heater switch turned on. The tube filaments AND dial lamps are powered from the same secondary winding of the transformer. I also suspect the fuse would blow when power is applied to the 830 if the 12.6VAC windings were shorted.

I also recommend checking the final tube cathode resistors, R2 thru R5. These are mounted on the bottom of the final amplifier PC board. Each resistor is 20 ohm 1/2 watt. The resistors are wired in parallel which results in a total resistance of "5 ohms". If one or more of these resistor's values change, normally resistors increase in resistance, the IP current flowing through the final tubes will change and can easily result in lower output.

If, during checking R2 thru R5, one or two of the resistors have increased in value, change ALL 4 of the resistor, not just the bad ones. Visually inspect each resistor for signs of discoloration or cracks due to overheating. You should use a magnifying glass so minor cracks can be seen. I have seen these resistors visually look "good" but, a closer inspection with a magnifying glass, clearly show the bodies of the resistors were cracked. Resistors are cheap, less than a dollar, so it's good insurance to replace them all.

The same goes for the filter capacitors, changing both is simply good insurance. There are other capacitors that should also be checked on the IF UNIT board and other places. However, at this point, I would at least check and replace as necessary R2 thru R5 and both HV filter capacitors with "new" capacitors and resistors.

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "mmurphey2" <mmurphey2@...> wrote:
>
> Yes. It was directly beneath the HV cap. He(elmer) replaced it with another of the same value, and tested it - ok. He then reported that he was able to get 20-40 watts out on several bands.
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> I purchased another 830s transformer (from a parts radio)from the internet and he tested it on the bench. It has the same symptom as the one in the radio - 12.6v lead shows good voltage until a load is placed on it - then it drops to 0-2 volts. Both transformers test good on the other leads.
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> Thank you for your reply.
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> Mike KI4WWG
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> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
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> > > Mike W5RKL
> > >
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> > > > Also, I would appreciate any guidance from someone familiar with the TS830 internals.
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> > > > Thank you in advance for any assistance given.
> > > >
> > > > Mike
> > > > KI4WWG
> > > >
> > >

> >
>

21871. Re: [TS-520_820_530_830] TS-830S-low output/no indication of ALC on 10 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-23 19:05:16 UTC
From: jmcphee@comcast.net
Topic: 21843 Message: 21871

Jerry,

Thanks for the suggestion.

It does receive in 10 meters, and the mfj auto tuner that I bought used recently does indicate the same frequency on it's readout as the 830 does on it's. I'm confident that the band switch is completing the the connection.

It does still have the white plastic couplers, but I have checked them while rotating the switch and did not see any cracks or any flex in the coupler.

Jim McPhee
Placitas, NM
KF5BNG

----- Original Message -----
From: "Jerry J Seay" <jjseay@...>
To: "TS-520 820 530 830" <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, July 23, 2009 9:01:00 AM GMT -07:00 US/Canada Mountain
Subject: Re: [TS-520_820_530_830] TS-830S-low output/no indication of ALC on 10 meters

Jim, I looked through you emails about the this problem and I did not notice any mention of you
checking the band switch coupler. Do you still have the white plastic band switch couplers? Check
them for cracks. Cracked couplers will not let the band switch complete its connection. Most of us
automatically replace them when we get a 830S. I have two of them. If you are not actually tuning
in 10m, this could be your problem.

Jerry, KE5PUT

On Wednesday 22 July 2009 08:20:06 pm Jim McPhee wrote:
> Good evening:
>
> I continue to have issues with the TS-830s that I bought about two months
> ago. I have yet to make a contact on 10 meters, the only phone band
> available to me with my Technician class license.
>
>
> Question/issue:
> No ALC level at all when tuning the transmitter on 10 meters. There used
> to be, when I first got the rig, but not now. Output on 10 meters,
> according to meter on the MFJ-949 that I use for the dummy load, is about

> 50 watts. Output on other bands, is 100 watts or close to it.
>
> Background:
> I bought the TS-830S off ebay from a ham. He indicated that although it
> was a backup rig that received little use in the 10(?) years that he had
> owned it, and that he used it to make contacts prior to putting it up for
> sale. Output was low on 10 meters when I got it, so I invested in matched
> pair of 6146Ws and a new driver tube.
> I had it equalized by a ham gear tech near here in Albuquerque after my
> attempts appeared futile. (Already discussed on this forum.)
> Output remained the same, about 80 watts according to the meter on the MFJ
> 949D that I was using the dummy load on.
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> recently turned on than when it had been on for a couple of hours (50
> watts).
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> Current status:
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> of where the carrier control is set.
>
> ALC "used to" show significant strength on 10 meters.
>
> Output on 10 meters has diminished to about 50 watts, or a little below.
>
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> those bands is about 100 watts.
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> I've installed the following from Ken Kemski, K4EAA:
> High-Voltage repair
> Final Cage Partial Repair kit.
> I have not yet installed Ken's "resistor kit for final repair" although I
> have it here .
>
> I look forward to your responses regarding potential solutions for this
> problem.
>
>
>
> Regards,
>
> Jim McPhee
> Placitas, NM
> KF5BNG
>
>
> [Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

21872. Re: [TS-520_820_530_830] need help..

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-23 19:40:13 UTC
From: Dave ve3wej
Topic: 21867 Message: 21872

a manual

for both

----- Original Message -----
From: "ray_brmly" <ray_brmly@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, July 23, 2009 9:42 AM
Subject: [TS-520_820_530_830] need help..

>i have a ts 830s and wanting to hook a al-811 amp to iti have the arb 704
>relay box..how and what i need ?..
>
> 73 ray n5iz
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

21873. Re: TS-830S-low output/no indication of ALC on 10 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-23 20:47:55 UTC
From: w5rkl
Topic: 21843 Message: 21873

Hello Jim,

First, purchasing matched pairs of final tubes is a waste of money.
There is no benefit by using matched pairs of final tubes. Matched
tubes "should" be used in "push-pull" amplifiers. The final amplifier
in the 830 operates in "parallel" not "push-pull".

I am going to assume you have check and, if necessary, set the final
amplifier's 60ma idling current as outlined in the 830's operating
manual. This should be checked and, if necessary, set to 60ma, again
as outlined in the operator's manual.

I seriously doubt the problem is related to the band switch
coupling in the final amplifier. If that were the case the
problem would be more than likely be evident on all bands as
the band switch coupling would slip causing the final band switch
wafer to improperly align on each band.

I suspect the final amplifier is not neutralized properly.
A properly neutralized final amplifier will have maximum output
occur at the same time the final amplifier's IP current reaches
maximum dip. Neutralize the final as outlined in the 830's
operator's manual.

I also recommend performing a complete cleaning of the final
amplifier. This includes cleaning the PLATE and LOAD variable
capacitors using contact cleaner on the variable capacitor shaft
to capacitor frame connection. Use canned air to remove any/all dust
and dirt from these connections plus dust and dirty in the final
amplifier cage itself. Also, use contact cleaner to clean the band
switch wafer in the final amplifier cage plus all the other band
switch, MODE, and FUNCTION switch wafers as well. Again, use canned
air to remove any and all dirt, dust, and excess contact cleaner.
Wait 3 to 5 minutes before applying power as contact cleaner is
"flammable" and it only takes a small spark to ignite it!

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, jmcphee@... wrote:
>
> Jerry,
>
> Thanks for the suggestion.
>
> It does receive in 10 meters, and the mfj auto tuner that I bought used recently does indicate the same frequency on it's readout as the 830 does on it's. I'm confident that the band switch is completing the the connection.

>
> It does still have the white plastic couplers, but I have checked them while rotating the switch and did not see any cracks or any flex in the coupler.
>
> Jim McPhee
> Placitas, NM
> KF5BNG
>
>
>
> ----- Original Message -----
> From: "Jerry J Seay" <jjseay@...>
> To: "TS-520 820 530 830" <TS-520_820_530_830@yahoogroups.com>
> Sent: Thursday, July 23, 2009 9:01:00 AM GMT -07:00 US/Canada Mountain
> Subject: Re: [TS-520_820_530_830] TS-830S-low output/no indication of ALC on 10 meters
>
>
>
>
>
>
>
> Jim, I looked through you emails about the this problem and I did not notice any mention of you
> checking the band switch coupler. Do you still have the white plastic band switch couplers? Check
> them for cracks. Cracked couplers will not let the band switch complete its connection. Most of us
> automatically replace them when we get a 830S. I have two of them. If you are not actually tuning
> in 10m, this could be your problem.
>
> Jerry, KE5PUT
>
> On Wednesday 22 July 2009 08:20:06 pm Jim McPhee wrote:
> > Good evening:
> >
> > I continue to have issues with the TS-830s that I bought about two months
> > ago. I have yet to make a contact on 10 meters, the only phone band
> > available to me with my Technician class license.
> >
> >
> > Question/issue:
> > No ALC level at all when tuning the transmitter on 10 meters. There used
> > to be, when I first got the rig, but not now. Output on 10 meters,
> > according to meter on the MFJ-949 that I use for the dummy load, is about
> > 50 watts. Output on other bands, is 100 watts or close to it.
> >
> > Background:
> > I bought the TS-830S off ebay from a ham. He indicated that although it
> > was a backup rig that received little use in the 10(?) years that he had

> > owned it, and that he used it to make contacts prior to putting it up for
> > sale. Output was low on 10 meters when I got it, so I invested in matched
> > pair of 6146Ws and a new driver tube.
> > I had it equalized by a ham gear tech near here in Albuquerque after my
> > attempts appeared futile. (Already discussed on this forum.)
> > Output remained the same, about 80 watts according to the meter on the MFJ
> > 949D that I was using the dummy load on.
> > It has appeared that the output was higher(80 watts) when the rig was
> > recently turned on than when it had been on for a couple of hours (50
> > watts).
> >
> > Current status:
> > When tuning up the xmitter for 10 meters now, 28.375 specifically, there is
> > virtually no meter movement with the meter set to ALC. This is regardless
> > of where the carrier control is set.
> >
> > ALC "used to" show significant strength on 10 meters.
> >
> > Output on 10 meters has diminished to about 50 watts, or a little below.
> >
> > ALC continues to show significant strength on 20 and 12 meters, when I
> > tune-up on those bands, just for comparison. Output into the dummy load on
> > those bands is about 100 watts.
> >
> > I've installed the following from Ken Kemski, K4EAA:
> > High-Voltage repair
> > Final Cage Partial Repair kit.
> > I have not yet installed Ken's "resistor kit for final repair" although I
> > have it here .
> >
> > I look forward to your responses regarding potential solutions for this
> > problem.
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> >
> >
> > Regards,
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> > Jim McPhee
> > Placitas, NM
> > KF5BNG
> >
> >
> > [Non-text portions of this message have been removed]
>
>
>
>
> [Non-text portions of this message have been removed]
>

21874. Re: need help..

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-23 21:10:10 UTC
From: w5rkl
Topic: 21867 Message: 21874

Hello Ray,

No, you do NOT need an external relay box/interface to connect
the 830 to the AL-811H amplifier. The 830's internal relay can
easily handle the 12VDC 100ma AL-811H relay switching voltage.
There are very few amplifiers produced today that have high
amplifier relay switching voltages. There are two amplifiers
that I know that have high relay switching voltages and they are
the Heathkit SB-200 and SB-201. I'm not sure about the
Kenwood TL-922 but I believe the 830's relay contacts can easily
handled the TL-922 amplifier relay switching voltage.

You will need a matching DIN plug to make the connections to the
ACC socket on the rear of the 830. Consult the 830's operator's
manual, page 25, for further details on connecting the AL-811H's
ALC and RELAY connections to the 830. Use shielded cable to make
these connections. Cheap stereo interconnecting cable will do fine.

Take the time to read and fully understand the tune up procedures
outlined in the AL-811H manual as well as the 830's manual. If you
have the slightest doubt, read the manuals again and check the wiring
to be sure. Never assume anything!

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "ray_brmly" <ray_brmly@...> wrote:
>
> i have a ts 830s and wanting to hook a al-811 amp to iti have the arb 704 relay box..how
and what i need ?..
>
> 73 ray n5iz
>

21875. Re: [TS-520_820_530_830] TS-830S-low output/no indication of ALC on 10 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-23 21:12:46 UTC
From: Jerry J Seay
Topic: 21843 Message: 21875

Great, it would have been a heart breaker to have worked a dozen issues only to find that the band
switch coupler was slipping.

Good luck,

Jerry, KE5PUT

On Thursday 23 July 2009 02:05:16 pm jmcphee@... wrote:
> Jerry,
>
> Thanks for the suggestion.
>
> It does receive in 10 meters, and the mfj auto tuner that I bought used
> recently does indicate the same frequency on it's readout as the 830 does
> on it's. I'm confident that the band switch is completing the the
> connection.
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> It does still have the white plastic couplers, but I have checked them
> while rotating the switch and did not see any cracks or any flex in the
> coupler.
>
> Jim McPhee
> Placitas, NM
> KF5BNG
>
>
>
> ----- Original Message -----
> From: "Jerry J Seay" <jjseay@...>
> To: "TS-520 820 530 830" <TS-520_820_530_830@yahoogroups.com>
> Sent: Thursday, July 23, 2009 9:01:00 AM GMT -07:00 US/Canada Mountain
> Subject: Re: [TS-520_820_530_830] TS-830S-low output/no indication of ALC
> on 10 meters
>
>
>
>
>
>
>
> Jim, I looked through you emails about the this problem and I did not
> notice any mention of you checking the band switch coupler. Do you still
> have the white plastic band switch couplers? Check them for cracks. Cracked
> couplers will not let the band switch complete its connection. Most of us

> automatically replace them when we get a 830S. I have two of them. If you
> are not actually tuning in 10m, this could be your problem.
>
> Jerry, KE5PUT
>
> On Wednesday 22 July 2009 08:20:06 pm Jim McPhee wrote:
> > Good evening:
> >
> > I continue to have issues with the TS-830s that I bought about two months
> > ago. I have yet to make a contact on 10 meters, the only phone band
> > available to me with my Technician class license.
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> >
> > Question/issue:
> > No ALC level at all when tuning the transmitter on 10 meters. There used
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> > Background:
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> > Output remained the same, about 80 watts according to the meter on the
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> > regardless of where the carrier control is set.
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> > ALC "used to" show significant strength on 10 meters.
> >
> > Output on 10 meters has diminished to about 50 watts, or a little below.
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> > ALC continues to show significant strength on 20 and 12 meters, when I
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> > I've installed the following from Ken Kemski, K4EAA:
> > High-Voltage repair
> > Final Cage Partial Repair kit.
> > I have not yet installed Ken's "resistor kit for final repair" although I

> > have it here .
> >
> > I look forward to your responses regarding potential solutions for this
> > problem.
> >
> >
> >
> > Regards,
> >
> > Jim McPhee
> > Placitas, NM
> > KF5BNG
> >
> >
> > [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]

21876. Re: [TS-520_820_530_830] DG-5 Failure

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-23 22:37:59 UTC
From: Dave ve3wej
Topic: 21858 Message: 21876

does the dg5 have a regulator circuit inside, maybe that is where the smoke
came from, causing the 520s to be on a shorted circuit (and overheating).

----- Original Message -----
From: "scott10k" <scottandalene@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, July 23, 2009 1:46 AM
Subject: [TS-520_820_530_830] DG-5 Failure

> My DG-5 suddenly emitted a little smoke from the back of the case and
> stopped showing any display. I removed the PCB from the case and noted
> that with DC voltage applied from the TS-520S, the power resistors R-125,
> R-126, and R-129 were getting extremely hot, so I shut the unit off. Any
> ideas of how I could determine what may have happened and how to fix it
> will be appreciated.
> TNX and 73s, Scott, N6CIC
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

21877. Re: DG-5 Failure

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-23 23:00:28 UTC
From: w5rkl
Topic: 21858 Message: 21877

The DG-5 has an internal 7805, 5V, regulator that provides
5VDC to the TTL logic circuits. There is also the analog power
provided by Q31 and zener diode D17. Zener diode D17 sets Q31's
base voltage. Q2 controls the 4.5VDC LED voltage. All 3 of these
voltages are produced from the 13.5VDC provided by the 520S/520SE's
13.5VDC power supply available on the rear panel of the 520S/520SE.

I doubt the 7805 regulator caused the smoke. More than likely
one of the resistors in the power circuits caused the smoke due to
a failed diode, transistor, or both.

See the DG-5 service manual, page 23, for further details on the
power circuit.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@...> wrote:
>
> does the dg5 have a regulator circuit inside, maybe that is where the smoke
> came from, causing the 520s to be on a shorted circuit (and overheating).
>
>
> ----- Original Message -----
> From: "scott10k" <scottandalene@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Thursday, July 23, 2009 1:46 AM
> Subject: [TS-520_820_530_830] DG-5 Failure
>
>
> > My DG-5 suddenly emitted a little smoke from the back of the case and
> > stopped showing any display. I removed the PCB from the case and noted
> > that with DC voltage applied from the TS-520S, the power resistors R-125,
> > R-126, and R-129 were getting extremely hot, so I shut the unit off. Any
> > ideas of how I could determine what may have happened and how to fix it
> > will be appreciated.
> > TNX and 73s, Scott, N6CIC
> >
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> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
>

21879. Re: [TS-520_820_530_830] Help.! needed....TS-820S...smeter...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-24 00:30:03 UTC
From: Dave ve3wej
Topic: 21878 Message: 21879

check the rf gain control?? maybe turned fully counter clockwise???

turn fully to the right???

----- Original Message -----
From: "pissousky" <pissousky@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, July 23, 2009 8:22 PM
Subject: [TS-520_820_530_830] Help.! needed....TS-820S...smeter...

> Hello guys,when I turn my 820S on,the smeter goes right to max.(show full
> scale).I checked the VR1 and VR2 on the IF board but cant bring it down
> more than half the meter,it receives ,tramsmits good on CW and SSB but
> nothing happen on the tune position,and when I press the mike the meter
> works like it should except on the ALC position which stays full
> scale......anyone can help me????? Eric
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

21881. Re: Help.! needed....TS-820S...smeter...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-24 03:22:52 UTC
From: w5rkl
Topic: 21878 Message: 21881

Hello Eric,

Since your symptoms are the same in transmit and receive, full
scale s meter in receive and full scale (ALC position) in transmit,
I suspect a bad/loose ground/mounting screw(s). It also could be
a bad connection on one of the IF UNIT plugs. Remove and re-seat
all plugs to each PC board. Do one plug at a time.

Check all board and chassis ground screws to ensure they are
tight.

I doubt the problem is a voltage issue since the problem is not
causing a loss of receiver sensitivity nor is it causing a
reduction in RF output in transmit mode. You simply have a full
scale meter in transmit (ALC position) and full scale S meter in
receive.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "pissousky" <pissousky@...> wrote:
>
> Hello guys,when I turn my 820S on,the smeter goes right to max.(show full scale).I checked the VR1 and VR2 on the IF board but cant bring it down more than half the meter,it receives ,tramsmits good on CW and SSB but nothing happen on the tune position,and when I press the mike the meter works like it should except on the ALC position which stays full scale......anyone can help me????? Eric
>

21882. Re: [TS-520_820_530_830] Re: need help..

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-24 03:26:13 UTC
From: Seewoosankar Mandary
Topic: 21867 Message: 21882

Hello Group
Following Mike,s remark

There are two amplifiers
that I know that have high relay switching voltages and they are
the Heathkit SB-200 and SB-201.

There is also the Alpha 76 which has 25V on the relay line and I almost
fried a FT 757 by not using a relay box
between them. Now I have built a small relay box which workes fine.
Regards
Jacky 3B8CF

Please Visit :
http://www.qsl.net/3b8cf
http://www.qsl.net/mars
-------Original Message-------

From: w5rkl
Date: 7/24/2009 1:11:02 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: need help..

Hello Ray,

No, you do NOT need an external relay box/interface to connect
the 830 to the AL-811H amplifier. The 830's internal relay can
easily handle the 12VDC 100ma AL-811H relay switching voltage.
There are very few amplifiers produced today that have high
amplifier relay switching voltages. There are two amplifiers
that I know that have high relay switching voltages and they are
the Heathkit SB-200 and SB-201. I'm not sure about the
Kenwood TL-922 but I believe the 830's relay contacts can easily
handled the TL-922 amplifier relay switching voltage.

You will need a matching DIN plug to make the connections to the
ACC socket on the rear of the 830. Consult the 830's operator's
manual, page 25, for further details on connecting the AL-811H's
ALC and RELAY connections to the 830. Use shielded cable to make
these connections. Cheap stereo interconnecting cable will do fine.

Take the time to read and fully understand the tune up procedures
outlined in the AL-811H manual as well as the 830's manual. If you
have the slightest doubt, read the manuals again and check the wiring
to be sure. Never assume anything!

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "ray_brmly" <ray_brmly@...>
wrote:
>
> i have a ts 830s and wanting to hook a al-811 amp to iti have the arb 704
relay box..how and what i need ?..
>
> 73 ray n5iz
>

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.392 / Virus Database: 270.13.25/2256 - Release Date: 07/23/09
06:02:00

[Non-text portions of this message have been removed]

21883. RE: [TS-520_820_530_830] Re: TS-830S-low output/no indication of ALC on 10 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-24 04:42:18 UTC
From: Jim McPhee
Topic: 21843 Message: 21883

Mike,

Thank you for the suggestions. I'm going to be away for a few days, but I will do the things you suggest when I return. I will let everyone know what the solution is when I find it!

Regards,

Jim McPhee
Placitas, NM
C23, Therapy
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
Sent: Thursday, July 23, 2009 2:48 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS-830S-low output/no indication of ALC on 10 meters

Hello Jim,

First, purchasing matched pairs of final tubes is a waste of money. There is no benefit by using matched pairs of final tubes. Matched tubes "should" be used in "push-pull" amplifiers. The final amplifier in the 830 operates in "parallel" not "push-pull".

I am going to assume you have check and, if necessary, set the final amplifier's 60ma idling current as outlined in the 830's operating manual. This should be checked and, if necessary, set to 60ma, again as outlined in the operator's manual.

I seriously doubt the problem is related to the band switch coupling in the final amplifier. If that were the case the problem would be more than likely be evident on all bands as the band switch coupling would slip causing the final band switch wafer to improperly align on each band.

I suspect the final amplifier is not neutralized properly. A properly neutralized final amplifier will have maximum output occur at the same time the final amplifier's IP current reaches maximum dip. Neutralize the final as outlined in the 830's operator's manual.

I also recommend performing a complete cleaning of the final amplifier. This includes cleaning the PLATE and LOAD variable capacitors using contact cleaner on the variable capacitor shaft to capacitor frame connection. Use canned air to remove any/all dust

and dirt from these connections plus dust and dirty in the final amplifier cage itself. Also, use contact cleaner to clean the band switch wafer in the final amplifier cage plus all the other band switch, MODE, and FUNCTION switch wafers as well. Again, use canned air to remove any and all dirt, dust, and excess contact cleaner. Wait 3 to 5 minutes before applying power as contact cleaner is "flammable" and it only takes a small spark to ignite it!

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com <mailto:TS-520_820_530_830%40yahoogroups.com> , jmcphee@... wrote:
>
> Jerry,
>
> Thanks for the suggestion.
>
> It does receive in 10 meters, and the mfj auto tuner that I bought used recently does indicate the same frequency on it's readout as the 830 does on it's. I'm confident that the band switch is completing the the connection.
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>
> Jim McPhee
> Placitas, NM
> KF5BNG
>
>
>
> ----- Original Message -----
> From: "Jerry J Seay" <jjseay@...>
> To: "TS-520 820 530 830" <TS-520_820_530_830@yahoogroups.com <mailto:TS-520_820_530_830%40yahoogroups.com> >
> Sent: Thursday, July 23, 2009 9:01:00 AM GMT -07:00 US/Canada Mountain
> Subject: Re: [TS-520_820_530_830] TS-830S-low output/no indication of ALC on 10 meters
>
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> Jim, I looked through you emails about the this problem and I did not notice any mention of you
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are not actually tuning
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> Jerry, KE5PUT
>
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> >
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> > available to me with my Technician class license.
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> >
> > Question/issue:
> > No ALC level at all when tuning the transmitter on 10 meters. There used

> > to be, when I first got the rig, but not now. Output on 10 meters,
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> > 50 watts. Output on other bands, is 100 watts or close to it.
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> > attempts appeared futile. (Already discussed on this forum.)
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> > of where the carrier control is set.
> >
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> > tune-up on those bands, just for comparison. Output into the dummy load
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> > I've installed the following from Ken Kemski, K4EAA:
> > High-Voltage repair
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> > I have not yet installed Ken's "resistor kit for final repair" although
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> > problem.
> >
> >
> >
> > Regards,
> >
> > Jim McPhee
> > Placitas, NM
> > KF5BNG
> >
> >
> > [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

21884. Re: 830 Plate Choke Value

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-24 19:04:38 UTC
From: Gordon
Topic: 21831 Message: 21884

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Does anyone know the value of the Plate choke used in the 830 and 530 radios?
> I have the Part number from both manuals, but it does NOT give the value. I need a choke and thought I might just rewind one of these burnt ones. it appears to be around 200 turns on the form, but I would like to know the actual value.
>
> thanks,
> Gordon
>

Looks like it is about 230uH. I measured a good one today.

Gordon
N6WK

21885. Re: TS-830S L41 Coil

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-24 19:17:18 UTC
From: Gordon
Topic: 21855 Message: 21885

Hi Ruben,
Hope all is well there. Yes, They can send them to me and for a nominal fee, I will rewind them. :-)
Wx here has been great. Mid to upper 80's everyday.
Radio repair is good.
73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria <ka2hhb_2000@...> wrote:
>
> Very good Gordon ... Now everyone will send them to you...
> Ruben Echevarria KA2HHB
> SKCC #2132 EPC#3390 070 Club#861
> 10-10 International Club #33308
> 30Meter Digital Group #1148
>
>
>
>
> _____
> From: Gordon <n6wk@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, July 23, 2009 12:51:06 AM
> Subject: [TS-520_820_530_830] TS-830S L41 Coil
>
>
> Well, I rewound my first L41 Coil on the RF board of an 830S today.
> It turned out very nice and tunes easily to its peak. Working with the small wire required my magnifying headset, but all was well in the end.
> Now I know I can simply rewind these coils since they are impossible to find and often are shorted due to lightning or high exposure to local RF.
>
> 73,
> Gordon
>
>
>
>
> [Non-text portions of this message have been removed]
>

21886. Re: Help.! needed....TS-820S...smeter...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-24 19:38:02 UTC
From: pissousky
Topic: 21878 Message: 21886

Hi Mike,on receive the meter is at full scale regardless the meter switch position,,alc or ip or rf....but when I switch on transmit everything gets back to normal except only on the alc position who stays max scale....thighten all screws and plugs...no change....any other idea?....thanks--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello Eric,
>
> Since your symptoms are the same in transmit and receive, full
> scale s meter in receive and full scale (ALC position) in transmit,
> I suspect a bad/loose ground/mounting screw(s). It also could be
> a bad connection on one of the IF UNIT plugs. Remove and re-seat
> all plugs to each PC board. Do one plug at a time.
>
> Check all board and chassis ground screws to ensure they are
> tight.
>
> I doubt the problem is a voltage issue since the problem is not
> causing a loss of receiver sensitivity nor is it causing a
> reduction in RF output in transmit mode. You simply have a full
> scale meter in transmit (ALC position) and full scale S meter in
> receive.
>
> Mike W5RKL
>
>
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "pissousky" <pissousky@> wrote:
> >
> > Hello guys,when I turn my 820S on,the smeter goes right to max.(show full scale).I checked the VR1 and VR2 on the IF board but cant bring it down more than half the meter,it receives ,tramsmits good on CW and SSB but nothing happen on the tune position,and when I press the mike the meter works like it should except on the ALC position which stays full scale......anyone can help me????? Eric
> >
>

21887. Re: [TS-520_820_530_830] Re: Help.! needed....TS-820S...smeter...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-24 20:56:09 UTC
From: n6wk@n6wk.com
Topic: 21878 Message: 21887

I would check and clean all the connectors on the IF board.
The 820's are Famous for the springy part of the terminals in the
plastic connectors breaking.
Check carefully for that problem.
73,
Gordon
N6WK

pissousky wrote:
>
>
> Hi Mike,on receive the meter is at full scale regardless the meter
> switch position,,alc or ip or rf....but when I switch on transmit
> everything gets back to normal except only on the alc position who
> stays max scale....thighten all screws and plugs...no change....any
> other idea?....thanks--- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "w5rkl" <w5rkl@...> wrote:
> >
> > Hello Eric,
> >
> > Since your symptoms are the same in transmit and receive, full
> > scale s meter in receive and full scale (ALC position) in transmit,
> > I suspect a bad/loose ground/mounting screw(s). It also could be
> > a bad connection on one of the IF UNIT plugs. Remove and re-seat
> > all plugs to each PC board. Do one plug at a time.
> >
> > Check all board and chassis ground screws to ensure they are
> > tight.
> >
> > I doubt the problem is a voltage issue since the problem is not
> > causing a loss of receiver sensitivity nor is it causing a
> > reduction in RF output in transmit mode. You simply have a full
> > scale meter in transmit (ALC position) and full scale S meter in
> > receive.
> >
> > Mike W5RKL
> >
> >
> >
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "pissousky"
> <pissousky@> wrote:

> > >
> > > Hello guys,when I turn my 820S on,the smeter goes right to
> max.(show full scale).I checked the VR1 and VR2 on the IF board but
> cant bring it down more than half the meter,it receives ,tramsmits
> good on CW and SSB but nothing happen on the tune position,and when I
> press the mike the meter works like it should except on the ALC
> position which stays full scale......anyone can help me????? Eric
> > >
> >
>
>
> M
> <http://groups.yahoo.com/group/TS-520_820_530_830/message/21878;_ylc=X3oDMTM2ODVucGt0BF9
TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzIxODg2BHNlYwNmdHIEc2xrA
3Z0cGMEc3RpbWUDMTI0ODQ2ODY5OQR0cGNJZAMyMTg3OA-->

21888. Can't seem to align speech processor correctly on TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-25 04:04:15 UTC
From: Bill Crowell
Topic: 21888 Message: 21888

I think I aligned the speech processor on my TS-820 exactly as instructed in the Kenwood service manual, but I get much less drive and plate current with the speech processor turned on than with it off.

I was wondering if anybody might know what could cause this.

Does it matter whether I'm using an MC-50 mic or an MC-35 for the speech processor alignment?

21889. low sensitivity in ts510

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-25 15:15:56 UTC
From: oz1bxn
Topic: 21889 Message: 21889

Ts510 has bad ears at 20meter and up .
I try to change the V204 6BZ6 RF amplifier , this helped a tiny bit .However this was just another old tube I had . Would it help to buy a new 6BZ6 ?

Has anyone a mods for improved sensitivity in ts510?

best vy73 de oz1bxn ,chris

21890. Ts-530s question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-25 17:18:44 UTC
From: hotfoot95404
Topic: 21819 Message: 21890

When I'm transmitting cw, sometimes the sidetone will change in pitch and then settle back to normal.The other station will report that my frequency will jump slightly at times.Listened on my receiver and confirmed that it jumps about 10 percent of the time Sometimes when the sidetone isn't acting up. The jump is about 20 to 30 hz Checked the relay and it seems ok.Anyone run across anything like this? 73

Pete AA6ZE

21891. Re: Ts-530s question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-25 20:03:13 UTC
From: w5rkl
Topic: 21819 Message: 21891

Hello Pete,

If this happens in transmit it more than likely also happens in
receive.

I suspect the variable capacitor shaft to capacitor frame contact
in the VFO is dirty. Clean this "pivot" point with contact cleaner
and use canned air, Walmart sells canned air in large cans, to remove
the dirt and excess contact cleaner.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "hotfoot95404" <flyingsub@...> wrote:
>
>
> When I'm transmitting cw, sometimes the sidetone will change in pitch and then settle back to normal.The other station will report that my frequency will jump slightly at times.Listened on my receiver and confirmed that it jumps about 10 percent of the time Sometimes when the sidetone isn't acting up. The jump is about 20 to 30 hz Checked the relay and it seems ok.Anyone run across anything like this? 73
>
> Pete AA6ZE
>

21892. Re: low sensitivity in ts510

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-25 20:08:31 UTC
From: w5rkl
Topic: 21889 Message: 21892

Hello Chris,

Your problem appears to be either old weak tubes, an alignment
problem, or both.

You should only replace tubes that test weak.

You should only perform an alignment when all tubes have been tested
and weak one replaced. Never attempt an alignment if there are weak
tubes in the radio otherwise you will be redoing the alignment
later when you replace the weak tube(s).

If you do not have the operator and service manuals, you can download
them free at N6WK's website:

http://www.n6wk.com/kenwood/

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "oz1bxn" <oz1bxn@...> wrote:
>
> Ts510 has bad ears at 20meter and up .
> I try to change the V204 6BZ6 RF amplifier , this helped a tiny bit .However this was
just another old tube I had . Would it help to buy a new 6BZ6 ?
>
> Has anyone a mods for improved sensitivity in ts510?
>
> best vy73 de oz1bxn ,chris
>

21893. Re: Can't seem to align speech processor correctly on TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-25 20:23:54 UTC
From: w5rkl
Topic: 21888 Message: 21893

Hello Bill,

The 820 requires a high impedance microphone.

The MC-50 is a high impedance microphone and will work fine with
the 820.

The MC-30 microphone, however, is a "low impedance" microphone and
will not work properly with the 820.

I would go back over the alignment procedure again, ensuring that
each adjustment step produces the desired result. If the desired
result is not produced then you would have to determine why before
proceeding to the next step.

I would check the 9VDC and 3.3VDC supplies to ensure they are
correct. These supplies are on the AF UNIT and the check and
adjustment steps are at the beginning of the 820's alignment section
in the service manual.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Bill Crowell" <retroguybilly@...> wrote:
>
> I think I aligned the speech processor on my TS-820 exactly as instructed in the Kenwood service manual, but I get much less drive and plate current with the speech processor turned on than with it off.
>
> I was wondering if anybody might know what could cause this.
>
> Does it matter whether I'm using an MC-50 mic or an MC-35 for the speech processor alignment?
>

21894. Re: low sensitivity in ts510

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-25 20:34:34 UTC
From: oz1bxn
Topic: 21889 Message: 21894

Hi Mike
Well yes thanks. I take that I should be able to "hear the band" when I plug the antenne in, even on 10 . and changing the Tube with another old one , did some improvements . The rig works great on 80 , it just going up bands and sensitivity drops . Alingment should be fairly ok . So new tubes :-)
best vy73 de oz1bxn,chris

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello Chris,
>
> Your problem appears to be either old weak tubes, an alignment
> problem, or both.
>
> You should only replace tubes that test weak.
>
> You should only perform an alignment when all tubes have been tested
> and weak one replaced. Never attempt an alignment if there are weak
> tubes in the radio otherwise you will be redoing the alignment
> later when you replace the weak tube(s).
>
> If you do not have the operator and service manuals, you can download
> them free at N6WK's website:
>
> http://www.n6wk.com/kenwood/
>
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "oz1bxn" <oz1bxn@> wrote:
> >
> > Ts510 has bad ears at 20meter and up .
> > I try to change the V204 6BZ6 RF amplifier , this helped a tiny bit .However this was just another old tube I had . Would it help to buy a new 6BZ6 ?
> >
> > Has anyone a mods for improved sensitivity in ts510?
> >
> > best vy73 de oz1bxn ,chris
> >
>

21895. Re: Ts-530s question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-25 21:47:05 UTC
From: hotfoot95404
Topic: 21819 Message: 21895

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello Pete,
>
> If this happens in transmit it more than likely also happens in
> receive.
>
> I suspect the variable capacitor shaft to capacitor frame contact
> in the VFO is dirty. Clean this "pivot" point with contact cleaner
> and use canned air, Walmart sells canned air in large cans, to remove
> the dirt and excess contact cleaner.
>
> Mike W5RKL
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "hotfoot95404" <flyingsub@> wrote:
> >
> >
> > When I'm transmitting cw, sometimes the sidetone will change in pitch and then settle back to normal.The other station will report that my frequency will jump slightly at times.Listened on my receiver and confirmed that it jumps about 10 percent of the time Sometimes when the sidetone isn't acting up. The jump is about 20 to 30 hz Checked the relay and it seems ok.Anyone run across anything like this? 73
> >
> > Pete AA6ZE
> >
>

Hello Mike,
Thanks for the tip Mike. I'll check it out.73

Pete AA6ZE

21896. Re: [TS-520_820_530_830] Re: Can't seem to align speech processor correctly on TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-26 00:30:30 UTC
From: Dave ve3wej
Topic: 21888 Message: 21896

yeah but he was trying the mc-35 (not the mc-30) which I beleive is also high impedance

maybe you missed that ???

----- Original Message -----
From: "w5rkl" <w5rkl@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, July 25, 2009 4:23 PM
Subject: [TS-520_820_530_830] Re: Can't seem to align speech processor correctly on TS-820S

> Hello Bill,
>
> The 820 requires a high impedance microphone.
>
> The MC-50 is a high impedance microphone and will work fine with
> the 820.
>
> The MC-30 microphone, however, is a "low impedance" microphone and
> will not work properly with the 820.
>
> I would go back over the alignment procedure again, ensuring that
> each adjustment step produces the desired result. If the desired
> result is not produced then you would have to determine why before
> proceeding to the next step.
>
> I would check the 9VDC and 3.3VDC supplies to ensure they are
> correct. These supplies are on the AF UNIT and the check and
> adjustment steps are at the beginning of the 820's alignment section
> in the service manual.
>
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Bill Crowell"
> <retroguybilly@...> wrote:
>>
>> I think I aligned the speech processor on my TS-820 exactly as instructed
>> in the Kenwood service manual, but I get much less drive and plate
>> current with the speech processor turned on than with it off.
>>
>> I was wondering if anybody might know what could cause this.
>>

>> Does it matter whether I'm using an MC-50 mic or an MC-35 for the speech
>> processor alignment?
>>
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> Yahoo! Groups Links
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21897. Problem with TS-830 RIT

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-26 01:14:17 UTC
From: steveb84us
Topic: 21897 Message: 21897

I received this e-mail from a fellow TS-830 owner. I thought I would post his problem here and see if anyone has any ideas of what to look for.

Thanks in advance.

Steve - N9SB

I bought a TS 830 a little over a year ago, I must say, the more I use it, the more I like it.

I don't know if this is normal or not, but the RIT control seems to be acting up. When you first turn the radio on, and you press the switch, the red light comes on, and the knob seems to function normaly. But, after the radio is on for awhile, the frequency setting that you have made with the control will freeze up. I have turning off the RIT, and back on again, and it will still remain non functional, even with the red light on. If the radio is turned off for awhile, and then you turn it back on, then it will work.

It sounds to me like a component tempature issue. Also, the NB control has never seemed to work on my 830, and 820 both. Any ideas of what is happening? If you can't answer these question, please feel free to foreward it to someone who can help.

Thank you for the help and advice that you have given me in the past.

21898. Re: Can't seem to align speech processor correctly on TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-26 12:45:06 UTC
From: w5rkl
Topic: 21888 Message: 21898

Yep you're right Dave. The MC-35 is a high impedance microphone. My mistake.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@...> wrote:
>
> yeah but he was trying the mc-35 (not the mc-30) which I beleive is also
> high impedance
>
> maybe you missed that ???
>
>
>
>
> ----- Original Message -----
> From: "w5rkl" <w5rkl@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Saturday, July 25, 2009 4:23 PM
> Subject: [TS-520_820_530_830] Re: Can't seem to align speech processor
> correctly on TS-820S
>
>
> > Hello Bill,
> >
> > The 820 requires a high impedance microphone.
> >
> > The MC-50 is a high impedance microphone and will work fine with
> > the 820.
> >
> > The MC-30 microphone, however, is a "low impedance" microphone and
> > will not work properly with the 820.
> >
> > I would go back over the alignment procedure again, ensuring that
> > each adjustment step produces the desired result. If the desired
> > result is not produced then you would have to determine why before
> > proceeding to the next step.
> >
> > I would check the 9VDC and 3.3VDC supplies to ensure they are
> > correct. These supplies are on the AF UNIT and the check and
> > adjustment steps are at the beginning of the 820's alignment section
> > in the service manual.
> >
> > Mike W5RKL
> >

> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Bill Crowell"
> > <retroguybilly@> wrote:
> >>
> >> I think I aligned the speech processor on my TS-820 exactly as instructed
> >> in the Kenwood service manual, but I get much less drive and plate
> >> current with the speech processor turned on than with it off.
> >>
> >> I was wondering if anybody might know what could cause this.
> >>
> >> Does it matter whether I'm using an MC-50 mic or an MC-35 for the speech
> >> processor alignment?
> >>
> >
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> > Yahoo! Groups Links
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21899. Re: [TS-520_820_530_830] Re: low sensitivity in ts510

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-26 21:24:55 UTC
From: Daniel TOESCA
Topic: 21889 Message: 21899

Hi Chris,

Another weakness is that the 1st xtal oscillator output drops as frequency raises, so lower injection voltage in the 1st rx mixer and 2nd tx mixer - I had this joke with a TS-515.

To test tubes, measure the various voltages, especially cathode voltage for penthode tubes such as 6BA6, 6AU6, 6BZ6. That's how I worked with B/W TV sets many years ago. Testmeters are not always reliable.

73's - Daniel, ON5PY

2009/7/25, oz1bxn <oz1bxn@...>:
>
>
>
> Hi Mike
> Well yes thanks. I take that I should be able to "hear the band" when I
> plug the antenne in, even on 10 . and changing the Tube with another old one
> , did some improvements . The rig works great on 80 , it just going up bands
> and sensitivity drops . Alingment should be fairly ok . So new tubes :-)
> best vy73 de oz1bxn,chris
>
>
> --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> "w5rkl" <w5rkl@...> wrote:
> >
> > Hello Chris,
> >
> > Your problem appears to be either old weak tubes, an alignment
> > problem, or both.
> >
> > You should only replace tubes that test weak.
> >
> > You should only perform an alignment when all tubes have been tested
> > and weak one replaced. Never attempt an alignment if there are weak
> > tubes in the radio otherwise you will be redoing the alignment
> > later when you replace the weak tube(s).
> >
> > If you do not have the operator and service manuals, you can download
> > them free at N6WK's website:
> >
> > http://www.n6wk.com/kenwood/
> >
> > Mike W5RKL
> >

> >
> > --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> "oz1bxn" <oz1bxn@> wrote:
> > >
> > > Ts510 has bad ears at 20meter and up .
> > > I try to change the V204 6BZ6 RF amplifier , this helped a tiny bit
> .However this was just another old tube I had . Would it help to buy a new
> 6BZ6 ?
> > >
> > > Has anyone a mods for improved sensitivity in ts510?
> > >
> > > best vy73 de oz1bxn ,chris
> > >
> >
>
>
>

[Non-text portions of this message have been removed]

21900. Re: DG-5 Failure

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-26 22:51:33 UTC
From: scott10k
Topic: 21858 Message: 21900

Thanks to Mike and Dave for your replies. I was able to restore the digital display by doing the following. First, I believe that Dick is correct and one of the power resistors overheated causing the smoke. I replace the rectifier diode, D18, and also discovered by tracing the circuit a short following the output of the 7805 regulator. The short was corrected and then I got two decimals in the display. Cleaning the RCA jacks for the Het and VFO outputs (in the TS-520S) and inputs (DG-5) fully restored the display. Thanks again for your help.
73s, Scott, N6CIC

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> The DG-5 has an internal 7805, 5V, regulator that provides
> 5VDC to the TTL logic circuits. There is also the analog power
> provided by Q31 and zener diode D17. Zener diode D17 sets Q31's
> base voltage. Q2 controls the 4.5VDC LED voltage. All 3 of these
> voltages are produced from the 13.5VDC provided by the 520S/520SE's
> 13.5VDC power supply available on the rear panel of the 520S/520SE.
>
> I doubt the 7805 regulator caused the smoke. More than likely
> one of the resistors in the power circuits caused the smoke due to
> a failed diode, transistor, or both.
>
> See the DG-5 service manual, page 23, for further details on the
> power circuit.
>
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@> wrote:
> >
> > does the dg5 have a regulator circuit inside, maybe that is where the smoke
> > came from, causing the 520s to be on a shorted circuit (and overheating).
> >
> >
> > ----- Original Message -----
> > From: "scott10k" <scottandalene@>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Thursday, July 23, 2009 1:46 AM
> > Subject: [TS-520_820_530_830] DG-5 Failure
> >
> >
> > > My DG-5 suddenly emitted a little smoke from the back of the case and
> > > stopped showing any display. I removed the PCB from the case and noted
> > > that with DC voltage applied from the TS-520S, the power resistors R-125,
> > > R-126, and R-129 were getting extremely hot, so I shut the unit off. Any

> > > ideas of how I could determine what may have happened and how to fix it
> > > will be appreciated.
> > > TNX and 73s, Scott, N6CIC
> > >
> > >
> > >
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> > >
> > > Yahoo! Groups Links
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21901. TS-520 IOTA success!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-26 22:59:47 UTC
From: Gordon JC Pearce
Topic: 21901 Message: 21901

Well then, that's me home from IOTA. This year our club pitched up on my croft on the Isle of Skye - two stations in a caravan and a tent, powered by a generator. If you worked GM4AGG or GM7WOS, you worked us ;-)

I brought my TS-520 along, and took the 20m 1/4 wave vertical I use down here in Glasgow. I set these up on the Friday night and fired it all up just to check that the radio had survived the trip, and was almost immediately rewarded with a QSO with K1GUN in Maine on 20m and AA2KB in New York on 40m when I flung the loading coil on.

The "other" (okay, main) station used a fairly modern rig and MFJ autotuner into a delta loop - "our" station used an MFJ-949 and a full-size G5RV driven by my TS-520. We're not particularly hardcore contesters, so 111 contacts for the "backup" station wasn't too bad.

"Okay", I hear you all say, "but what about the TS-520?" Well, it performed more-or-less faultlessly on 3.5, 7, 14 and 21 although it seemed reluctant to transmit on 28MHz and when hooked up to a reasonably accurate power meter it wasn't putting out any more than about 70W. Time to check and change those screen grid resistors I think. The radio was powered up for pretty much the whole 24 hours (we unplugged the generator cable leading to that tent to re-route it to avoid puddles - fairly heavy rain this morning clearing to 40-50mph winds and bright warm sunshine by lunchtime, a typical Scottish summer). Looking at the log it was active pretty solidly on 7MHz for four hours at one point.

So, what now? Well as I said, I want to get the low output power sorted out and track down the lack of 28MHz. Maybe the reason 10m has seemed so dead here is that my radio is just plain not working on that band. I'm planning a trip up north next weekend too, so if I'm up there and if I have time I'll be active on 80m

Gordon 2M0YEQ

21902. incorrect displayed frequency

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-26 23:15:02 UTC
From: ve3wej
Topic: 21902 Message: 21902

I see these messages go by, and also searched the old messages and tried to find my answer, but no luck (unless someone can direct me to the correct message number)

I have a ts820s, that operates just fine, except for the digital display. for example the digits are showing 162 3.3 where i am actually on 14.080.0 (or close to it), copying rtty,

check the avr unit, although with the display being on, did not think there was a problem, 14v in 4.78v out

suspect counter unit, do I have to pull it, or can I check pins??

21903. amazing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-26 23:04:37 UTC
From: Harlan
Topic: 21903 Message: 21903

Hi-I am only a tech class right now, and I am amaized at what I have already learned just reading about the repairs to get things going again. I have the ts820 from my late Bro/Law, and am following through with what gets discussed here. I have a ts130se DOA for $25 if anyone needs parts.
Harlan Bloom KJ4GXN

21904. Re: low sensitivity in ts510

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-26 23:34:48 UTC
From: oz1bxn
Topic: 21889 Message: 21904

Hi Daniel , yes you are right on the Xtal osc , 40m is max and 20 15 10 is only half for this voltage .
By checking the cathode voltage ,good point to see if the tube is pulling some current . Hm , I still would like to get me a new NOS 6BZ6 :-)
vy73 de oz1bxn,chris

--- In TS-520_820_530_830@yahoogroups.com, Daniel TOESCA <ON5PY1967@...> wrote:
>
> Hi Chris,
>
> Another weakness is that the 1st xtal oscillator output drops as frequency
> raises, so lower injection voltage in the 1st rx mixer and 2nd tx mixer - I
> had this joke with a TS-515.
>
> To test tubes, measure the various voltages, especially cathode voltage for
> penthode tubes such as 6BA6, 6AU6, 6BZ6. That's how I worked with B/W TV
> sets many years ago. Testmeters are not always reliable.
>
> 73's - Daniel, ON5PY
>
>
> 2009/7/25, oz1bxn <oz1bxn@...>:
> >
> >
> >
> > Hi Mike
> > Well yes thanks. I take that I should be able to "hear the band" when I
> > plug the antenne in, even on 10 . and changing the Tube with another old one
> > , did some improvements . The rig works great on 80 , it just going up bands
> > and sensitivity drops . Alingment should be fairly ok . So new tubes :-)
> > best vy73 de oz1bxn,chris
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> > "w5rkl" <w5rkl@> wrote:
> > >
> > > Hello Chris,
> > >
> > > Your problem appears to be either old weak tubes, an alignment
> > > problem, or both.
> > >
> > > You should only replace tubes that test weak.
> > >
> > > You should only perform an alignment when all tubes have been tested
> > > and weak one replaced. Never attempt an alignment if there are weak

> > > tubes in the radio otherwise you will be redoing the alignment
> > > later when you replace the weak tube(s).
> > >
> > > If you do not have the operator and service manuals, you can download
> > > them free at N6WK's website:
> > >
> > > http://www.n6wk.com/kenwood/
> > >
> > > Mike W5RKL
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> > "oz1bxn" <oz1bxn@> wrote:
> > > >
> > > > Ts510 has bad ears at 20meter and up .
> > > > I try to change the V204 6BZ6 RF amplifier , this helped a tiny bit
> > .However this was just another old tube I had . Would it help to buy a new
> > 6BZ6 ?
> > > >
> > > > Has anyone a mods for improved sensitivity in ts510?
> > > >
> > > > best vy73 de oz1bxn ,chris
> > > >
> > >
> > >
> > >
> >
> >
> [Non-text portions of this message have been removed]
>

21905. TS-820S parts to go..!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-26 23:54:34 UTC
From: pissousky
Topic: 21905 Message: 21905

Hello guys,I am not here as a business but I thought that someone might need parts for whatever repairs so I tought I would offer them to the group first...I have a TS-820S here that I used the power transformer for another radio...All the boards,af-avr-rf-if-pll-vox-rectifier-HV-rotary switches-ect.. so as coil pack with band switch,relays,display,meter,knobs,driver and finals,etc...are in great working order,tell me which part you need and I'll give you a price....thanks (email:erpi1182@...)

21906. ATTN: KJ4GXN [TS-520_820_530_830] amazing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-27 00:39:13 UTC
From: Charlie , W5COV
Topic: 21906 Message: 21906

Is the ts130se complete Harlan ?

Thanks ,

Charlie , W5COV
w5cov@...

[Non-text portions of this message have been removed]

21907. Re: incorrect displayed frequency

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-27 03:36:03 UTC
From: w5rkl
Topic: 21902 Message: 21907

I assume your 4.78VDC output was measured on pin 1 of the 5V-AVR UNIT mounted on the tall stand-off next to the IF Unit board. This provides the 5VDC for the Counter Unit. The Counter Unit also requires 14VDC on pin 4 of the bottom edge connector on the bottom of the Counter Unit.

You might try cleaning the bottom edge connector on the bottom of the Counter Unit along with the Counter Unit's protruding edge connection on the bottom of the Counter Unit itself. Also clean the multi-pin connection and plug on the top of the Counter Unit and check all mounting screw holding the Counter Unit and DG-1 display tube mounting screws to the chassis and mounting brackets to ensure they are tight.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "ve3wej" <ve3wej@...> wrote:
>
> I see these messages go by, and also searched the old messages and tried to find my answer, but no luck (unless someone can direct me to the correct message number)
>
> I have a ts820s, that operates just fine, except for the digital display. for example the digits are showing 162 3.3 where i am actually on 14.080.0 (or close to it), copying rtty,
>
> check the avr unit, although with the display being on, did not think there was a problem, 14v in 4.78v out
>
> suspect counter unit, do I have to pull it, or can I check pins??
>

21908. Re: DG-5 Failure

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-27 04:47:29 UTC
From: scott10k
Topic: 21858 Message: 21908

Sorry I meant that Mike (not Dick) was correct as to the source of the smoke! 73s, Scott, N6CIC

--- In TS-520_820_530_830@yahoogroups.com, "scott10k" <scottandalene@...> wrote:
>
> Thanks to Mike and Dave for your replies. I was able to restore the digital display by doing the following. First, I believe that Dick is correct and one of the power resistors overheated causing the smoke. I replace the rectifier diode, D18, and also discovered by tracing the circuit a short following the output of the 7805 regulator. The short was corrected and then I got two decimals in the display. Cleaning the RCA jacks for the Het and VFO outputs (in the TS-520S) and inputs (DG-5) fully restored the display. Thanks again for your help.
> 73s, Scott, N6CIC
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > The DG-5 has an internal 7805, 5V, regulator that provides
> > 5VDC to the TTL logic circuits. There is also the analog power
> > provided by Q31 and zener diode D17. Zener diode D17 sets Q31's
> > base voltage. Q2 controls the 4.5VDC LED voltage. All 3 of these
> > voltages are produced from the 13.5VDC provided by the 520S/520SE's
> > 13.5VDC power supply available on the rear panel of the 520S/520SE.
> >
> > I doubt the 7805 regulator caused the smoke. More than likely
> > one of the resistors in the power circuits caused the smoke due to
> > a failed diode, transistor, or both.
> >
> > See the DG-5 service manual, page 23, for further details on the
> > power circuit.
> >
> > Mike W5RKL
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@> wrote:
> > >
> > > does the dg5 have a regulator circuit inside, maybe that is where the smoke
> > > came from, causing the 520s to be on a shorted circuit (and overheating).
> > >
> > >
> > > ----- Original Message -----
> > > From: "scott10k" <scottandalene@>
> > > To: <TS-520_820_530_830@yahoogroups.com>
> > > Sent: Thursday, July 23, 2009 1:46 AM
> > > Subject: [TS-520_820_530_830] DG-5 Failure
> > >

> > >
> > > > My DG-5 suddenly emitted a little smoke from the back of the case and
> > > > stopped showing any display. I removed the PCB from the case and noted
> > > > that with DC voltage applied from the TS-520S, the power resistors R-125,
> > > > R-126, and R-129 were getting extremely hot, so I shut the unit off. Any
> > > > ideas of how I could determine what may have happened and how to fix it
> > > > will be appreciated.
> > > > TNX and 73s, Scott, N6CIC
> > > >
> > > >
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> > > > Yahoo! Groups Links
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>

21909. Re: DG-5 Failure

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-27 13:16:30 UTC
From: w5rkl
Topic: 21858 Message: 21909

Congratulations Scott on fixing your DG-5. I'm sure you have a feeling of accomplishment and rightfully so! It is always good to hear that hams, like yourself, are able to fix their own gear. That's how we ALL learn.

I use to own a TS-520SE with a DG-5 quite awhile ago. Ran it on RTTY using a home made terminal unit, tone modulator/demodulator, I built into an old military VTVM plastic case. I used an old TRS-80 Model 1 computer running TRSDOS and my own designed Z80 assembly language software. As many old timers know who use them, the TRS-80 Model 1 generated a lot of RF computer noise. The RF noise could be heard quite a distance from the computer and that's what prompted the Radio Shack to correct the problem which they did, sorta, by bringing out the TRS-80 Model III followed by the Model IV and Model 4P. The Model 4P was a great computer for its time. I had one and programming in assembly language was much simpler especially with the various RST interrupt calls.

RTTY ragchewing was a lot more active on a daily basis back then, then it is today. In comparison, RTTY was as active back then as PSK is today. PSK wasn't even heard of back then. I still get on RTTY now and then with an old AEA PK-232MBX and home made Visual Basic 6 software. Oh well, things do change over time.

Hard copy was on a Teletype Model 28 KSR I built up from scratch, I was a teletype repairman in the Navy for 17 years. Had a lot of fun back then.

Again, Scott, congratulations and enjoy the DG-5 and TS-520S.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "scott10k" <scottandalene@...> wrote:
>
> Sorry I meant that Mike (not Dick) was correct as to the source of the smoke! 73s, Scott, N6CIC
>
> --- In TS-520_820_530_830@yahoogroups.com, "scott10k" <scottandalene@> wrote:
> >
> > Thanks to Mike and Dave for your replies. I was able to restore the digital display by doing the following. First, I believe that Dick is correct and one of the power resistors overheated causing the smoke. I replace the rectifier diode, D18, and also discovered by tracing the circuit a short following the output of the 7805 regulator. The short was corrected and then I got two decimals in the display. Cleaning the RCA jacks for the Het and VFO outputs (in the TS-520S) and inputs (DG-5) fully restored the display. Thanks again for your help.

> > 73s, Scott, N6CIC
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > >
> > > The DG-5 has an internal 7805, 5V, regulator that provides
> > > 5VDC to the TTL logic circuits. There is also the analog power
> > > provided by Q31 and zener diode D17. Zener diode D17 sets Q31's
> > > base voltage. Q2 controls the 4.5VDC LED voltage. All 3 of these
> > > voltages are produced from the 13.5VDC provided by the 520S/520SE's
> > > 13.5VDC power supply available on the rear panel of the 520S/520SE.
> > >
> > > I doubt the 7805 regulator caused the smoke. More than likely
> > > one of the resistors in the power circuits caused the smoke due to
> > > a failed diode, transistor, or both.
> > >
> > > See the DG-5 service manual, page 23, for further details on the
> > > power circuit.
> > >
> > > Mike W5RKL
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@> wrote:
> > > >
> > > > does the dg5 have a regulator circuit inside, maybe that is where the smoke
> > > > came from, causing the 520s to be on a shorted circuit (and overheating).
> > > >
> > > >
> > > > ----- Original Message -----
> > > > From: "scott10k" <scottandalene@>
> > > > To: <TS-520_820_530_830@yahoogroups.com>
> > > > Sent: Thursday, July 23, 2009 1:46 AM
> > > > Subject: [TS-520_820_530_830] DG-5 Failure
> > > >
> > > >
> > > > > My DG-5 suddenly emitted a little smoke from the back of the case and
> > > > > stopped showing any display. I removed the PCB from the case and noted
> > > > > that with DC voltage applied from the TS-520S, the power resistors R-125,
> > > > > R-126, and R-129 were getting extremely hot, so I shut the unit off. Any
> > > > > ideas of how I could determine what may have happened and how to fix it
> > > > > will be appreciated.
> > > > > TNX and 73s, Scott, N6CIC
> > > > >
> > > > >
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> > > > > ------------------------------------
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> > > > > Yahoo! Groups Links
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>

21910. Re: KJ4GXN [TS-520_820_530_830] amazing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-27 11:14:56 UTC
From: harlan
Topic: 21910 Message: 21910

No it's not-My late friend sold the top cover and ptt relay.

----- Original Message -----
From: Charlie , W5COV
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, July 26, 2009 8:39 PM
Subject: ATTN: KJ4GXN [TS-520_820_530_830] amazing

Is the ts130se complete Harlan ?

Thanks ,

Charlie , W5COV
w5cov@...

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

21911. Hi folks...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-27 15:54:40 UTC
From: therealgeno1966
Topic: 21911 Message: 21911

Walt invited me to join the group last week. Name here is Gene, WB9UOK. Been a ham since 1962 on and off. Last time I have been licensed continueously since 1976. Extra class since 1984. Have owned 520s, 820s and 830s thru the years. Last HF Kenwood rig was a 940s which I didn't like very much. Still have a place in my heart for my old 820 that I had great success with.
73s Gene Ingram
New Castle, In.

21912. Re: Hi folks...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-27 17:19:11 UTC
From: w5rkl
Topic: 21911 Message: 21912

Hello Gene,

Welcome to the forum, glad to have you aboard. If you have any
questions please feel free to ask them, we're all here to help.

You might have a look around the files section as this area contains
a number of good articles and fixes along with manuals etc., that
may, now or in the future, help you with problems you may encounter.

Again, welcome to the forum Gene.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "therealgeno1966" <geno1966@...> wrote:
>
> Walt invited me to join the group last week. Name here is Gene, WB9UOK. Been a ham since 1962 on and off. Last time I have been licensed continueously since 1976. Extra class since 1984. Have owned 520s, 820s and 830s thru the years. Last HF Kenwood rig was a 940s which I didn't like very much. Still have a place in my heart for my old 820 that I had great success with.
> 73s Gene Ingram
> New Castle, In.
>

21913. Re: KJ4GXN [TS-520_820_530_830] amazing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-27 20:12:55 UTC
From: Charlie , W5COV
Topic: 21910 Message: 21913

I would still be interested in Harlan , if you will contact me off list at : w5cov@...
Best 73 ,
Charlie , W5COV

----- Original Message -----
From: harlan
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, July 27, 2009 6:14 AM
Subject: Re: KJ4GXN [TS-520_820_530_830] amazing

No it's not-My late friend sold the top cover and ptt relay.

----- Original Message -----
From: Charlie , W5COV
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, July 26, 2009 8:39 PM
Subject: ATTN: KJ4GXN [TS-520_820_530_830] amazing

Is the ts130se complete Harlan ?

Thanks ,

Charlie , W5COV
w5cov@...

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

21914. Re: amazing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-27 00:19:28 UTC
From: pissousky
Topic: 21903 Message: 21914

I would like to buy your ts-130se,email me with the details...thanks....(erpi1182@...)---
In TS-520_820_530_830@yahoogroups.com, "Harlan" <hbloom@...> wrote:
>
> Hi-I am only a tech class right now, and I am amaized at what I have already learned just reading about the repairs to get things going again. I have the ts820 from my late Bro/Law, and am following through with what gets discussed here. I have a ts130se DOA for $25 if anyone needs parts.
> Harlan Bloom KJ4GXN
>

21915. Re: [TS-520_820_530_830] TS-520 IOTA success!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-27 20:41:27 UTC
From: Dave and Loraine
Topic: 21901 Message: 21915

Hi Gordon,
Well done on the 520.
Hardly any difference between 100W and 70W at the receiver.
Aren't you limited to 50W on your call anyway?
Cheers
Dave f4eyk

21916. Re: [TS-520_820_530_830] Re: incorrect displayed frequency

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-27 20:36:20 UTC
From: Dave ve3wej
Topic: 21902 Message: 21916

how do I get the counter unit out to check it, Mike, or do I go in through
the bottom of the radio

----- Original Message -----
From: "w5rkl" <w5rkl@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, July 26, 2009 11:36 PM
Subject: [TS-520_820_530_830] Re: incorrect displayed frequency

>I assume your 4.78VDC output was measured on pin 1 of the 5V-AVR UNIT
> mounted on the tall stand-off next to the IF Unit board. This
> provides the 5VDC for the Counter Unit. The Counter Unit also requires
> 14VDC on pin 4 of the bottom edge connector on the bottom of the
> Counter Unit.
>
> You might try cleaning the bottom edge connector on the bottom of
> the Counter Unit along with the Counter Unit's protruding edge
> connection on the bottom of the Counter Unit itself. Also clean
> the multi-pin connection and plug on the top of the Counter Unit and
> check all mounting screw holding the Counter Unit and DG-1 display
> tube mounting screws to the chassis and mounting brackets to ensure
> they are tight.
>
> Mike W5RKL
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "ve3wej" <ve3wej@...> wrote:
>>
>> I see these messages go by, and also searched the old messages and tried
>> to find my answer, but no luck (unless someone can direct me to the
>> correct message number)
>>
>> I have a ts820s, that operates just fine, except for the digital display.
>> for example the digits are showing 162 3.3 where i am actually on
>> 14.080.0 (or close to it), copying rtty,
>>
>> check the avr unit, although with the display being on, did not think
>> there was a problem, 14v in 4.78v out
>>
>> suspect counter unit, do I have to pull it, or can I check pins??
>>
>
>

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> Yahoo! Groups Links
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21917. Re: [TS-520_820_530_830] Re: incorrect displayed frequency

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-27 21:00:57 UTC
From: Dave ve3wej
Topic: 21902 Message: 21917

ok, mike

pin 1 of the 5v avr unit (4.78 volts) (yes)

>The Counter Unit also requires 14VDC on pin 4 of the bottom edge connector
>on the bottom of the
> Counter Unit.

got to pin 4 this has 12.7 volts
is this voltage nominal,, or does it have to be brought up higher

21918. Re: incorrect displayed frequency

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-27 21:55:07 UTC
From: w5rkl
Topic: 21902 Message: 21918

To remove the counter unit, perform the following steps with the
820 powered OFF and power cable removed from the wall outlet.

The Counter Unit is located on the top left Netween the VFO
and the IF Unit board. The IF Unit board is mounted along the
left side of the 820. Make sure when performing step 4 you do not
remove any of the IF Unit plugs.

1. Remove top and bottom covers

2. Remove the multi-pin plug from the top of the Counter Unit. This
plug terminates at the digital display tube mounted behind the
front panel. You do NOT have to remove the digital display tube,
simply move the plug aside so it does not interfere with removing
the Counter Unit. Remove the 5V-AVR Unit plug which is directly
behind the Counter Unit assembly. Do this only to keep from breaking
or bending any of the pins while remove the Counter Unit assembly.

3. Turn the 820 upside down, front panel facing you.

4. The Counter Unit plug will be on the right, remove it by gently
pulling it off.

5. Turn the 820 right side up, front panel facing you.

6. Loosen the Counter Assembly mounting screws at the edge of the
Counter Unit and gently lift the Counter Unit from the 820 chassis.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@...> wrote:
>
> how do I get the counter unit out to check it, Mike, or do I go in through
> the bottom of the radio
>
>
>
> ----- Original Message -----
> From: "w5rkl" <w5rkl@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Sunday, July 26, 2009 11:36 PM
> Subject: [TS-520_820_530_830] Re: incorrect displayed frequency
>
>
> >I assume your 4.78VDC output was measured on pin 1 of the 5V-AVR UNIT
> > > mounted on the tall stand-off next to the IF Unit board. This
> > > provides the 5VDC for the Counter Unit. The Counter Unit also requires

> > 14VDC on pin 4 of the bottom edge connector on the bottom of the
> > Counter Unit.
> >
> > You might try cleaning the bottom edge connector on the bottom of
> > the Counter Unit along with the Counter Unit's protruding edge
> > connection on the bottom of the Counter Unit itself. Also clean
> > the multi-pin connection and plug on the top of the Counter Unit and
> > check all mounting screw holding the Counter Unit and DG-1 display
> > tube mounting screws to the chassis and mounting brackets to ensure
> > they are tight.
> >
> > Mike W5RKL
> >
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "ve3wej" <ve3wej@> wrote:
> >>
> >> I see these messages go by, and also searched the old messages and tried
> >> to find my answer, but no luck (unless someone can direct me to the
> >> correct message number)
> >>
> >> I have a ts820s, that operates just fine, except for the digital display.
> >> for example the digits are showing 162 3.3 where i am actually on
> >> 14.080.0 (or close to it), copying rtty,
> >>
> >> check the avr unit, although with the display being on, did not think
> >> there was a problem, 14v in 4.78v out
> >>
> >> suspect counter unit, do I have to pull it, or can I check pins??
> >>
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> > ------------------------------------
> >
> > Yahoo! Groups Links
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21919. Re: incorrect displayed frequency

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-27 21:56:30 UTC
From: w5rkl
Topic: 21902 Message: 21919

The voltage measured at pin 4 of the 5V-AVR Unit is the loaded
voltage based on the 7805 regulator.

The 14 volt source is located on the Rectifier Unit but the filter
capacitors for that supply are located on the Relay Unit, 2 x 2200ufd
25VDC radial lead capacitors.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@...> wrote:
>
> ok, mike
>
> pin 1 of the 5v avr unit (4.78 volts) (yes)
>
>
> >The Counter Unit also requires 14VDC on pin 4 of the bottom edge connector
> >on the bottom of the
> > Counter Unit.
>
> got to pin 4 this has 12.7 volts
> is this voltage nominal,, or does it have to be brought up higher
>

21920. Re: [TS-520_820_530_830] TS-520 IOTA success!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-27 22:03:20 UTC
From: Gordon JC Pearce
Topic: 21901 Message: 21920

On Mon, 2009-07-27 at 22:41 +0200, Dave and Loraine wrote:
> Hi Gordon,
> Well done on the 520.

Thanks!

> Hardly any difference between 100W and 70W at the receiver.

That's true, but if the TX is down on power it may be symptomatic of other problems. In particular there are a couple of high-value resistors that go even higher and cause mayhem with the screen grid supply.

> Aren't you limited to 50W on your call anyway?

On *my* callsign yes, not on the club callsign. The two stations were operating under GM4AGG for the main station and GM7WOS for "my" station. When I'm using it at the house I just turn the wick down a bit.

> Cheers
> Dave f4eyk

That callsign looks familiar - did I talk to you over the weekend? I haven't got the logs here ;-)

Gordon 2M0YEQ

21921. Re: incorrect displayed frequency

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-27 22:53:25 UTC
From: Dave ve3wej
Topic: 21902 Message: 21921

Hey Mike, I fixed it..

removed the "counter unit" completely and disassembled both halfs. clean
the contacts with a pencil eraser, scraped the contacts while re sandwiching
the 2 boards, and reinstalled the assembly.

powering up and there she be 14080 as it should be and working on all bands
now too....

thanks for the push....

Dave Garber
VE3IE/VE3WEJ

21922. RE: [TS-520_820_530_830] TS-830S-low output/no indication of ALC on 10 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-27 23:26:00 UTC
From: L K
Topic: 21843 Message: 21922

Hey, Jerry

I didn't know you are in this forum.

Small world!

73 CUL
Larry

-----Original Message-----
From: "Jerry J Seay" <jjseay@...>

Great, it would have been a heart breaker to have worked a dozen issues only to find that the band
switch coupler was slipping.

Good luck,

Jerry, KE5PUT

On Thursday 23 July 2009 02:05:16 pm

21923. Re: [TS-520_820_530_830] TS-830S-low output/no indication of ALC on 10 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-28 01:51:13 UTC
From: Jerry J Seay
Topic: 21843 Message: 21923

Yes, been here a while. Just listen most of the time.

Jerry, KE5PUT

On Monday 27 July 2009 06:26:00 pm L K wrote:
> Hey, Jerry
>
> I didn't know you are in this forum.
>
> Small world!
>
> 73 CUL
> Larry
>
> -----Original Message-----
> From: "Jerry J Seay" <jjseay@...>
>
> Great, it would have been a heart breaker to have worked a dozen issues
> only to find that the band switch coupler was slipping.
>
> Good luck,
>
> Jerry, KE5PUT
>
> On Thursday 23 July 2009 02:05:16 pm

21924. Re: incorrect displayed frequency

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-28 02:24:07 UTC
From: w5rkl
Topic: 21902 Message: 21924

You're welcome Dave and congratulations on fixing the radio.

The PLL and CAR UNIT assemblies have the same assembly, 2 PC boards
sandwiched together with fixed pins inside the metal enclosure.
Those pins, over time, can become dirty and corroded. This affects
the radio quite a bit if they do become dirty and corroded.

The ground/mounting screws on the PC boards should also be checked
to ensure they have not worked loose over time, heat, and vibration.

A lot of problems can also be caused by loose ground mounting
screws.

Again, congratulations on a job well done.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@...> wrote:
>
> Hey Mike, I fixed it..
>
>
> removed the "counter unit" completely and disassembled both halfs. clean
> the contacts with a pencil eraser, scraped the contacts while re sandwiching
> the 2 boards, and reinstalled the assembly.
>
>
> powering up and there she be 14080 as it should be and working on all bands
> now too....
>
>
> thanks for the push....
>
>
> Dave Garber
> VE3IE/VE3WEJ
>

21925. Re: TS-830S-low output/no indication of ALC on 10 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-28 14:00:14 UTC
From: Andrew
Topic: 21843 Message: 21925

--- In TS-520_820_530_830@yahoogroups.com, "Jim McPhee" <jmcphee@...> wrote:

>
> Regards,
>
> Jim McPhee
> Placitas, NM
> KF5BNG
>
>
> [Non-text portions of this message have been removed]
>
Hi Jim,
this is where logical fault finding comes in useful - the intuitive "flash of genius" method works only often enough for us to keep trying it hi hi, so grab yourself a piece of A4 paper, and start making some notes.

You have defined the problem as low output/no ALC on 10m. Does it go OK on ALL other bands - have you checked them all, made a chart?
You mention its on 28.375Mhz - whats it like across the band, try at bottom edge and top edge. Does it receive OK on 10M, or is that bad as well?

If its OK on all other bands, then its not the bandswitch(s) - except if the PA tank circuit has fried that particular circuit. A visual inspection will reveal this. If its arcing, you will hear/smell it, and output level will vary. While your at it, wriggle the switch while on TX, see if theres any variation in output. Dirty contacts are USUALLY intermittent, show up as erratic performance on TX and RX. Given the age of the radio, cleaning the switch contacts is regarded as "routine maintenance" and should be done on any "new" radio that comes into the shack.

My own "flash of genius" suggestion is to check around the driver stage - the bandswitch section in particular. Possibly too it is out of alignment on TX - the compulsion to twiddle coils/trimmers is irresistible to some people.

If you have a CRO, look at the drive levels to the 6146's. If you don't, now is the time to research RF probes - any ARRL handbook will give you the theory. BTW - good quality used test equipment is now ridiculously cheap, a decent 20Mhz CRO should be obtainable for under the 200db range. (Modern gear is so reliable, its easier to swap it out than maintain skilled techs and expensive gear to fix things....)

Hope this helps, it is a bit of a rant I admit.

73 de VK3BFA Andrew.

21926. NEED KENWOOD DISCUSSION GROUP ADVICE (If Possible)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-28 22:16:17 UTC
From: popzemail
Topic: 21926 Message: 21926

I just acquired a Kenwood TS-440S with auto tuner and hoped someone in the group could suggest a discussion group similar to this outstanding group for this particular rig? Any & All suggestions are welcome.

73's, John VE3IZM

21927. Re: [TS-520_820_530_830] NEED KENWOOD DISCUSSION GROUP ADVICE (If Possible)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-28 22:56:59 UTC
From: Dave ve3wej
Topic: 21926 Message: 21927

i beleive the ts440 has its own group.. did you search (in case no one answers you)

----- Original Message -----
From: "popzemail" <popzemail@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, July 28, 2009 6:16 PM
Subject: [TS-520_820_530_830] NEED KENWOOD DISCUSSION GROUP ADVICE (If Possible)

>I just acquired a Kenwood TS-440S with auto tuner and hoped someone in the
>group could suggest a discussion group similar to this outstanding group
>for this particular rig? Any & All suggestions are welcome.
>
> 73's, John VE3IZM
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

21928. Re: [TS-520_820_530_830] NEED KENWOOD DISCUSSION GROUP ADVICE (If Possible)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-29 02:03:58 UTC
From: Michael
Topic: 21926 Message: 21928

There is a Kenwood TS-440 yahoo group, just do a search for it it the yahoo group's

--- On Tue, 7/28/09, popzemail <popzemail@...> wrote:

From: popzemail <popzemail@...>
Subject: [TS-520_820_530_830] NEED KENWOOD DISCUSSION GROUP ADVICE (If Possible)
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, July 28, 2009, 5:16 PM

I just acquired a Kenwood TS-440S with auto tuner and hoped someone in the group could suggest a discussion group similar to this outstanding group for this particular rig? Any & All suggestions are welcome.

73's, John VE3IZM

[Non-text portions of this message have been removed]

21929. Re: [TS-520_820_530_830] TS-520 IOTA success!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-29 09:27:41 UTC
From: Dave and Loraine
Topic: 21901 Message: 21929

Hi Gordon,
I have no record of QSO and I'd remember a 520.
Cheers
Dave

21930. Trio TS-510

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-29 11:18:38 UTC
From: Klas Göran Fält
Topic: 21930 Message: 21930

Hi i have one ts 510 who don`t works in CW on transmission, anybody who have a tip whats wrong?

21931. Re:NEED KENWOOD DISCUSSION GROUP ADVICE (If Possible)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-29 17:27:01 UTC
From: John Hetherington
Topic: 21926 Message: 21931

Many Thanks for the info ;-)

73's John

VE3IZM

[Non-text portions of this message have been removed]

21932. Re: Trio TS-510

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-29 18:26:40 UTC
From: w5rkl
Topic: 21930 Message: 21932

Hello Klas,

When pressing on the CW key do you hear the CW sidetone? If not
then there are a couple of possibly problems.

1. Dirty switch contacts on the MODE switch

2. Dirty CW socket on the rear of the 510

3. CW sidetone oscillator is not working.

The CW sidetone is fed to the relay amplifier to place the 510 in
transmit while in CW mode. If the sidetone is not working there will
be no sidetone audio fed to the relay amplifier to activate the
relay in CW mode.

The CW sidetone is activated by the CW key being closed and a dirty
CW key socket on the rear of the 510 will also cause this problem.

Use contact cleaner to clean all of the MODE switch wafers.

Also use contact cleaner to clean the CW key socket on the rear of
the 510.

You can test how dirty the CW socket is by plugging a CW key into
the rear CW socket then press and hold the CW key closed in CW mode.
Move the CW key plug around while in the CW socket. If the 510
keys intermittently then the CW key socket is dirty. I had this
problem with my TS-820. Pressing the CW key did not produce a
sidetone and the relays did not energize. Moving the CW key plug
around in the CW socket cause intermittent keying. Cleaning the
CW socket on the rear of the 820 fixed the problem.

Try the cleaning steps first then let us know if that fixes your
problem?

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Klas Göran Fält <sm7lxw@...> wrote:
>
> Hi i have one ts 510 who don`t works in CW on transmission, anybody who have a tip whats
wrong?
>

21933. Re: Trio TS-510

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-29 18:32:08 UTC
From: w5rkl
Topic: 21930 Message: 21933

Another thing to check is the VOX GAIN control. If the VOX
gain control is not set properly and the CW sidetone is working,
there may not be sufficient audio fed from the VOX amplifier to
activate the relay amplifier. Clean and reset the VOX amplifier
gain control.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello Klas,
>
> When pressing on the CW key do you hear the CW sidetone? If not
> then there are a couple of possibly problems.
>
> 1. Dirty switch contacts on the MODE switch
>
> 2. Dirty CW socket on the rear of the 510
>
> 3. CW sidetone oscillator is not working.
>
> The CW sidetone is fed to the relay amplifier to place the 510 in
> transmit while in CW mode. If the sidetone is not working there will
> be no sidetone audio fed to the relay amplifier to activate the
> relay in CW mode.
>
> The CW sidetone is activated by the CW key being closed and a dirty
> CW key socket on the rear of the 510 will also cause this problem.
>
> Use contact cleaner to clean all of the MODE switch wafers.
>
> Also use contact cleaner to clean the CW key socket on the rear of
> the 510.
>
> You can test how dirty the CW socket is by plugging a CW key into
> the rear CW socket then press and hold the CW key closed in CW mode.
> Move the CW key plug around while in the CW socket. If the 510
> keys intermittently then the CW key socket is dirty. I had this
> problem with my TS-820. Pressing the CW key did not produce a
> sidetone and the relays did not energize. Moving the CW key plug
> around in the CW socket cause intermittent keying. Cleaning the
> CW socket on the rear of the 820 fixed the problem.
>
> Try the cleaning steps first then let us know if that fixes your
> problem?

>
> Mike W5RKL
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, Klas Göran Fält <sm7lxw@> wrote:
> >
> > Hi i have one ts 510 who don`t works in CW on transmission, anybody who have a tip whats wrong?
> >
>

21934. TS820 Frequency Display Problem but OK after warm up

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-29 22:20:52 UTC
From: bndphl
Topic: 21934 Message: 21934

Hi All,

I've got the usual flickering digits problem on the frequency display. I've cleaned the connectors and replaced all electrolytic capacitors but as before, the display will work for a short time after switch-on, then flicker away to itself for about 30 minutes then, after that it works fine. It doesn't appear to be a dirty bandswitch.

In all other respects the rig is fine and works very well actually, but I am intrigued what component my be at fault as it appears to be possibly heat related. Has anyone else found similar behaviour? Did you find a cure?

Thanks

Phil M0PBZ
Swindon UK

21935. TS520 & VFO520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-30 01:39:04 UTC
From: Rick
Topic: 21935 Message: 21935

I recently purchased a TS520 and a VFO520.

When I first hooked the VFO up the dial lamp came on but the VFO would not operate properly.

I checked the cable and someone had two wires on the same pins on eash end of the cable. So I removed the wire, checked the schematic and wired the plug accordingly.

Now the VFO operates properly. Or so it appears. However when I turn the rig on the VFO dial lamp comes on, even with the VFO in the off position. Is this normal?

So the next thing I did was take the VFO Plug that allows the rig to operate without the VFO being plugged in. The manual shows a jumper wire between pins 8 and 9. So I solder a jumper across those two pins. Unplugged the VFO, plugged in the single VFO plug but the rig would not receive.

Any suggestions for both questions?

Thanks in advance.
73, Rick VE3FMC

21936. Stolen Radios

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-30 04:12:36 UTC
From: AllanKB5DOH
Topic: 21936 Message: 21936

Hi, On July 25th 2009 at the Ham Holiday event the following radios were stole when buying any radios check the serial numbers see list below.
Thanks
Allan = kb5doh

The following equipment was stolen from a commercial vendors table at the recent Ham Holiday event in OKC.

Yaesu FT-450AT s/n 8L220116

Yaesu FT-8800R s/n 0504024

Additionally a used Kenwood TM-7950 2 Meter transceiver was taken from a flea market table.

The Oklahoma City Police should be informed if you gain any information on this equipment referencing police report 09-62313.

Thank you

[Non-text portions of this message have been removed]

21937. Re: TS520 & VFO520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-30 14:08:40 UTC
From: w5rkl
Topic: 21935 Message: 21937

> When I first hooked the VFO up the dial lamp came on but the VFO
> would not operate properly.
>
> I checked the cable and someone had two wires on the same pins on
> each end of the cable. So I removed the wire, checked the schematic
> and wired the plug accordingly. Now the VFO operate properly. Or
> it appears.

Appears a previous owner improperly wired the remote VFO cable.

> However when I turn the rig on the VFO dial lamp comes on, even
> with the VFO in the off position. Is this normal?

Yes this is normal. The dial lamps will illuminate regardless of the
remote VFO's FUNCTION switch position with power applied to the 520.
VFO selection, whether it be internal or external or a combination
of both, are controlled by the remote VFO's FUNCTION switch with the
remote VFO plugged into the 520's rear VFO socket.

> So the next thing I did was take the VFO Plug that allows the rig
> to operate without the VFO being plugged in. The manual shows a
> jumper wire between pins 8 and 9. So I solder a jumper across those
> two pins. Unplugged the VFO, plugged in the single VFO plug but the
> rig would not receive.

If the VFO plug you used is the original factory plug, the plug
should already have a jumper between pins 8 and 9. Looking at the
socket from the outside rear panel, which pins did you jumper?

The remote VFO pins on the socket AND plug (plug inserted into the
socket) are numbered counter clockwise starting with pin 1 on the
lower "right", continuing around the socket AND plug to pin 9 on the
lower "left". The separation at the bottom of the socket is between
pins 1 and 9.

Mike W5RKL

21938. Re: TS820 Frequency Display Problem but OK after warm up

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-30 15:10:32 UTC
From: w5rkl
Topic: 21934 Message: 21938

Hello Phil,

If the erratic digital display does not affect the stability of the VFO when tuned then the problem most likely is caused by dirty contacts on the top, bottom, and possibly the internal Counter Unit assembly pin contacts.

The 5V-AVR Unit, mounted just to the rear of the Counter Unit, also may have dirty contacts on the pins and plug. The 5V-AVR Unit provides a regulated 5VDC to the Counter Unit through the bottom connection, accessed at the bottom of the Counter Unit.

Always remove the power cable from the wall outlet BEFORE attempting any cleaning of plugs, pins, etc. Never perform any cleaning while power is applied or the power cable is plugged into the wall outlet!

Clean the top and bottom Counter Unit and 5V-AVR pins and plugs with contact cleaner by applying a small mount of contact cleaner to the pins then insert and remove the plugs a few times. Use canned air to remove excess contact cleaner then wait 3 to 5 minutes before applying power. Contact cleaner is flammable and it only takes a small spark to ignite it.

If this fixes the problem, there is no need to go any further. However, if the problem still exists then I recommend removing the Counter Unit and cleaning the internal pins inside the Counter Unit.

To clean the internal pins inside the Counter Unit, remove both plugs, top, bottom, and the 5V-AVR plug from the 5V-AVR Unit.

Loosen the Counter Unit mounting screws and gently lift the Counter Unit from the 820.

Remove the outer metal covers from the Counter Unit. With the outer metal covers removed you will see 2 PC boards. One will be labeled "X54-1150-00" and the other labeled "X54-1160-00". The "X54-1150-00" will have an "edge" type connector, not pins. Some have used an eraser to clean the edge connector. I do not recommend this since using an eraser does NOT clean the edge connector "plug" pins that make contact to the "edge" connector. A clean "edge" connector is fine edge "plug" pins will still be dirty/corroded and possibly may not make good contact when inserted onto the edge connector.

Remove the mounting screws from "one" PC board at a time. Remove the PC board and give the pins a shot of contact cleaner. Gently insert and remove the PC board a few times. This provides a "scrubbing" type cleaning action to take place on both the pins and socket.

Insert the board into the pins, ensuring it sits flat onto the mounting holes then install and tighten the mounting screws. Do NOT over tighten the mounting screws.

Do the same with the other PC board then reinstall the Counter Unit into the 820 and insert all plugs including the 5V-AVR plug.

Again, use canned air to remove excess contact cleaner, wait 3 to 5 minutes before applying power. As I stated above, contact cleaner is flammable and it only takes a small spark to ignite it.

Power up the 820 to see if the problem is fixed.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "bndphl" <philip@...> wrote:
>
> Hi All,
>
> I've got the usual flickering digits problem on the frequency display. I've cleaned the connectors and replaced all electrolytic capacitors but as before, the display will work for a short time after switch-on, then flicker away to itself for about 30 minutes then, after that it works fine. It doesn't appear to be a dirty bandswitch.
>
> In all other respects the rig is fine and works very well actually, but I am intrigued what component my be at fault as it appears to be possibly heat related. Has anyone else found similar behaviour? Did you find a cure?
>
> Thanks
>
> Phil M0PBZ
> Swindon UK
>

21939. Re: TS520 & VFO520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-30 15:07:29 UTC
From: Rick
Topic: 21935 Message: 21939

Thanks for the reply Mike.

I wondered about that VFO lamp being on constantly.

I have the other plug operating properly now. When I originally soldered it there was a cold solder joint. Redid it this morning and all is well now. Rig operates with or without the VFO plugged in.

Now all I need to find is the matching AT-200 tuner.
Again Thanks for the info on the external VFO.
73, Rick VE3FMC

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
>
> > When I first hooked the VFO up the dial lamp came on but the VFO
> > would not operate properly.
> >
> > I checked the cable and someone had two wires on the same pins on
> > each end of the cable. So I removed the wire, checked the schematic
> > and wired the plug accordingly. Now the VFO operate properly. Or
> > it appears.
>
>
>
> Appears a previous owner improperly wired the remote VFO cable.
>
>
>
> > However when I turn the rig on the VFO dial lamp comes on, even
> > with the VFO in the off position. Is this normal?
>
>
> Yes this is normal. The dial lamps will illuminate regardless of the
> remote VFO's FUNCTION switch position with power applied to the 520.
> VFO selection, whether it be internal or external or a combination
> of both, are controlled by the remote VFO's FUNCTION switch with the
> remote VFO plugged into the 520's rear VFO socket.
>
>
> > So the next thing I did was take the VFO Plug that allows the rig
> > to operate without the VFO being plugged in. The manual shows a
> > jumper wire between pins 8 and 9. So I solder a jumper across those
> > two pins. Unplugged the VFO, plugged in the single VFO plug but the
> > rig would not receive.
>

>
>
> If the VFO plug you used is the original factory plug, the plug
> should already have a jumper between pins 8 and 9. Looking at the
> socket from the outside rear panel, which pins did you jumper?
>
> The remote VFO pins on the socket AND plug (plug inserted into the
> socket) are numbered counter clockwise starting with pin 1 on the
> lower "right", continuing around the socket AND plug to pin 9 on the
> lower "left". The separation at the bottom of the socket is between
> pins 1 and 9.
>
>
> Mike W5RKL
>

21940. Re: [TS-520_820_530_830] Stolen Radios

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-30 14:09:21 UTC
From: Bob Singer
Topic: 21936 Message: 21940

Keep the numbers and check Ebay about every week. Bob

AllanKB5DOH wrote:
>
>
> Hi, On July 25th 2009 at the Ham Holiday event the following radios were
> stole when buying any radios check the serial numbers see list below.
> Thanks
> Allan = kb5doh
>
> The following equipment was stolen from a commercial vendors table at
> the recent Ham Holiday event in OKC.
>
> Yaesu FT-450AT s/n 8L220116
>
> Yaesu FT-8800R s/n 0504024
>
> Additionally a used Kenwood TM-7950 2 Meter transceiver was taken from
> a flea market table.
>
> The Oklahoma City Police should be informed if you gain any information
> on this equipment referencing police report 09-62313.
>
> Thank you
>
> [Non-text portions of this message have been removed]
>
>

21941. Re: TS520 & VFO520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-30 18:46:05 UTC
From: w5rkl
Topic: 21935 Message: 21941

You're welcome Rick.

Your initial posting stated you installed a jumper in the plug.
That prompted me to comment about the plug's factory jumper
and the question asking which pins your jumper connected to.

The plug should have only one jumper and that jumper is between
pins 8 and 9. There should be NO other jumpers in the plug!

Use caution when soldering wires to the pins as the plastic easily
melts at high temperatures. In a pinch, a short piece of wire between
pins 8 and 9 on the rear of the 520 can substitute for the plug.
Again, no other jumpers are to be inserted into the rear VFO socket
when the remote VFO is not plugged into the 520.

The VFO cable is wired as a "straight through" cable. That means
pin 1 on one end connects to pin 1 on the other end. There are NO
cross over pin connections in the VFO cable!

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Rick" <ve3fmc@...> wrote:
>
>
>
> Thanks for the reply Mike.
>
> I wondered about that VFO lamp being on constantly.
>
> I have the other plug operating properly now. When I originally soldered it there was a cold solder joint. Redid it this morning and all is well now. Rig operates with or without the VFO plugged in.
>
> Now all I need to find is the matching AT-200 tuner.
> Again Thanks for the info on the external VFO.
> 73, Rick VE3FMC
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> >
> > > When I first hooked the VFO up the dial lamp came on but the VFO
> > > would not operate properly.
> > >
> > > I checked the cable and someone had two wires on the same pins on
> > > each end of the cable. So I removed the wire, checked the schematic
> > > and wired the plug accordingly. Now the VFO operate properly. Or

> > > it appears.
> >
> >
> >
> > Appears a previous owner improperly wired the remote VFO cable.
> >
> >
> >
> > > However when I turn the rig on the VFO dial lamp comes on, even
> > > with the VFO in the off position. Is this normal?
> >
> >
> > Yes this is normal. The dial lamps will illuminate regardless of the
> > remote VFO's FUNCTION switch position with power applied to the 520.
> > VFO selection, whether it be internal or external or a combination
> > of both, are controlled by the remote VFO's FUNCTION switch with the
> > remote VFO plugged into the 520's rear VFO socket.
> >
> >
> > > So the next thing I did was take the VFO Plug that allows the rig
> > > to operate without the VFO being plugged in. The manual shows a
> > > jumper wire between pins 8 and 9. So I solder a jumper across those
> > > two pins. Unplugged the VFO, plugged in the single VFO plug but the
> > > rig would not receive.
> >
> >
> >
> > If the VFO plug you used is the original factory plug, the plug
> > should already have a jumper between pins 8 and 9. Looking at the
> > socket from the outside rear panel, which pins did you jumper?
> >
> > The remote VFO pins on the socket AND plug (plug inserted into the
> > socket) are numbered counter clockwise starting with pin 1 on the
> > lower "right", continuing around the socket AND plug to pin 9 on the
> > lower "left". The separation at the bottom of the socket is between
> > pins 1 and 9.
> >
> >
> > Mike W5RKL
> >
>

21942. Re: [TS-520_820_530_830] Trio TS-510

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-30 19:48:19 UTC
From: Dave ve3wej
Topic: 21930 Message: 21942

vox not on???

key broken???

try on another rig (key that is)

----- Original Message -----
From: "Klas G?ran F?lt" <sm7lxw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, July 29, 2009 7:18 AM
Subject: [TS-520_820_530_830] Trio TS-510

> Hi i have one ts 510 who don`t works in CW on transmission, anybody who
> have a tip whats wrong?
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
>

21943. AT-250 Manual

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-30 20:31:42 UTC
From: Gordon
Topic: 21943 Message: 21943

I am looking for a complete AT-250 Manual to put on my website. The one I have now appears to not be complete.
Anyone have one they can upload to me?
Thanks,
Gordon
N6WK

21944. TS-520S no transmitt

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-30 20:39:49 UTC
From: Bob Singer
Topic: 21944 Message: 21944

My TS-520S will not transmit. I finally got the parts to fix the Vox board so that when you press the PTT switch on the mic or go to send on the front switch, it would kill the receive and click the two relays(didn't before). After replacing Q8, D8 and R16 on the Vox board, I thought I would ohm check the RL line from the Vox board. It checked shorted so I traced the white/purple line and found that some one before me had taken off the AF board, or at least unscrewed one of the screws, and when they replaced one of the screws, they tightened it down on the white/purple RL wire that goes from the RL pin on the AF board to the RL pin on the Generator board shorting it. I fixed that, rechecked all my connections and turned the radio on. Good audio and no smoke this time. I put the mode switch on to CW running the output of the radio into my dummy load and put the front panel switch into the send mode. The audio stopped but no output on my watt meter. I took the shield off of relay RL1 and did it again and it was working. Measured the voltage at relay RL2 when I flipped the send switch and got the 13v that is supposed to be there and it was working also. I thought I would check the plate idling current so I switched the front meter switch to IP and put the send switch up. I noticed the needle was at the 100 mark before and it stayed there in the send mode. switching the meter selector to any mode made no difference with maybe just a slight movement. The next item on the service manual flow chart is check S5 and then VC2. Can any help me out with where they are? Can any one lead me where to go next? All the plugs/switches in the back are where they are supposed to be and I took the shield off the finals and they are lighting up (yes the heater switch was on when I tried it).
Bob in Missouri

21945. Re: [TS-520_820_530_830] AT-250 Manual

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-30 22:08:49 UTC
From: Hector (Luigi) Perez
Topic: 21943 Message: 21945

Gordon, try Vintage Manuals, they have almost everything from owners manuals to service manuals

Hector NP4FW

--- On Thu, 7/30/09, Gordon <n6wk@...> wrote:

From: Gordon <n6wk@...>
Subject: [TS-520_820_530_830] AT-250 Manual
To: TS-520_820_530_830@yahoogroups.com
Date: Thursday, July 30, 2009, 5:31 PM

I am looking for a complete AT-250 Manual to put on my website. The one I have now appears to not be complete.
Anyone have one they can upload to me?
Thanks,
Gordon
N6WK

[Non-text portions of this message have been removed]

21946. Re: [TS-520_820_530_830] AT-250 Manual

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-30 23:34:39 UTC
From: Dave ve3wej
Topic: 21943 Message: 21946

I have a pdf (pages), I can send it to you if you email me direct, and
then you can see if it is complete

also have the service manual

----- Original Message -----
From: "Gordon" <n6wk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, July 30, 2009 4:31 PM
Subject: [TS-520_820_530_830] AT-250 Manual

>I am looking for a complete AT-250 Manual to put on my website. The one I
>have now appears to not be complete.
> Anyone have one they can upload to me?
> Thanks,
> Gordon
> N6WK
>
>
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
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>
>

21947. Re: TS520 & VFO520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-31 01:50:05 UTC
From: Rick
Topic: 21935 Message: 21947

Thanks Mike. It is fine now, working like a champ without the VFO. This is the 3rd Kenwood hybrid I have owned and I wish I had kept the others!

Now I have to look for a TS830S.

73, Rick VE3FMC

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> You're welcome Rick.
>
> Your initial posting stated you installed a jumper in the plug.
> That prompted me to comment about the plug's factory jumper
> and the question asking which pins your jumper connected to.
>
> The plug should have only one jumper and that jumper is between
> pins 8 and 9. There should be NO other jumpers in the plug!
>
> Use caution when soldering wires to the pins as the plastic easily
> melts at high temperatures. In a pinch, a short piece of wire between
> pins 8 and 9 on the rear of the 520 can substitute for the plug.
> Again, no other jumpers are to be inserted into the rear VFO socket
> when the remote VFO is not plugged into the 520.
>
> The VFO cable is wired as a "straight through" cable. That means
> pin 1 on one end connects to pin 1 on the other end. There are NO
> cross over pin connections in the VFO cable!
>
> Mike W5RKL
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Rick" <ve3fmc@> wrote:
> >
> >
> >
> > Thanks for the reply Mike.
> >
> > I wondered about that VFO lamp being on constantly.
> >
> > I have the other plug operating properly now. When I originally soldered it there was a cold solder joint. Redid it this morning and all is well now. Rig operates with or without the VFO plugged in.
> >
> > Now all I need to find is the matching AT-200 tuner.
> > Again Thanks for the info on the external VFO.

> > 73, Rick VE3FMC
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > >
> > >
> > > > When I first hooked the VFO up the dial lamp came on but the VFO
> > > > would not operate properly.
> > > >
> > > > I checked the cable and someone had two wires on the same pins on
> > > > each end of the cable. So I removed the wire, checked the schematic
> > > > and wired the plug accordingly. Now the VFO operate properly. Or
> > > > it appears.
> > >
> > >
> > >
> > > Appears a previous owner improperly wired the remote VFO cable.
> > >
> > >
> > >
> > > > However when I turn the rig on the VFO dial lamp comes on, even
> > > > with the VFO in the off position. Is this normal?
> > >
> > >
> > > Yes this is normal. The dial lamps will illuminate regardless of the
> > > remote VFO's FUNCTION switch position with power applied to the 520.
> > > VFO selection, whether it be internal or external or a combination
> > > of both, are controlled by the remote VFO's FUNCTION switch with the
> > > remote VFO plugged into the 520's rear VFO socket.
> > >
> > >
> > > > So the next thing I did was take the VFO Plug that allows the rig
> > > > to operate without the VFO being plugged in. The manual shows a
> > > > jumper wire between pins 8 and 9. So I solder a jumper across those
> > > > two pins. Unplugged the VFO, plugged in the single VFO plug but the
> > > > rig would not receive.
> > >
> > >
> > >
> > > If the VFO plug you used is the original factory plug, the plug
> > > should already have a jumper between pins 8 and 9. Looking at the
> > > socket from the outside rear panel, which pins did you jumper?
> > >
> > > The remote VFO pins on the socket AND plug (plug inserted into the
> > > socket) are numbered counter clockwise starting with pin 1 on the
> > > lower "right", continuing around the socket AND plug to pin 9 on the
> > > lower "left". The separation at the bottom of the socket is between
> > > pins 1 and 9.
> > >
> > >
> > > Mike W5RKL

> > >
> >
>

21948. Re: TS-520S no transmitt

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-31 12:50:10 UTC
From: w5rkl
Topic: 21944 Message: 21948

"The next item on the service manual flow chart is check S5 and then VC2. Can any help me out with where they are?"

First, VC1 is the single section variable PLATE capacitor and VC2 is the multiple section (3 sections) variable LOAD capacitor. Both capacitors are located inside the final amplifier section.

S5, as a whole, is the band switch. Band switch wafer segments S5-1, S5-2, S5-3, and S5-4, however, are located inside the final amplifier. These 4 wafer switches control the following actions depending on the position of the band switch:

1. Control which turns on the PI Network coil are used (Adds or removes a short across unused coil turns)

2. Adds or removes parallel connections to sections of the variable LOAD capacitor VC2 and at the same time add or remove parallel connections to fixed capacitors C3, C4, C5, C6, C7, C8, C9, C10, and C101.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Bob Singer <aztrooper@...> wrote:
>
> My TS-520S will not transmit. I finally got the parts to fix the Vox
> board so that when you press the PTT switch on the mic or go to send on
> the front switch, it would kill the receive and click the two
> relays(didn't before). After replacing Q8, D8 and R16 on the Vox board,
> I thought I would ohm check the RL line from the Vox board. It checked
> shorted so I traced the white/purple line and found that some one before
> me had taken off the AF board, or at least unscrewed one of the screws,
> and when they replaced one of the screws, they tightened it down on the
> white/purple RL wire that goes from the RL pin on the AF board to the RL
> pin on the Generator board shorting it. I fixed that, rechecked all my
> connections and turned the radio on. Good audio and no smoke this
> time. I put the mode switch on to CW running the output of the radio
> into my dummy load and put the front panel switch into the send mode.
> The audio stopped but no output on my watt meter. I took the shield off
> of relay RL1 and did it again and it was working. Measured the voltage
> at relay RL2 when I flipped the send switch and got the 13v that is
> supposed to be there and it was working also. I thought I would check
> the plate idling current so I switched the front meter switch to IP and
> put the send switch up. I noticed the needle was at the 100 mark before
> and it stayed there in the send mode. switching the meter selector to
> any mode made no difference with maybe just a slight movement. The next
> item on the service manual flow chart is check S5 and then VC2. Can any

> help me out with where they are? Can any one lead me where to go next?
> All the plugs/switches in the back are where they are supposed to be and
> I took the shield off the finals and they are lighting up (yes the
> heater switch was on when I tried it).
> Bob in Missouri
>

21949. Re: Trio TS-510

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-31 08:50:32 UTC
From: sm7lxw@hotmail.com
Topic: 21930 Message: 21949

Hi i have try too cleaning all switch but no result.
I have the sidtone this working fine but the relay dont swith.

73 Dè SM7LXW
Klas

[Non-text portions of this message have been removed]

21950. Re: [TS-520_820_530_830] Re: TS-520S no transmitt

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-31 14:11:57 UTC
From: Bob Singer
Topic: 21944 Message: 21950

Thanks Mike. So where should I go next? Is there some test points or
? I think I will also try to find some place to have the driver and
final tubes tested.
Bob

w5rkl wrote:
>
>
> "The next item on the service manual flow chart is check S5 and then
> VC2. Can any help me out with where they are?"
>
> First, VC1 is the single section variable PLATE capacitor and VC2 is
> the multiple section (3 sections) variable LOAD capacitor. Both
> capacitors are located inside the final amplifier section.
>
> S5, as a whole, is the band switch. Band switch wafer segments S5-1,
> S5-2, S5-3, and S5-4, however, are located inside the final
> amplifier. These 4 wafer switches control the following actions
> depending on the position of the band switch:
>
> 1. Control which turns on the PI Network coil are used (Adds or
> removes a short across unused coil turns)
>
> 2. Adds or removes parallel connections to sections of the variable
> LOAD capacitor VC2 and at the same time add or remove parallel
> connections to fixed capacitors C3, C4, C5, C6, C7, C8, C9, C10, and
> C101.
>
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, Bob Singer
> <aztrooper@...> wrote:
> >
> > My TS-520S will not transmit. I finally got the parts to fix the Vox
> > board so that when you press the PTT switch on the mic or go to send on
> > the front switch, it would kill the receive and click the two
> > relays(didn't before). After replacing Q8, D8 and R16 on the Vox board,
> > I thought I would ohm check the RL line from the Vox board. It checked
> > shorted so I traced the white/purple line and found that some one
> before
> > me had taken off the AF board, or at least unscrewed one of the screws,
> > and when they replaced one of the screws, they tightened it down on the
> > white/purple RL wire that goes from the RL pin on the AF board to
> the RL

> > pin on the Generator board shorting it. I fixed that, rechecked all my
> > connections and turned the radio on. Good audio and no smoke this
> > time. I put the mode switch on to CW running the output of the radio
> > into my dummy load and put the front panel switch into the send mode.
> > The audio stopped but no output on my watt meter. I took the shield off
> > of relay RL1 and did it again and it was working. Measured the voltage
> > at relay RL2 when I flipped the send switch and got the 13v that is
> > supposed to be there and it was working also. I thought I would check
> > the plate idling current so I switched the front meter switch to IP and
> > put the send switch up. I noticed the needle was at the 100 mark before
> > and it stayed there in the send mode. switching the meter selector to
> > any mode made no difference with maybe just a slight movement. The next
> > item on the service manual flow chart is check S5 and then VC2. Can any
> > help me out with where they are? Can any one lead me where to go next?
> > All the plugs/switches in the back are where they are supposed to be
> and
> > I took the shield off the finals and they are lighting up (yes the
> > heater switch was on when I tried it).
> > Bob in Missouri
> >
>
>

21951. Re: TS-520S no transmitt

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-31 19:06:12 UTC
From: w5rkl
Topic: 21944 Message: 21951

Hello Bob,

Although I said earlier-on, the coupler in the final cage may not be the source of the problem, after reading your responses I recommend checking each switch wafer, S5-1 thru S5-4, in the final cage to be sure they align properly on each band. If the wafers do not align properly, the final amplifier will not resonate on any band. IP dips using the PLATE control will be way off or no-existent, and RF output will be zero or very low.

A wafer that does not align exactly right can cause a capacitor be placed into the circuit, a coil turns in the PI network tank, or both, to be in the circuit when they shouldn't be. Some wafer switches have very little "wiggle" room so make sure the wafers are aligning properly on each band.

Some wafer switch can wear down due from usage over time which can result in an open circuit even if the wafer aligns properly. I have seen this happen in the some FUNCTION switch wafers so check continuity through the wafer switches to be sure there is no opens.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Bob Singer <aztrooper@...> wrote:
>
> Thanks Mike. So where should I go next? Is there some test points or
> ? I think I will also try to find some place to have the driver and
> final tubes tested.
> Bob
>
> w5rkl wrote:
> >
> >
> > "The next item on the service manual flow chart is check S5 and then
> > VC2. Can any help me out with where they are?"
> >
> > First, VC1 is the single section variable PLATE capacitor and VC2 is
> > the multiple section (3 sections) variable LOAD capacitor. Both
> > capacitors are located inside the final amplifier section.
> >
> > S5, as a whole, is the band switch. Band switch wafer segments S5-1,
> > S5-2, S5-3, and S5-4, however, are located inside the final
> > amplifier. These 4 wafer switches control the following actions
> > depending on the position of the band switch:
> >
> > 1. Control which turns on the PI Network coil are used (Adds or

> > removes a short across unused coil turns)
> >
> > 2. Adds or removes parallel connections to sections of the variable
> > LOAD capacitor VC2 and at the same time add or remove parallel
> > connections to fixed capacitors C3, C4, C5, C6, C7, C8, C9, C10, and
> > C101.
> >
> > Mike W5RKL
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, Bob Singer
> > <aztrooper@> wrote:
> > >
> > > My TS-520S will not transmit. I finally got the parts to fix the Vox
> > > board so that when you press the PTT switch on the mic or go to send on
> > > the front switch, it would kill the receive and click the two
> > > relays(didn't before). After replacing Q8, D8 and R16 on the Vox board,
> > > I thought I would ohm check the RL line from the Vox board. It checked
> > > shorted so I traced the white/purple line and found that some one
> > before
> > > me had taken off the AF board, or at least unscrewed one of the screws,
> > > and when they replaced one of the screws, they tightened it down on the
> > > white/purple RL wire that goes from the RL pin on the AF board to
> > the RL
> > > pin on the Generator board shorting it. I fixed that, rechecked all my
> > > connections and turned the radio on. Good audio and no smoke this
> > > time. I put the mode switch on to CW running the output of the radio
> > > into my dummy load and put the front panel switch into the send mode.
> > > The audio stopped but no output on my watt meter. I took the shield off
> > > of relay RL1 and did it again and it was working. Measured the voltage
> > > at relay RL2 when I flipped the send switch and got the 13v that is
> > > supposed to be there and it was working also. I thought I would check
> > > the plate idling current so I switched the front meter switch to IP and
> > > put the send switch up. I noticed the needle was at the 100 mark before
> > > and it stayed there in the send mode. switching the meter selector to
> > > any mode made no difference with maybe just a slight movement. The next
> > > item on the service manual flow chart is check S5 and then VC2. Can any
> > > help me out with where they are? Can any one lead me where to go next?
> > > All the plugs/switches in the back are where they are supposed to be
> > and
> > > I took the shield off the finals and they are lighting up (yes the
> > > heater switch was on when I tried it).
> > > Bob in Missouri
> > >
> >
> >
> >

21952. Re: Trio TS-510

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-07-31 20:08:21 UTC
From: w5rkl
Topic: 21930 Message: 21952

Hello Klas,

First, check the VOX GAIN control. It may be set too low.

Check for sidetone at pin 2 of V603. The mode switch must be in
CW mode, a CW key plugged into the rear CW socket, and the CW
key must be pressed to check for sidetone at pin 2 of V603.

If sidetone is not present at pin 2 of V603, check capacitor C619
(.01ufd disc capacitor) and R11, 1 meg resistor. If either component
is open, sidetone will not be applied to pin 2 of VOX AMPLIFIER
V603 which will prevent RELAY AMPLIFIER V302 from conducting.

Also check neon bulb, NE-601. When sidetone audio is present
at pin 6 of V603 and one side of NE-601, a change in grid voltage
on pin 2 of V302 occurs causing V302 to conduct, energizing relays
RL-1 and RL-2. If NE-601 is bad, even with sidetone audio present
at pin 6 of V603, the grid voltage at pin 2 of V302 will not change
resulting in V302 not conducting and relays RL-1 and RL-2 will not
energize.

Check VOX AMPLIFIER tubes V302 and RELAY AMPLIFIER V603. Replace any
weak tubes.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, <sm7lxw@...> wrote:
>
> Hi i have try too cleaning all switch but no result.
> I have the sidtone this working fine but the relay dont swith.
>
>
> 73 Dè SM7LXW
> Klas
>
>
>
> [Non-text portions of this message have been removed]
>

21953. FS: "Gordonized" TS-830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-02 14:45:35 UTC
From: Joe McGerald
Topic: 21953 Message: 21953

This weekend I had the opportunity to purchase a TS-850SAT and so I'm going to sell my pristine TS-830s. It has been "Gordonized". In other words it has been tuned, cleaned and aligned by Gordon Benjamin. He also just replaced the HV capacitors in this rig and it works flawlessly. Cosmetically it's a 9+ with a few small marks on the top.

I am selling it complete with a matching MC-50 microphone, original instruction manual and a copy of the service manual.

I am asking $525 plus $55 UPS Shipping in the U.S. I can accept PayPal, otherwise U.S. Postal money order. You can pick it up locally in San Diego to save the shipping. I will consider a partial trade. I am looking for an MC-60 for the TS-850, an antenna tuner such as the MFJ-962D that will handle at least 600 watts, a QRP rig, and some other misc. If you are interested I would suggest calling me. I will be listing it later today on QRZ.com and QTH.com and it probably won't last long!

Email or call (619)840-8736. Thanks.
73.
Joe
af6ni@...

21954. Re: TS-820S parts to go..!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-02 12:22:40 UTC
From: Bob
Topic: 21905 Message: 21954

Still have the freq counter unit? Also the main VFO knob. Shipping to 37745?

--- In TS-520_820_530_830@yahoogroups.com, "pissousky" <pissousky@...> wrote:
>
> Hello guys,I am not here as a business but I thought that someone might need parts for whatever repairs so I tought I would offer them to the group first...I have a TS-820S here that I used the power transformer for another radio...All the boards,af-avr-rf-if-pll-vox-rectifier-HV-rotary switches-ect.. so as coil pack with band switch,relays,display,meter,knobs,driver and finals,etc...are in great working order,tell me which part you need and I'll give you a price....thanks (email:erpi1182@...)
>

21955. A brand new Kenwood ts-830s gold edition for sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-03 10:04:12 UTC
From: wp3vv1
Topic: 21955 Message: 21955

I'll try to make the story short ☐ the original owner bought this radio in the 80's He used for like 20 hours and then re-packed and stored in a climate ☐controlled facility among other stuff like paintings, etc. He did an excellent job on packing this rig. When I received this rig at my house and unpacked, I just can't believe it ☐ this baby IS brand new.

As to why and how, I don't know neither I asked the original owner.

He has two of them, which I purchased both. I am keeping one and selling the other. I am asking $525.00 firm ☐ no trades. No warranty.

This sale is on a first come- first serve basis. I'll be out from August 10 to 20 2009.

You can contact me at wp3vv1@... or 787-564-2021

Thanks

PD: Here's a video - http://www.youtube.com/watch?v=WBDqrziOy_w

21956. Using power inverter on TS-530

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-03 13:28:26 UTC
From: hughesedwin@bellsouth.net
Topic: 21956 Message: 21956

Is it safe to use a modified sine wave power inverter to power a TS-530?

I have an 800 watt unit that I am sure would be adequate as far as capacity, but the inverter's literature indicates it is for resistive loads, not inductive loads. The other concern I have is the immediate power demand transmitting creates causing power drops and surges.

Anyone have any input or experience with this?

21957. Re: [TS-520_820_530_830] Re: TS-820S parts to go..!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-03 17:54:31 UTC
From: Les Zwiebel WB6ORZ
Topic: 21905 Message: 21957

I could use the relays, please. Please let me know the details. Thanks in advance.
(((((73)))))
Les
---===WB6ORZ===---

wb6orz at pacbell dot net

----- Original Message -----
From: Bob
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, August 02, 2009 5:22 AM
Subject: [TS-520_820_530_830] Re: TS-820S parts to go..!

Still have the freq counter unit? Also the main VFO knob. Shipping to 37745?

--- In TS-520_820_530_830@yahoogroups.com, "pissousky" <pissousky@...> wrote:
>
> Hello guys,I am not here as a business but I thought that someone might need parts for whatever repairs so I tought I would offer them to the group first...I have a TS-820S here that I used the power transformer for another radio...All the boards,af-avr-rf-if-pll-vox-rectifier-HV-rotary switches-ect.. so as coil pack with band switch,relays,display,meter,knobs,driver and finals,etc...are in great working order,tell me which part you need and I'll give you a price....thanks (email:erpi1182@...)
>

[Non-text portions of this message have been removed]

21958. VFO-230 wanted

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-03 18:49:21 UTC
From: jmathis7676
Topic: 21958 Message: 21958

Hello to all. Am looking for a working vfo-230. If you have one, please send me an email to this address: jmathis@...

Thanks and really enjoy the posts and help. jm wa5fac

21959. Re: [TS-520_820_530_830] Using power inverter on TS-530

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-03 18:34:55 UTC
From: Sulaiman Abdullah
Topic: 21956 Message: 21959

I haven't tried so this is theory only;
Although the TS-520 has a transformer input
it is mostly a resistive load, so should be no problem.

----- Original Message -----
From: hughesedwin@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, August 03, 2009 2:28 PM
Subject: [TS-520_820_530_830] Using power inverter on TS-530

Is it safe to use a modified sine wave power inverter to power a TS-530?

I have an 800 watt unit that I am sure would be adequate as far as capacity, but the inverter's literature indicates it is for resistive loads, not inductive loads. The other concern I have is the immediate power demand transmitting creates causing power drops and surges.

Anyone have any input or experience with this?

[Non-text portions of this message have been removed]

21960. Re: [TS-520_820_530_830] Using power inverter on TS-530

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-03 20:45:44 UTC
From: Gordon JC Pearce
Topic: 21956 Message: 21960

On Mon, 2009-08-03 at 19:34 +0100, Sulaiman Abdullah wrote:
> I haven't tried so this is theory only;
> Although the TS-520 has a transformer input
> it is mostly a resistive load, so should be no problem.

I have run equipment with variable loads and transformer-based power supplies from modified-sine inverters before with only a few minor problems. In particular, the inverter kicks out a lot of hash, which may be a problem on lower bands. Also, the "modified sine wave" has still got pretty square edges (hence the hash) and will break through as a buzz on audio. Perhaps some sort of mains filter would improve matters.

I haven't tried my TS-520 on a modified-sine inverter, but since I have both my TS-520 and such an inverter lying downstairs still not unpacked from IOTA I could give it a go. I wouldn't expect it to do any harm; it might just not work very well.

Gordon 2M0YEQ

21961. Looking for SP-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-03 22:52:38 UTC
From: Woody & Lisa Woodward
Topic: 21961 Message: 21961

Does anyone out there have an SP-520 speaker in reasonably good condition that they don't want an arm and a leg for?
Thanks,

73 de Woody K3VSA

21962. Re: Using power inverter on TS-530

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-03 23:27:51 UTC
From: james27613
Topic: 21956 Message: 21962

Hi,

What is the brand and model of the inverter,
most do not like inductive loads and will
have a lot of noise.

The main transformer on these radios is
expensive to replace if it fails.

Put it on a scope to see how clean it is.

I've used full sine wave UPS for field day and
also at my qth all the time no problems.

you can find APC brand Smart UPS fraction of
original cost at swapmeets or ebay, often without
the batteries, this can save you money on shipping.
The smartups series can be started without a/c
applied to the unit, great for power outages.

73 james ke4drn

21963. Re: [TS-520_820_530_830] Using power inverter on TS-530

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-04 02:16:34 UTC
From: John Davidson
Topic: 21956 Message: 21963

wouldn't it bemuch more efficient to use the AC power cord connection for the rig>?
MY TS520 has dual ppower capability and I*'m sure the 830 does also.

--- On Mon, 8/3/09, hughesedwin@... <hughesedwin@...t> wrote:

From: hughesedwin@... hughesedwin@...

Is it safe to use a modified sine wave power inverter to power a TS-530?

I Anyone have any input or experience with this?

[Non-text portions of this message have been removed]

21964. Re: [TS-520_820_530_830] Using power inverter on TS-530

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-04 06:44:11 UTC
From: Gordon JC Pearce
Topic: 21956 Message: 21964

On Mon, 2009-08-03 at 19:16 -0700, John Davidson wrote:
> wouldn't it bemuch more efficient to use the AC power cord connection for the rig>?
> MY TS520 has dual ppower capability and I*'m sure the 830 does also.

Not all of them have the built-in inverter fitted, and some of them no
longer work. There was a lengthy thread a while back about suitable
replacement transistors.

I've never tried the inverter in mine, because I don't have the correct
power lead.

Gordon 2M0YEQ

21965. Re: Using power inverter on TS-530

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-04 03:30:21 UTC
From: Frank VK5MFW
Topic: 21956 Message: 21965

I agree with K8JD, why would you bother!! Plug it into the wall and use the internal sipply...The whole reason for DC to DC supplies was to run Tube output radios mobile i.e. off 12volts...Sure it would work but I cant imagine why you would want to do it.. Cheers Frank VK5KV..

21966. Re : [TS-520_820_530_830] Re: TS-820S parts to go..!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-04 08:11:17 UTC
From: Eric P.
Topic: 21905 Message: 21966

Still have both,you can have them for $25.00 plus shipping..my email is: erpi1182@...

De : Les Zwiebel WB6ORZ <wb6orz@...>
À : TS-520_820_530_830@yahoogroups.com
Envoyé le : lundi 3 août 2009, 13 h 54 min 31 s
Objet : Re: [TS-520_820_530_830] Re: TS-820S parts to go..!

I could use the relays, please. Please let me know the details. Thanks in advance.
(((((73)))))
Les
---===WB6ORZ= ==---

wb6orz at pacbell dot net

----- Original Message -----
From: Bob
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Sunday, August 02, 2009 5:22 AM
Subject: [TS-520_820_ 530_830] Re: TS-820S parts to go..!

Still have the freq counter unit? Also the main VFO knob. Shipping to 37745?

--- In TS-520_820_530_ 830@yahoogroups. com, "pissousky" <pissousky@. ..> wrote:
>
> Hello guys,I am not here as a business but I thought that someone might need parts for whatever repairs so I tought I would offer them to the group first...I have a TS-820S here that I used the power transformer for another radio...All the boards,af-avr- rf-if-pll-vox-rectifier- HV-rotary switches-ect. . so as coil pack with band switch,relays, display,meter, knobs,driver and finals,etc.. .are in great working order,tell me which part you need and I'll give you a price....thanks (email:erpi1182@ ...)
>

[Non-text portions of this message have been removed]

Obtenez l'adresse de courriel parfaite: @... or @.... Obtenez votre nouvelle adresse maintenant à http://cf.new.mail.yahoo.com/addresses.

[Non-text portions of this message have been removed]

21967. TS820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-04 11:42:00 UTC
From: Harlan
Topic: 9983 Message: 21967

Does the 820 have a thermal control for the cooling fan? I am just getting started in ham, and seldom use the 820 for any lenght of time. The fan has yet to run at any time.
Thanks, Harlan, KJ4GXN

21968. Re : [TS-520_820_530_830] Re: TS-820S parts to go..!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-04 08:15:38 UTC
From: Eric P.
Topic: 21905 Message: 21968

counter unit is sold,got knobs but will sell as a package for $30.00 plus shipping,my email if interested erpi@... thanks

---
De : Bob <n4fv@shcircuit.com>
À : TS-520_820_530_830@yahoogroups.com
Envoyé le : dimanche 2 août 2009, 08 h 22 min 40 s
Objet : [TS-520_820_530_830] Re: TS-820S parts to go..!

Still have the freq counter unit? Also the main VFO knob. Shipping to 37745?

--- In TS-520_820_530_ 830@yahoogroups. com, "pissousky" <pissousky@. ..> wrote:
>
> Hello guys,I am not here as a business but I thought that someone might need parts for whatever repairs so I tought I would offer them to the group first...I have a TS-820S here that I used the power transformer for another radio...All the boards,af-avr- rf-if-pll-vox-rectifier- HV-rotary switches-ect. . so as coil pack with band switch,relays, display,meter, knobs,driver and finals,etc.. .are in great working order,tell me which part you need and I'll give you a price....thanks (email:erpi1182@ ...)
>

Offrez un compte Flickr Pro à vos amis et à votre famille.
http://www.flickr.com/gift/

[Non-text portions of this message have been removed]

21969. Re: [TS-520_820_530_830] Looking for SP-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-04 08:45:19 UTC
From: ken bolin
Topic: 21961 Message: 21969

Make that 2 being looked for.
Ken

--- On Mon, 8/3/09, Woody & Lisa Woodward <tastefuldemos@...> wrote:

From: Woody & Lisa Woodward <tastefuldemos@...>
Subject: [TS-520_820_530_830] Looking for SP-520
To: TS-520_820_530_830@yahoogroups.com
Date: Monday, August 3, 2009, 3:52 PM

Does anyone out there have an SP-520 speaker in reasonably good
condition that they don't want an arm and a leg for?
Thanks,

73 de Woody K3VSA

Yahoo! Groups Links

[Non-text portions of this message have been removed]

21970. Re: [TS-520_820_530_830] Using power inverter on TS-530

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-04 14:28:30 UTC
From: John Davidson
Topic: 21956 Message: 21970

OK, now I remember. All the standard equipment that is on my TS 520 became extra $ options on the 520 s and subsequent models like the 530 830 etc. one of those features was the dual 120 Vac/12VDC supply !!! One reason I got the Kenwood 520 over the Drake TR4CW was the standard equipment power supplies, the noise blanker and calibrator that were extra $ options on the Drake.

--- On Tue, 8/4/09, Gordon JC Pearce <gordon@...> wrote:

From: Gordon JC Pearce <gordon@...>
Subject: Re: [TS-520_820_530_830] Using power inverter on TS-530
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, August 4, 2009, 2:44 AM

On Mon, 2009-08-03 at 19:16 -0700, John Davidson wrote:
> wouldn't it bemuch more efficient to use the AC power cord connection for the rig>?
> MY TS520 has dual power capability and I*'m sure the 830 does also.

Not all of them have the built-in inverter fitted, and some of them no
longer work. There was a lengthy thread a while back about suitable
replacement transistors.

I've never tried the inverter in mine, because I don't have the correct
power lead.

Gordon 2M0YEQ

[Non-text portions of this message have been removed]

21971. Re: Using power inverter on TS-530

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-04 18:23:29 UTC
From: w5rkl
Topic: 21956 Message: 21971

The DC-DC converter was standard on the 520 but optional on the
520S, 520SE, and 820.

The TS-530 and TS-830 do not have a DC-DC converter option.

--- In TS-520_820_530_830@yahoogroups.com, John Davidson <k8jd@...> wrote:
>
> OK, now I remember. All the standard equipment that is on my TS 520 became extra $ options on the 520 s and subsequent models like the 530 830 etc. one of those features was the dual 120 Vac/12VDC supply !!! One reason I got the Kenwood 520 over the Drake TR4CW was the standard equipment power supplies, the noise blanker and calibrator that were extra $ options on the Drake.
>
> --- On Tue, 8/4/09, Gordon JC Pearce <gordon@...> wrote:
>
>
> From: Gordon JC Pearce <gordon@...>
> Subject: Re: [TS-520_820_530_830] Using power inverter on TS-530
> To: TS-520_820_530_830@...m
> Date: Tuesday, August 4, 2009, 2:44 AM
>
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>
> On Mon, 2009-08-03 at 19:16 -0700, John Davidson wrote:
> > wouldn't it bemuch more efficient to use the AC power cord connection for the rig>?
> > MY TS520 has dual power capability and I*'m sure the 830 does also.
>
> Not all of them have the built-in inverter fitted, and some of them no
> longer work. There was a lengthy thread a while back about suitable
> replacement transistors.
>
> I've never tried the inverter in mine, because I don't have the correct
> power lead.
>
> Gordon 2M0YEQ
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> [Non-text portions of this message have been removed]
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21972. Re: TS820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-04 18:26:39 UTC
From: w5rkl
Topic: 9983 Message: 21972

Harlan,

The answer is no. The 820 fan runs continuously when power is applied
to the 820.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Harlan" <hbloom@...> wrote:
>
> Does the 820 have a thermal control for the cooling fan? I am just getting started in ham, and seldom use the 820 for any lenght of time. The fan has yet to run at any time.
> Thanks, Harlan, KJ4GXN
>

21973. Re: [TS-520_820_530_830] Re: TS820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-04 18:35:43 UTC
From: harlan
Topic: 9983 Message: 21973

Thanks Mike
Is the fan on a separate fuse?

Harlan KJ4GXN

----- Original Message -----
From: w5rkl
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, August 04, 2009 2:26 PM
Subject: [TS-520_820_530_830] Re: TS820

Harlan,

The answer is no. The 820 fan runs continuously when power is applied
to the 820.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Harlan" <hbloom@...> wrote:
>
> Does the 820 have a thermal control for the cooling fan? I am just getting started in ham, and seldom use the 820 for any lenght of time. The fan has yet to run at any time.
> Thanks, Harlan, KJ4GXN
>

[Non-text portions of this message have been removed]

21974. Re: [TS-520_820_530_830] Re: Using power inverter on TS-530

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-04 19:16:05 UTC
From: martin
Topic: 21956 Message: 21974

Hi Guys. Perhaps he wants to run his station from solar/battery
power, or wants the option to run from 12V for emergency power.

Using an inverter is not very efficient, and maybe it would be a
better choice to use a solid state radio such as a TS-120S, or TS-130S
for such purposes, since they can run directly from 12V.

I have three HF radios here, a TS-530S, a TS-130SE, and a TS-430S,
plus a TM-261A 2M radio. I also have a 75 amp/hour deep cycle
battery. At present this batter is float charged with a 10 amp
supply, and is connected to the TM261A. I can easily connect it to the TS

TTYL-130SE or the TS-430S if I need to. However, I would not try to
run the TS-530S from the battery via an inverter. If I were to do
such a thing, I would only use an inverter that has a sinewave output,
not a "modified sinewave" output.

Just my $20.00 worth ($.02 adjusted for inflation!)

Frank VK5MFW wrote:
> I agree with K8JD, why would you bother!! Plug it into the wall and
> use the internal sipply...The whole reason for DC to DC supplies
> was to run Tube output radios mobile i.e. off 12volts...Sure it
> would work but I cant imagine why you would want to do it.. Cheers
> Frank VK5KV..
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

21975. dc to dc operation with the 830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-04 20:22:54 UTC
From: Michael Bellis
Topic: 21975 Message: 21975

yes, the 830s did have a 12v dc option. All of the units made for sale outside of the USA came with a differant main transformer and a space on the back panel to mount the 'DS-2 converter'. I own two of those radios, one that was purchased in Singapore and the other from Japan. I have never been able to find a DS-2, but the schematic is in the manual and some day I'll build one.

21976. PDF viewer

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-04 21:45:40 UTC
From: Lou Blasco
Topic: 21975 Message: 21976

Hi All,

Someone on this group mentioned a PDF viewer that rendered images
better than adobe. Could they please remind me of the product?

Thanks

Lou
VK3ALB

21977. Re: [TS-520_820_530_830] PDF viewer

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-04 22:05:59 UTC
From: n6wk@n6wk.com
Topic: 21975 Message: 21977

PDFXchange viewer

73,
Gordon

Lou Blasco wrote:
>
>
> Hi All,
>
> Someone on this group mentioned a PDF viewer that rendered images
> better than adobe. Could they please remind me of the product?
>
> Thanks
>
> Lou
> VK3ALB
>

21978. Re: [TS-520_820_530_830] PDF viewer

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-04 22:16:56 UTC
From: Lou Blasco
Topic: 21975 Message: 21978

Thanks Gordon

I'll download it now.

Lou

At 08:05 AM 05/08/2009, you wrote:
>PDFXchange viewer
>
>73,
>Gordon
>
>
>
>Lou Blasco wrote:
> >
> >
> > Hi All,
> >
> > Someone on this group mentioned a PDF viewer that rendered images
> > better than adobe. Could they please remind me of the product?
> >
> > Thanks
> >
> > Lou
> > VK3ALB
> >

21979. Re: dc to dc operation with the 830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-04 22:48:01 UTC
From: w5rkl
Topic: 21975 Message: 21979

I stand corrected! It appears the TS-830 (W model ONLY) does have an optional DS-2 DC option. The "W" model appears to have been only marketed outside the U.S. This could explain why the TS-830S operator's manual does not show the DC-2 as an optional accessory.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Michael Bellis" <theloneprospector@...> wrote:
>
> yes, the 830s did have a 12v dc option. All of the units made for sale outside of the USA came with a differant main transformer and a space on the back panel to mount the 'DS-2 converter'. I own two of those radios, one that was purchased in Singapore and the other from Japan. I have never been able to find a DS-2, but the schematic is in the manual and some day I'll build one.
>

21980. RIT acting up on TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-05 16:29:50 UTC
From: steveb84us
Topic: 21980 Message: 21980

I am posting this for a fellow TS-830S owner who is having trouble with his RIT control.

"I don't know if this is normal or not, but the RIT control seems to be acting up. When you first turn the radio on, and you press the switch, the red light comes on, and the knob seems to function normaly. But, after the radio is on for awhile, the frequency setting that you have made with the control will freeze up. I have turning off the RIT, and back on again, and it will still remain non functional, even with the red light on. If the radio is turned off for awhile, and then you turn it back on, then it will work."

If anyone has any ideas of how to solve this problem, please pass them along. Thanks in advance.

Steve - N9SB

21981. Re: [TS-520_820_530_830] Using power inverter on TS-530

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-05 19:12:42 UTC
From: Dave and Loraine
Topic: 21956 Message: 21981

Gordon,
When you try the inverter, please scope it to see what the inductive load does to the 'modified
sinewave'.
I've previously asked if someone could scope a Kenwood DC-DC inverter on load to get a visual
standard to work from re. cheapo inverters. Any takers?
Cheers
Dave f4eyk

21982. Re: [TS-520_820_530_830] RIT acting up on TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-05 19:50:15 UTC
From: Dave ve3wej
Topic: 21980 Message: 21982

try cleaning the switch, or checking the connections???? first

----- Original Message -----
From: "steveb84us" <steve6284@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, August 05, 2009 12:29 PM
Subject: [TS-520_820_530_830] RIT acting up on TS-830S

>I am posting this for a fellow TS-830S owner who is having trouble with his
>RIT control.
>
> "I don't know if this is normal or not, but the RIT control seems to be
> acting up. When you first turn the radio on, and you press the switch, the
> red light comes on, and the knob seems to function normaly. But, after the
> radio is on for awhile, the frequency setting that you have made with the
> control will freeze up. I have turning off the RIT, and back on again, and
> it will still remain non functional, even with the red light on. If the
> radio is turned off for awhile, and then you turn it back on, then it will
> work."
>
> If anyone has any ideas of how to solve this problem, please pass them
> along. Thanks in advance.
>
> Steve - N9SB
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> Yahoo! Groups Links
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21983. RE: [TS-520_820_530_830] RIT acting up on TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-05 20:05:51 UTC
From: Greg Anders
Topic: 21980 Message: 21983

Absolutely. It's a Kenwood. If I remember correctly the RIT switch assembly behind the front panel has a small pc board with a white multi-pin connector. Pull it off and reseat it a couple of times. Also push the switch in/out dozens of times to clean it.

Greg

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Dave ve3wej
Sent: Wednesday, August 05, 2009 12:50 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] RIT acting up on TS-830S

try cleaning the switch, or checking the connections???? first

----- Original Message -----
From: "steveb84us" <steve6284@...<mailto:steve6284%40comcast.net>>
To: <TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>>
Sent: Wednesday, August 05, 2009 12:29 PM
Subject: [TS-520_820_530_830] RIT acting up on TS-830S

>I am posting this for a fellow TS-830S owner who is having trouble with his
>RIT control.
>
> "I don't know if this is normal or not, but the RIT control seems to be
> acting up. When you first turn the radio on, and you press the switch, the
> red light comes on, and the knob seems to function normaly. But, after the
> radio is on for awhile, the frequency setting that you have made with the
> control will freeze up. I have turning off the RIT, and back on again, and
> it will still remain non functional, even with the red light on. If the
> radio is turned off for awhile, and then you turn it back on, then it will
> work."
>
> If anyone has any ideas of how to solve this problem, please pass them
> along. Thanks in advance.
>
> Steve - N9SB
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

21984. 830s drop in output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-05 19:57:40 UTC
From: va3slj
Topic: 21984 Message: 21984

Here's where I am so far:

I have a Kenwood 830s that has, up to now, been working well (100w out on most bands). When I powered up last week, I can only get about 30 watts. Here's what I've checked and noticed:

1) The bias read too low, and usually does not require adjusting. I adjusted it to show 60 ma as per manual.
2) the voltage setting only shows 400, which I believe should be closer to 800.
3) the SGA(?) switch was not inadvertantly shut of.
4) The heater is on.
5) other than low output, everything seems to work. I tried all bands.
6) I did try it with the heater switched "off," and received the exact same readings.

I am no technician, but I wonder if it could be
1) the finals gone soft?
2) a failure at the heater switch.

I haven't had it open yet, but I assume there must be some glow from the tubes to get the 30w. If I can check the continuity of the heater switch, is it advisable/feasible to bypass it so the heater is always on? I realize this will draw more power, but is there any other danger in doing this?

Otherwise, I'll be investing in new finals and a new 12BY7, and trying to neutralize them.

The shack is a bit humid, and I wonder if some corrosion might have damaged the switch.

73,
Scott Jacobsen
VA3SLJ

21985. Re: [TS-520_820_530_830] 830s drop in output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-05 20:57:14 UTC
From: Gordon JC Pearce
Topic: 21984 Message: 21985

On Wed, 2009-08-05 at 19:57 +0000, va3slj wrote:

> 2) the voltage setting only shows 400, which I believe should be closer to 800.

Fix this before anything else.

Gordon 2M0YEQ

21986. Re: [TS-520_820_530_830] 830s drop in output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-05 21:12:46 UTC
From: n6wk@n6wk.com
Topic: 21984 Message: 21986

Your HV caps have gone bad. You need to replace them.
Ken, K4EAA has replacement HV cap kits that are perfect.

73,
Gordon

va3slj wrote:
>
>
> Here's where I am so far:
>
> I have a Kenwood 830s that has, up to now, been working well (100w out
> on most bands). When I powered up last week, I can only get about 30
> watts. Here's what I've checked and noticed:
>
> 1) The bias read too low, and usually does not require adjusting. I
> adjusted it to show 60 ma as per manual.
> 2) the voltage setting only shows 400, which I believe should be
> closer to 800.
> 3) the SGA(?) switch was not inadvertantly shut of.
> 4) The heater is on.
> 5) other than low output, everything seems to work. I tried all bands.
> 6) I did try it with the heater switched "off," and received the exact
> same readings.
>
> I am no technician, but I wonder if it could be
> 1) the finals gone soft?
> 2) a failure at the heater switch.
>
> I haven't had it open yet, but I assume there must be some glow from
> the tubes to get the 30w. If I can check the continuity of the heater
> switch, is it advisable/feasible to bypass it so the heater is always
> on? I realize this will draw more power, but is there any other danger
> in doing this?
>
> Otherwise, I'll be investing in new finals and a new 12BY7, and trying
> to neutralize them.
>
> The shack is a bit humid, and I wonder if some corrosion might have
> damaged the switch.
>
> 73,
> Scott Jacobsen
> VA3SLJ
>

>

--
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21987. VFO

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-06 04:24:50 UTC
From: L Kendall
Topic: 21935 Message: 21987

Not being entirely familiar with the Kenwood external VFO selection, I would like to know which models are compatible with the TS-830S "Gold."

If the number is greater than one, and there is a choice to make, which models are good ones to consider, and why?

I currently have a Kenwood TS-830S "Gold" with a VFO 120. Nothing wrong with the VFO. And it works great.

See, the problem is I have 2 of the TS-830S. But only the one external VFO.

Not a bad problem to have, right? But to get another external VFO, I would first like to hear opinions on what works best.

While you're at it, I'd like to hear opinions on Kenwood external speakers.

Normally I use noise-cancelling headphones. But sometimes ya gotta show off that great audio this rig has.

Thanks,
Larry

[Non-text portions of this message have been removed]

21988. Re: [TS-520_820_530_830] VFO

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-06 07:17:17 UTC
From: pmarkavage
Topic: 21935 Message: 21988

VFO-240, analog VFO, and VFO-230, digital VFO with 5 memories, will work fine with the TS-830S gold, silver, brown, or blue. The differences between the VFO's should be obvious. Matching SP-230 speaker works great with the 830 but I've used an old Lafayette 3-way bookshelf speaker and it works great too. Nothing like listening to the rumble of static through a 12 inch woofer. It gets the heart pumping.

Pete, wa2cwa

On Wed, 05 Aug 2009 23:24:50 -0500 L Kendall <k5end@...> writes:
>
> Not being entirely familiar with the Kenwood external VFO selection,
> I
> would like to know which models are compatible with the TS-830S
> "Gold."
>
> If the number is greater than one, and there is a choice to make,
> which
> models are good ones to consider, and why?
>
> I currently have a Kenwood TS-830S "Gold" with a VFO 120. Nothing
> wrong
> with the VFO. And it works great.
>
> See, the problem is I have 2 of the TS-830S. But only the one
> external
> VFO.
>
> Not a bad problem to have, right? But to get another external VFO,
> I
> would first like to hear opinions on what works best.
>
> While you're at it, I'd like to hear opinions on Kenwood external
> speakers.
>
> Normally I use noise-cancelling headphones. But sometimes ya gotta
> show
> off that great audio this rig has.
>
> Thanks,
> Larry

21989. Re: [TS-520_820_530_830] VFO

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-06 11:40:00 UTC
From: steve
Topic: 21935 Message: 21989

The VFO-120 also works well. Similar to the 240 but smaller and cheaper.

Steve W4IMF

----- Original Message -----
From: pmarkavage
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, August 06, 2009 3:17 AM
Subject: Re: [TS-520_820_530_830] VFO

VFO-240, analog VFO, and VFO-230, digital VFO with 5 memories, will work fine with the TS-830S gold, silver, brown, or blue. The differences between the VFO's should be obvious. Matching SP-230 speaker works great with the 830 but I've used an old Lafayette 3-way bookshelf speaker and it works great too. Nothing like listening to the rumble of static through a 12 inch woofer. It gets the heart pumping.

Pete, wa2cwa

On Wed, 05 Aug 2009 23:24:50 -0500 L Kendall <k5end@...> writes:
>
> Not being entirely familiar with the Kenwood external VFO selection,
> I
> would like to know which models are compatible with the TS-830S
> "Gold."
>
> If the number is greater than one, and there is a choice to make,
> which
> models are good ones to consider, and why?
>
> I currently have a Kenwood TS-830S "Gold" with a VFO 120. Nothing
> wrong
> with the VFO. And it works great.
>
> See, the problem is I have 2 of the TS-830S. But only the one
> external
> VFO.
>
> Not a bad problem to have, right? But to get another external VFO,
> I
> would first like to hear opinions on what works best.
>
> While you're at it, I'd like to hear opinions on Kenwood external
> speakers.
>
> Normally I use noise-cancelling headphones. But sometimes ya gotta

> show
> off that great audio this rig has.
>
> Thanks,
> Larry

Certified Virus Free
Checked by AVG - www.avg.com
Version: 8.5.392 / Virus Database: 270.13.45/2285 - Release Date: 08/06/09 05:57:00

[Non-text portions of this message have been removed]

21990. RE: [TS-520_820_530_830] VFO

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-06 12:22:49 UTC
From: L K
Topic: 21935 Message: 21990

Thanks, Pete.

I don't know why this did not occur to me before, but their are a bunch of guitar amp speakers up to 15" mounted into cabs around here. The freq response of many of those speakers drops quickly above 6 KHz or so. It might be worth a try, assuming the audio output impedance is in the neighborhood of 8 ohms.

-----Original Message-----
From: "pmarkavage" <pmarkavage@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: 8/6/2009 2:17 AM
Subject: Re: [TS-520_820_530_830]

Nothing like listening to the rumble of static
through a 12 inch woofer. It gets the heart pumping.

Pete, wa2cwa

21991. TS-830s ... foot-switch install ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-06 17:53:30 UTC
From: mwusmm
Topic: 21991 Message: 21991

Folks....could not locate info in search mode.
So...I would like to add a PTT/foot switch to my TS-830s.
Also using a MC-60 mic (not the MC-60A version).
Does the 1/4 plug from footswitch plug into the "key" slot on rear of unit OR do I need to modify the MC-60 circuit, etc?
thanks for your guidance....
KA5HIA

21992. RE: [TS-520_820_530_830] TS-830s ... foot-switch install ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-06 18:08:52 UTC
From: Greg Anders
Topic: 21991 Message: 21992

If the radio does not have a rear panel PTT connector you should wire the footswitch into the front panel mic plug you wire to the microphone. The key jack is only for use in CW mode, it won't do anything for you in SSB.

Greg

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of mwusmm
Sent: Thursday, August 06, 2009 10:54 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS-830s ... foot-switch install ?

Folks....could not locate info in search mode.
So...I would like to add a PTT/foot switch to my TS-830s.
Also using a MC-60 mic (not the MC-60A version).
Does the 1/4 plug from footswitch plug into the "key" slot on rear of unit OR do I need to modify the MC-60 circuit, etc?
thanks for your guidance....
KA5HIA

[Non-text portions of this message have been removed]

21993. Re: [TS-520_820_530_830] TS-830s ... foot-switch install ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-06 19:54:03 UTC
From: Dave ve3wej
Topic: 21991 Message: 21993

you could also use the mfj 1261/1262/1263 for mike switching, they also have
the 1/4 jack on the back for foot/hand switch

If out of your budget, maybe clone for your needs...

----- Original Message -----
From: "mwusmm" <mwusmm@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, August 06, 2009 1:53 PM
Subject: [TS-520_820_530_830] TS-830s ... foot-switch install ?

> Folks....could not locate info in search mode.
> So...I would like to add a PTT/foot switch to my TS-830s.
> Also using a MC-60 mic (not the MC-60A version).
> Does the 1/4 plug from footswitch plug into the "key" slot on rear of unit
> OR do I need to modify the MC-60 circuit, etc?
> thanks for your guidance....
> KA5HIA
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
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21994. Re: [TS-520_820_530_830] TS-830s ... foot-switch install ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-06 21:09:45 UTC
From: Dave
Topic: 21991 Message: 21994

fwiw I put a 1/8" mono jack on the back of my MC-50 and wired it into
the PTT button. I also added an rf choke on the foot switch cable to
prevent picking up extra RF on the microphone. Seems to work fine.
- Dave W6OT

mwusmm wrote:
>
>
> Folks....could not locate info in search mode.
> So...I would like to add a PTT/foot switch to my TS-830s.
> Also using a MC-60 mic (not the MC-60A version).
> Does the 1/4 plug from footswitch plug into the "key" slot on rear of
> unit OR do I need to modify the MC-60 circuit, etc?
> thanks for your guidance....
> KA5HIA
>

21995. Incorrect Frequency on DG-5 on 10m only

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-07 00:45:09 UTC
From: unnorml
Topic: 21995 Message: 21995

Greetings,

Currently boggled by an issue of my DG-5 displaying an incorrect frequency of the TS-520S on 10m only.
The same result is present no matter if the VFO on the TS-520S or the external VFO-520S is used. They have the same "offset" for a lack of better terms.

Here's the examples to make things easy:

Band: 28 MHz / Subdial: 200
28200 MHz dialed on the TS-520S yields a display of 27700 on the DG-5.
Band: 28.5 MHz / Subdial: 200
28700 MHz dialed on the TS-520S yields a display of 27200 on the DG-5.
Band: 29.1 MHz / Subdial: 200
29300 MHz dialed on the TS-520S yields a display of 26200 on the DG-5.

Yes the numbers are correct, I've performed a full alignment and attempted to adjust the VFO with no success.
Can't seem to figure out why the display is running out in the opposite direction.
Wondering if anyone else has experienced this issue or if you might know of the problem.

Any and all assistance with this will be greatly appreciated.

73,

Michael - KI4FDH

21996. Re: [TS-520_820_530_830] Incorrect Frequency on DG-5 on 10m only

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-07 01:20:47 UTC
From: Lou Blasco
Topic: 21995 Message: 21996

Hi Michael,

Are your LO frequencies correct when measured with a DFM? Is it
possible that the set has been modified for 11m?

Lou
VK3ALB

At 10:45 AM 07/08/2009, you wrote:
>Greetings,
>
>Currently boggled by an issue of my DG-5 displaying an incorrect
>frequency of the TS-520S on 10m only.
>The same result is present no matter if the VFO on the TS-520S or
>the external VFO-520S is used. They have the same "offset" for a
>lack of better terms.
>
>Here's the examples to make things easy:
>
>Band: 28 MHz / Subdial: 200
>28200 MHz dialed on the TS-520S yields a display of 27700 on the DG-5.
>Band: 28.5 MHz / Subdial: 200
>28700 MHz dialed on the TS-520S yields a display of 27200 on the DG-5.
>Band: 29.1 MHz / Subdial: 200
>29300 MHz dialed on the TS-520S yields a display of 26200 on the DG-5.
>
>Yes the numbers are correct, I've performed a full alignment and
>attempted to adjust the VFO with no success.
>Can't seem to figure out why the display is running out in the
>opposite direction.
>Wondering if anyone else has experienced this issue or if you might
>know of the problem.
>
>Any and all assistance with this will be greatly appreciated.
>
>73,
>
>Michael - KI4FDH
>
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>
>Yahoo! Groups Links

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21997. Re: [TS-520_820_530_830] TS-830s ... foot-switch install ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-07 06:02:08 UTC
From: martin
Topic: 21991 Message: 21997

Hi Kashia. I believe the best way to connect a foot switch to your
TS-830S is via the remote connector. I did this for a friend recently
for his TS-440Sat. Using shielded wire, make a short jumper with a 14
inline jack on one end, and a 7 pin connector on the other. You will
need to get the correct connector, as I do not believe that Kenwood
used standard 7 pin din plugs. Get the 7 pin din plug, and make sure
it fits the remote socket first. This way, you do noy have to midify
your mic, or radio.

TTYL

mwusmm wrote:
> Folks....could not locate info in search mode.
> So...I would like to add a PTT/foot switch to my TS-830s.
> Also using a MC-60 mic (not the MC-60A version).
> Does the 1/4 plug from footswitch plug into the "key" slot on rear of unit OR do I need
to modify the MC-60 circuit, etc?
> thanks for your guidance....
> KA5HIA
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

21998. Re: [TS-520_820_530_830] Incorrect Frequency on DG-5 on 10m only

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-07 06:06:18 UTC
From: martin
Topic: 21995 Message: 21998

Hi Guys. Sounds like it has been modded for 11M to me. Especially as the frequencies shown on the DG5-5 are all in the 11M range, and 10M is the only band that is off. Best to check the output into a dummy load with a frequency counter. If it has been modded for 11M, you will have to undo the mod.

TTYL

Lou Blasco wrote:
> Hi Michael,
>
> Are your LO frequencies correct when measured with a DFM? Is it
> possible that the set has been modified for 11m?
>
> Lou
> VK3ALB
>
> At 10:45 AM 07/08/2009, you wrote:
>> Greetings,
>>
>> Currently boggled by an issue of my DG-5 displaying an incorrect
>> frequency of the TS-520S on 10m only.
>> The same result is present no matter if the VFO on the TS-520S or
>> the external VFO-520S is used. They have the same "offset" for a
>> lack of better terms.
>>
>> Here's the examples to make things easy:
>>
>> Band: 28 MHz / Subdial: 200
>> 28200 MHz dialed on the TS-520S yields a display of 27700 on the DG-5.
>> Band: 28.5 MHz / Subdial: 200
>> 28700 MHz dialed on the TS-520S yields a display of 27200 on the DG-5.
>> Band: 29.1 MHz / Subdial: 200
>> 29300 MHz dialed on the TS-520S yields a display of 26200 on the DG-5.
>>
>> Yes the numbers are correct, I've performed a full alignment and
>> attempted to adjust the VFO with no success.
>> Can't seem to figure out why the display is running out in the
>> opposite direction.
>> Wondering if anyone else has experienced this issue or if you might
>> know of the problem.
>>
>> Any and all assistance with this will be greatly appreciated.
>>
>> 73,

>>
>> Michael - KI4FDH
>>
>>
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>> Yahoo! Groups Links
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CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

21999. Re: Incorrect Frequency on DG-5 on 10m only

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-07 15:20:30 UTC
From: w5rkl
Topic: 21995 Message: 21999

As previously stated, it appears your 520S has been
modified to operate on the 11 meter band by some CB hacker.

Based on the information you provided, the list below is what I
believe are the heterodyne oscillator crystal frequencies the
CB Hacker used to replace the original 10 meter heterodyne oscillator
crystals, allowing the 520 to operate on 11 meters.

11 meter heterodyne oscillator crystal frequencies:

-BS --- HET CRYSTAL --- Receive and transmit band
-28.0 - 36.395Mhz ----> 27.5 Mhz (11 meters)
-28.5 - 35.895Mhz ----> 27.0 Mhz (11 meters)
-29.1 - 34.895Mhz ----> 26.0 Mhz (11 meters)

Note:

BS is short for "Band Switch".

To fix your problem, the original 10 meter heterodyne oscillator
crystals must replace the CB Hacker's 11 meter heterodyne oscillator
crystals. The list below are the original 10 meter heterodyne
oscillator crystal frequencies.

Original 10 meter heterodyne oscillator crystal frequencies:

-BS -- HET CRYSTAL - Receive and transmit band
28.0 - 36.895Mhz --- 28.0, (10 meters)
29.5 - 37.395Mhz --- 28.5, (10 meters)
29.1 - 37.995Mhz --- 29.1, (10 meters)

BS is short for "Band Switch".

The DG-5 has a "COUNT IN" socket on the rear of the DG-5.
Remove all cables between the 520S and the DG-5 "except" for the
power cable. Connect one cable between the HET socket on the rear of
the 520S and the DG-5's COUNT IN socket. Set the DG-5's front panel
slide switch to COUNTER. Set the band switch to each 10 meter band
switch setting. The DG-5 will display the 520's RF UNIT heterodyne
oscillator frequency for each band switch setting. I suspect the
DG-5 will display frequencies that are similar to or quite close to
the 11 meter heterodyne oscillator crystal frequencies I provided
above.

The 11 meter modification to the 520 does not include modifying the VFO or any other crystal oscillator such as the CAR UNIT. You can verify the VFO output top and bottom frequencies by moving the cable connected to the HET socket on the rear of the 520 to the VFO socket. Tune the VFO to a dial setting of zero. The DG-5 should display 5.500Mhz. Tune the VFO ti a dial setting of 500. The DG-5 should display 5.000Mhz. Mechanical dial calibration on both internal and remote VFOs will affect the accuracy of the DG-5 VFO frequency display.

To verify the CAR UNIT crystal frequencies, move the cable connected to the 520's rear HET socket and connect it to the CAR socket. The list below is the normal CAR UNIT crystal frequencies based on the position of the mode switch.

CW receive - 3395.0Mhz
USB receive - 3396.5Mhz
LSB receive - 3393.5Mhz

Age and CAR UNIT alignment can and will affect the accuracy of the CAR UNIT crystal frequencies. However, the CAR UNIT crystal frequencies should be close to the frequency list provided above.

Replacement crystals can be obtained from International Crystals in Oklahoma City, Oklahoma. International Crystals has an archive list of all manufacturers they provide crystals for and they can easily determine the correct crystal type and holder. All you have to do is tell them what circuit the crystal is being used for and the crystal frequency. See the list of "ORIGINAL" heterodyne oscillator crystal frequencies when ordering replacement crystals.

I also recommend performing a thorough inspection of the final amplifier including the PI Network's LOAD circuitry which includes the fixed LOAD capacitors and band switch wafer wiring for any changes that may have been done by the CB Hacker during the 11 meter conversion. Consult the 520S service manual's parts list AND schematic for further details.

Also, I recommend reviewing the 520's service manual and schematic for details on alignment. More than likely you will have to perform an alignment of the 10 meter band. Do not perform an alignment until you are sure all of the components and crystals that were changed by the CB Hacker have been replaced with original components/crystals.

I am NOT a CB Hacker but I do understand how the signal conversion process takes place in the 520 in both transmit and receive. If you desire additional information drop me an e-mail.

73
Mike W5RKL

22000. Re: Incorrect Frequency on DG-5 on 10m only

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-07 21:29:23 UTC
From: unnorml
Topic: 21995 Message: 22000

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> As previously stated, it appears your 520S has been
> modified to operate on the 11 meter band by some CB hacker.
>
> Based on the information you provided, the list below is what I
> believe are the heterodyne oscillator crystal frequencies the
> CB Hacker used to replace the original 10 meter heterodyne oscillator
> crystals, allowing the 520 to operate on 11 meters.
>
> 11 meter heterodyne oscillator crystal frequencies:
>
> -BS --- HET CRYSTAL --- Receive and transmit band
> -28.0 - 36.395Mhz ----> 27.5 Mhz (11 meters)
> -28.5 - 35.895Mhz ----> 27.0 Mhz (11 meters)
> -29.1 - 34.895Mhz ----> 26.0 Mhz (11 meters)
>
> Note:
>
> BS is short for "Band Switch".
>
> ---------------------------------------
>
>
> To fix your problem, the original 10 meter heterodyne oscillator
> crystals must replace the CB Hacker's 11 meter heterodyne oscillator
> crystals. The list below are the original 10 meter heterodyne
> oscillator crystal frequencies.
>
> Original 10 meter heterodyne oscillator crystal frequencies:
>
> -BS -- HET CRYSTAL - Receive and transmit band
> 28.0 - 36.895Mhz --- 28.0, (10 meters)
> 29.5 - 37.395Mhz --- 28.5, (10 meters)
> 29.1 - 37.995Mhz --- 29.1, (10 meters)
>
> BS is short for "Band Switch".
>
>
> ---------------------------------------
>
>
>
> The DG-5 has a "COUNT IN" socket on the rear of the DG-5.
> Remove all cables between the 520S and the DG-5 "except" for the

> power cable. Connect one cable between the HET socket on the rear of
> the 520S and the DG-5's COUNT IN socket. Set the DG-5's front panel
> slide switch to COUNTER. Set the band switch to each 10 meter band
> switch setting. The DG-5 will display the 520's RF UNIT heterodyne
> oscillator frequency for each band switch setting. I suspect the
> DG-5 will display frequencies that are similar to or quite close to
> the 11 meter heterodyne oscillator crystal frequencies I provided
> above.
>
> The 11 meter modification to the 520 does not include modifying the
> VFO or any other crystal oscillator such as the CAR UNIT. You can
> verify the VFO output top and bottom frequencies by moving the cable
> connected to the HET socket on the rear of the 520 to the VFO socket.
> Tune the VFO to a dial setting of zero. The DG-5 should display
> 5.500Mhz. Tune the VFO ti a dial setting of 500. The DG-5 should
> display 5.000Mhz. Mechanical dial calibration on both internal and
> remote VFOs will affect the accuracy of the DG-5 VFO frequency
> display.
>
> To verify the CAR UNIT crystal frequencies, move the cable
> connected to the 520's rear HET socket and connect it to the CAR
> socket. The list below is the normal CAR UNIT crystal frequencies
> based on the position of the mode switch.
>
> CW receive - 3395.0Mhz
> USB receive - 3396.5Mhz
> LSB receive - 3393.5Mhz
>
> Age and CAR UNIT alignment can and will affect the accuracy of
> the CAR UNIT crystal frequencies. However, the CAR UNIT crystal
> frequencies should be close to the frequency list provided above.
>
> Replacement crystals can be obtained from International Crystals
> in Oklahoma City, Oklahoma. International Crystals has an archive
> list of all manufacturers they provide crystals for and they can
> easily determine the correct crystal type and holder. All you have
> to do is tell them what circuit the crystal is being used for
> and the crystal frequency. See the list of "ORIGINAL" heterodyne
> oscillator crystal frequencies when ordering replacement crystals.
>
> I also recommend performing a thorough inspection of the final
> amplifier including the PI Network's LOAD circuitry which
> includes the fixed LOAD capacitors and band switch wafer wiring for
> any changes that may have been done by the CB Hacker during the
> 11 meter conversion. Consult the 520S service manual's parts list
> AND schematic for further details.
>
> Also, I recommend reviewing the 520's service manual and schematic
> for details on alignment. More than likely you will have to perform
> an alignment of the 10 meter band. Do not perform an alignment until

> you are sure all of the components and crystals that were changed
> by the CB Hacker have been replaced with original components/crystals.
>
> I am NOT a CB Hacker but I do understand how the signal conversion
> process takes place in the 520 in both transmit and receive. If you
> desire additional information drop me an e-mail.
>
> 73
> Mike W5RKL
>
Just opened her up and found the crystals had been swapped.
Thanks for all of your support - It will be a busy weekend for me.

73
Mike - KI4FDH

22001. Help needed on digital display on TS-820(s)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-07 22:45:48 UTC
From: Ken
Topic: 22001 Message: 22001

I have a TS-820 with the digital display option. Some times it acts funny, and I'll try to explain what it does. On the digital display 14.2XX.0 for example, the XX 8 will be 0 and 9 will be 1 only acting up on the segments marked XX. Any idea what component would cause this? It seems to be somewhat temperature sensitive.
Thanks Ken WA0NVT

22002. Re: Help needed on digital display on TS-820(s)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-07 23:28:52 UTC
From: w5rkl
Topic: 22001 Message: 22002

Hello Ken,

If the 820 is otherwise operating normally, I would suspect the Counter Unit's internal fix pins connecting the 2 internal PC boards together. Over time the internal pins and sockets can become dirty creating strange operation.

Removing the Counter Unit assembly is not difficult. Remove all power from the 820 and remove the top and bottom covers.

Remove the top and bottom plugs to the Counter Unit then loosen the assembly mounting screws.

Gently remove the Counter Unit assembly from the 820 then remove the outer cover.

Remove the PC board mounting screws, one board at a time.

Gently remove the board and apply contact cleaner to the pins and the board's sockets. Install and remove the board a few times. This allows a cleaning scrubbing action to take place between the pins and sockets. Install the board and secure it to the metal enclosure with the mounting screws, ensuring each mounting screw it tight. Do not over-tighten the mounting screws.

Do the same thing with the other board.

Use canned air, found at Walmart, to remove excess contact cleaner.

Install the metal enclosure and tighten the cover screws.

Clean the top and bottom pins on the Counter Unit with contact cleaner and reinstall the Counter Unit in the 820 and reconnect the top and bottom plugs.

Again, use canned air to remove excess contact cleaner.

Wait 3 to 5 minutes before applying power. Contact cleaner is flammable. It only takes a small spark to ignite it.

It doesn't take much contact cleaner so do not soak the pins and sockets. A little bit goes a long way.

Check for proper operation.

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Ken" <kbirkmann@...> wrote:
>
> I have a TS-820 with the digital display option. Some times it acts funny, and I'll try to explain what it does. On the digital display 14.2XX.0 for example, the XX 8 will be 0 and 9 will be 1 only acting up on the segments marked XX. Any idea what component would cause this? It seems to be somewhat temperature sensitive.
> Thanks Ken WA0NVT
>

22003. AT-200 Tuner Low Power Reading vs. Bird and KW SW-2000 Powermeters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-07 22:49:28 UTC
From: unnorml
Topic: 22003 Message: 22003

Greetings all,

I have a bit of a discrepancy between my Kenwood AT-200 Tuner set to measure power vs. my Bird wattmeter.

The AT-200 reads lower power output as compared to the Bird.

I notice that the Bird will read 100W out on 14 MHz from my TS-520S and the AT-200 will peak at 100W then drop to 80W immediately.
I even checked on my Kenwood SW-2000 and measured from my dummy load all resulting with around 100W with exception of the tuner.

Anyone got a theory behind this one?

Figured I'd post it before opening up the AT-200

73,
Mike - KI4FDH

22004. Re: [TS-520_820_530_830] Re: Help needed on digital display on TS-820(s)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-08 04:25:47 UTC
From: Dave ve3wej
Topic: 22001 Message: 22004

i agree with this, because I just had the same thing, and this worked

----- Original Message -----
From: "w5rkl" <w5rkl@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, August 07, 2009 7:28 PM
Subject: [TS-520_820_530_830] Re: Help needed on digital display on TS-820(s)

> Hello Ken,
>
> If the 820 is otherwise operating normally, I would suspect the
> Counter Unit's internal fix pins connecting the 2 internal PC boards
> together. Over time the internal pins and sockets can become dirty
> creating strange operation.
>
> Removing the Counter Unit assembly is not difficult. Remove
> all power from the 820 and remove the top and bottom covers.
>
> Remove the top and bottom plugs to the Counter Unit then loosen the
> assembly mounting screws.
>
> Gently remove the Counter Unit assembly from the 820 then remove
> the outer cover.
>
> Remove the PC board mounting screws, one board at a time.
>
> Gently remove the board and apply contact cleaner to the pins
> and the board's sockets. Install and remove the board a few times.
> This allows a cleaning scrubbing action to take place between the
> pins and sockets. Install the board and secure it to the metal
> enclosure with the mounting screws, ensuring each mounting screw
> it tight. Do not over-tighten the mounting screws.
>
> Do the same thing with the other board.
>
> Use canned air, found at Walmart, to remove excess contact cleaner.
>
> Install the metal enclosure and tighten the cover screws.
>
> Clean the top and bottom pins on the Counter Unit with contact
> cleaner and reinstall the Counter Unit in the 820 and reconnect
> the top and bottom plugs.
>

> Again, use canned air to remove excess contact cleaner.
>
> Wait 3 to 5 minutes before applying power. Contact cleaner is
> flammable. It only takes a small spark to ignite it.
>
> It doesn't take much contact cleaner so do not soak the pins
> and sockets. A little bit goes a long way.
>
> Check for proper operation.
>
> 73
> Mike W5RKL
>
>
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>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ken" <kbirkmann@...> wrote:
>>
>> I have a TS-820 with the digital display option. Some times it acts
>> funny, and I'll try to explain what it does. On the digital display
>> 14.2XX.0 for example, the XX 8 will be 0 and 9 will be 1 only acting
>> up on the segments marked XX. Any idea what component would cause this?
>> It seems to be somewhat temperature sensitive.
>> Thanks Ken WA0NVT
>>
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> Yahoo! Groups Links
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22005. Re: [TS-520_820_530_830] AT-200 Tuner Low Power Reading vs. Bird and KW SW-2000 Powermeters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-08 04:25:10 UTC
From: Dave ve3wej
Topic: 22003 Message: 22005

for 20 watts, I would not even worry about it.. each device works a little different, even as far as accuracy....

----- Original Message -----
From: "unnorml" <unnorml@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, August 07, 2009 6:49 PM
Subject: [TS-520_820_530_830] AT-200 Tuner Low Power Reading vs. Bird and KW SW-2000 Powermeters

> Greetings all,
>
> I have a bit of a discrepancy between my Kenwood AT-200 Tuner set to
> measure power vs. my Bird wattmeter.
>
> The AT-200 reads lower power output as compared to the Bird.
>
> I notice that the Bird will read 100W out on 14 MHz from my TS-520S and
> the AT-200 will peak at 100W then drop to 80W immediately.
> I even checked on my Kenwood SW-2000 and measured from my dummy load all
> resulting with around 100W with exception of the tuner.
>
> Anyone got a theory behind this one?
>
> Figured I'd post it before opening up the AT-200
>
> 73,
> Mike - KI4FDH
>
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>
> Yahoo! Groups Links
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22006. Re: Help needed on digital display on TS-820(s)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-08 05:11:34 UTC
From: Ken
Topic: 22001 Message: 22006

Thanks, I will try it.

--- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@...> wrote:
>
> i agree with this, because I just had the same thing, and this worked
>
>
>
> ----- Original Message -----
> From: "w5rkl" <w5rkl@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Friday, August 07, 2009 7:28 PM
> Subject: [TS-520_820_530_830] Re: Help needed on digital display on
> TS-820(s)
>
>
> > Hello Ken,
> >
> > If the 820 is otherwise operating normally, I would suspect the
> > Counter Unit's internal fix pins connecting the 2 internal PC boards
> > together. Over time the internal pins and sockets can become dirty
> > creating strange operation.
> >
> > Removing the Counter Unit assembly is not difficult. Remove
> > all power from the 820 and remove the top and bottom covers.
> >
> > Remove the top and bottom plugs to the Counter Unit then loosen the
> > assembly mounting screws.
> >
> > Gently remove the Counter Unit assembly from the 820 then remove
> > the outer cover.
> >
> > Remove the PC board mounting screws, one board at a time.
> >
> > Gently remove the board and apply contact cleaner to the pins
> > and the board's sockets. Install and remove the board a few times.
> > This allows a cleaning scrubbing action to take place between the
> > pins and sockets. Install the board and secure it to the metal
> > enclosure with the mounting screws, ensuring each mounting screw
> > it tight. Do not over-tighten the mounting screws.
> >
> > Do the same thing with the other board.
> >
> > Use canned air, found at Walmart, to remove excess contact cleaner.
> >

> > Install the metal enclosure and tighten the cover screws.
> >
> > Clean the top and bottom pins on the Counter Unit with contact
> > cleaner and reinstall the Counter Unit in the 820 and reconnect
> > the top and bottom plugs.
> >
> > Again, use canned air to remove excess contact cleaner.
> >
> > Wait 3 to 5 minutes before applying power. Contact cleaner is
> > flammable. It only takes a small spark to ignite it.
> >
> > It doesn't take much contact cleaner so do not soak the pins
> > and sockets. A little bit goes a long way.
> >
> > Check for proper operation.
> >
> > 73
> > Mike W5RKL
> >
> >
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> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Ken" <kbirkmann@> wrote:
> >>
> >> I have a TS-820 with the digital display option. Some times it acts
> >> funny, and I'll try to explain what it does. On the digital display
> >> 14.2XX.0 for example, the XX 8 will be 0 and 9 will be 1 only acting
> >> up on the segments marked XX. Any idea what component would cause this?
> >> It seems to be somewhat temperature sensitive.
> >> Thanks Ken WA0NVT
> >>
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> > Yahoo! Groups Links
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22007. Odd RF gain/AGC problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-08 09:37:26 UTC
From: martin
Topic: 22001 Message: 22007

Hi Folks. I am having an odd problem on my TS-530S. I find no mention of this problem in the archives. When I turn the RF gain up (clockwise) past 8.5 there seems to be a slight loss of sensitivity, and it takes a strong (S-8 or higher) signal for the S-meter to move. I can still hear weaker signals ok, just no meter movement. I first noticed this on a quiet band. The band noise drops off slightly as the RF gain is rotated past 8.5.

This happens in USB, LSB, and CW modes, and with the AGC set to fast slow or off. It happens on all bands. In testing this, I peaked the Drive control for maximum signal with the calibrator on each band. The meter works fine to read bias current, and works like it should in all tuning and transmit settings. I am not getting any audio distortion, the radio still sounds good on RX as it always has. The radio tunes up and transmits fine.

I cleaned the RF gain pot with DeOxid D5 solution, and it made no difference.

Any ideas as to where I should start looking?

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at http://www.defectivebydesign.org/what_is_drm"

22008. Re: [TS-520_820_530_830] AT-200 Tuner Low Power Reading vs. Bird and KW SW-2000 Powermeters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-08 12:13:03 UTC
From: L Kendall
Topic: 22003 Message: 22008

what range (in watts) is the slug you are using in the bird meter?

consider that the bird meter is designed for the sole purpose of
measurement. it is a piece of test equipment.

now consider that the matching network (i have a problem with calling a
matching network a "tuner") is designed to match the impedance.
effectively, it is a transformer. it's not designed to be a measurement
tool. the important measurement that it does make is the *ratio* of
power out / to power that is reflected back.

>
> ----- Original Message -----
> From: "unnorml" <unnorml@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Friday, August 07, 2009 6:49 PM
> Subject: [TS-520_820_530_830] AT-200 Tuner Low Power Reading vs. Bird and KW
> SW-2000 Powermeters
>
>
> > Greetings all,
> >
> > I have a bit of a discrepancy between my Kenwood AT-200 Tuner set to
> > measure power vs. my Bird wattmeter.
> >
> > The AT-200 reads lower power output as compared to the Bird.
> >
> > I notice that the Bird will read 100W out on 14 MHz from my TS-520S and
> > the AT-200 will peak at 100W then drop to 80W immediately.
> > I even checked on my Kenwood SW-2000 and measured from my dummy load all
> > resulting with around 100W with exception of the tuner.
> >
> > Anyone got a theory behind this one?
> >
> > Figured I'd post it before opening up the AT-200
> >
> > 73,
> > Mike - KI4FDH
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> > Yahoo! Groups Links

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[Non-text portions of this message have been removed]

22009. Re: [TS-520_820_530_830] Odd RF gain/AGC problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-08 13:00:07 UTC
From: Dave ve3wej
Topic: 22001 Message: 22009

sounds normal to me. as the rf gain is turned, yes receive does reduce. that is how they eliminate unwanted signals, and the needle goes up

----- Original Message -----
From: "martin" <kb0hae@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, August 08, 2009 5:37 AM
Subject: [TS-520_820_530_830] Odd RF gain/AGC problem

> Hi Folks. I am having an odd problem on my TS-530S. I find no
> mention of this problem in the archives. When I turn the RF gain up
> (clockwise) past 8.5 there seems to be a slight loss of sensitivity,
> and it takes a strong (S-8 or higher) signal for the S-meter to move.
> I can still hear weaker signals ok, just no meter movement. I first
> noticed this on a quiet band. The band noise drops off slightly as
> the RF gain is rotated past 8.5.
>
> This happens in USB, LSB, and CW modes, and with the AGC set to fast
> slow or off. It happens on all bands. In testing this, I peaked the
> Drive control for maximum signal with the calibrator on each band.
> The meter works fine to read bias current, and works like it should in
> all tuning and transmit settings. I am not getting any audio
> distortion, the radio still sounds good on RX as it always has. The
> radio tunes up and transmits fine.
>
> I cleaned the RF gain pot with DeOxid D5 solution, and it made no
> difference.
>
> Any ideas as to where I should start looking?
>
>
> --
> CUL8R
>
> KBOHAE kb0hae@... Martin Campbell
>
> A Satisfied Sidux Linux user! To get Sidux go to:
> www.sidux.com/index.html
> "Protect your digital freedom and privacy, eliminate DRM, learn more
> at http://www.defectivebydesign.org/what_is_drm"
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> Yahoo! Groups Links

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22010. Re: 830s drop in output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-08 04:28:00 UTC
From: va3slj
Topic: 21984 Message: 22010

parts ordered. Thanks for the info!

22011. TS-520s limited operation

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-08 15:21:35 UTC
From: kd4taw
Topic: 22011 Message: 22011

I only have transmit and recieve on 3.5 band and no other except JJY & WWV.If I switch the band switch to any other band I loose recieve and transmit.I only have to turn the power switch off and back on again while in the 3.5 band and transmit and recieve will resume. Please help I love this radio and hate it like this

22012. TS-520s limited operation

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-08 15:28:47 UTC
From: kd4taw
Topic: 22011 Message: 22012

I forgot to say that I have cleaned all switches and and wafers in the band switch segment with deoxit and inspected operation of same.

22013. AT-200 METER LAMP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-08 16:09:19 UTC
From: Rick
Topic: 22013 Message: 22013

Hello Everyone

I wonder if anyone has put a 12 V light bulb in their AT-200?

I just picked up a nice AT-200 and thought it would be nice to have a light to show the meter better.

So if you have done this mod could you please post your results.

Thanks
73, Rick VE3FMC

22014. WTB Kenwood R-820 Receiver

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-08 16:12:17 UTC
From: sceneryguru
Topic: 22014 Message: 22014

The subject line says it all

Unit should be 100% functional, unmodified, clean and include the accessory cable allowing transceiver operation, with the Kenwood TS-820S. If anyone in the group is interested in selling, or know where one is lurking, please don't hesitate in contacting me.
k3ssb@verizon.net

TNX & 73

Tom G, Sr.
K3SSB

22015. Re: [TS-520_820_530_830] AT-200 METER LAMP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-08 16:36:44 UTC
From: Jeffrey P. Nast
Topic: 22013 Message: 22015

I just had someone else ask me about that (http://www.frontiernet.net/~jpnast/jeff.html). My response:

Hello John!

I originally took apart my tuner because of problems on 160m. Found a fried wafer switch. Looked like lightning got it. Ordered the last one in stock and got it fixed.

While inside the case, I noticed that the meter had the same kind of lamp housing as the meters in the TS-520S. Got me thinking that it would be nice to be able to actually see the meter in low light conditions.

Since I like the warmer glow of incandescent lamps, I decided not to go the way of LEDs. I ordered lamps from East Coast (http://www.kenwoodparts.com/). The originals sub to another part number, but they fit fine. Though a bit spendy. Get a couple extra...

I mounted the lamps inside and ran a small power cable out through one of the lower corners. The cover does not perfectly match the backplate so there is a gap that I used, saving me from drilling a hole. I used tie wraps inside and out for strain relief. About 6" outside of the case I put a two conductor molex connector so it would be easy to disconnect.

The other end of the power cable ended up in the External VFO connector. The VFO-520S lamps have to be powered through the connector, so I tapped into pin 3 for ground and pin 4 for what I believe is the +13.8v. Please double check to make sure. It's late...

Sure is nice to see that meter in the dark. How's that for a lengthy answer to a short question? ;-) Hope it helps. 73!

-Jeff KC?MKS

Rick wrote:
>
>
> Hello Everyone
>
> I wonder if anyone has put a 12 V light bulb in their AT-200?
>
> I just picked up a nice AT-200 and thought it would be nice to have a
> light to show the meter better.
>
> So if you have done this mod could you please post your results.
>
> Thanks

> 73, Rick VE3FMC
>
>

22016. Re: AT-200 METER LAMP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-08 16:51:42 UTC
From: unnorml
Topic: 22013 Message: 22016

Hi Rick,

I did this to my AT-200, It's nice when the meter lights up to match the transceiver. Simple mod, I had some spare lamps left over from relamping my 520S and used the grommets from a spare VFO-520 that I had for spare parts. The meter on the AT-200 already has the cut-outs for mounting the lamps in the grommets to the top of the meter (exactly the same as the ALC meter on the Kenwood transceivers).

WARNING: I recommend you use connectors for power (positive and negative) with no chasis grounding.

Option (1): connect a 12VAC wall power supply to the lamps in the tuner.

Option (2) for use with a Kenwood Transciever.

Drill a small hole in the back panel of both the tuner and transceiver to accommodate a stereo 1/8" phone jack (Radio Shack part #274-0249). Or I would rather you use a power connector that will not short if you plug in or unplug the connector if it's turned on. Keep in mind the lamps run on 12VAC not DC.
Make sure your connections are to the 2 (pins 2 & 3) inner conductors and stay away from the ground conductor (pin 1), this will short 1 of the AC legs to the chasis ground. Bad things happen if this is done.
This is also the drawback to using these connectors, you don't want to plug or unplug the tuner to the transceiver or visa-versa if the transceiver is turned on. But it's my rig and I leave it plugged in at all times.

I used the terminal up next to my ALC meter on the 520S which is where the lamps for the 520S are tied to the 12VAC. I'm not sure what model transceiver your using but I'm sure the schematics are available somewhere.
I mounted the phone jack in the removable panel on the back of my transceiver and connected to the AT-200 with a stereo phone connector and "let there be light". Lights come on (on the tuner) when you turn on the transceiver. Pretty sweet at night too.

Hope all goes well.

73,

Mike - KI4FDH

--- In TS-520_820_530_830@yahoogroups.com, "Rick" <ve3fmc@...> wrote:
>
> Hello Everyone
>
> I wonder if anyone has put a 12 V light bulb in their AT-200?
>
> I just picked up a nice AT-200 and thought it would be nice to have a light to show the meter better.

>
> So if you have done this mod could you please post your results.
>
> Thanks
> 73, Rick VE3FMC
>

22017. Re: AT-200 METER LAMP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-08 17:12:45 UTC
From: Rick
Topic: 22013 Message: 22017

Thanks for the info Jeff.
I just picked the tuner up yesterday so I have not taken the cabinet off it yet. So knowing the lamp holders are already in place is interesting.

I can not use the External VFO lamp voltage as I have a VFO-520 hooked up. But no big deal, a small external supply will do the job.

Thanks for the help.
73, Rick VE3FMC

--- In TS-520_820_530_830@yahoogroups.com, "Jeffrey P. Nast" <kc0mks@...> wrote:
>
> I just had someone else ask me about that (
> http://www.frontiernet.net/~jpnast/jeff.html). My response:
>
> Hello John!
>
> I originally took apart my tuner because of problems on 160m. Found a
> fried wafer switch. Looked like lightning got it. Ordered the last one
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> lamp housing as the meters in the TS-520S. Got me thinking that it would
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> I mounted the lamps inside and ran a small power cable out through one
> of the lower corners. The cover does not perfectly match the backplate
> so there is a gap that I used, saving me from drilling a hole. I used
> tie wraps inside and out for strain relief. About 6" outside of the case
> I put a two conductor molex connector so it would be easy to disconnect.
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> The other end of the power cable ended up in the External VFO connector.
> The VFO-520S lamps have to be powered through the connector, so I tapped
> into pin 3 for ground and pin 4 for what I believe is the +13.8v. Please
> double check to make sure. It's late...
>
> Sure is nice to see that meter in the dark. How's that for a lengthy
> answer to a short question? ;-) Hope it helps. 73!
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> -Jeff KCØMKS
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>
>
> Rick wrote:
> >
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> > Hello Everyone
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> > I wonder if anyone has put a 12 V light bulb in their AT-200?
> >
> > I just picked up a nice AT-200 and thought it would be nice to have a
> > light to show the meter better.
> >
> > So if you have done this mod could you please post your results.
> >
> > Thanks
> > 73, Rick VE3FMC
> >
> >
>

22018. Re: [TS-520_820_530_830] AT-200 METER LAMP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-08 17:31:42 UTC
From: Dave ve3wej
Topic: 22013 Message: 22018

yes, I did Rick. 14v standard, and fed it from the 12 vac contacts from the
radio cable

----- Original Message -----
From: "Rick" <ve3fmc@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, August 08, 2009 12:09 PM
Subject: [TS-520_820_530_830] AT-200 METER LAMP

> Hello Everyone
>
> I wonder if anyone has put a 12 V light bulb in their AT-200?
>
> I just picked up a nice AT-200 and thought it would be nice to have a
> light to show the meter better.
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> Thanks
> 73, Rick VE3FMC
>
>
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> Yahoo! Groups Links
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22019. Re: Odd RF gain/AGC problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-08 19:09:42 UTC
From: w5rkl
Topic: 22001 Message: 22019

The 530's receiver gain and S meter movement is controlled in two ways:

1. RF Gain control (manually)

or

2. AGC voltage (automatic)

The RF Gain control, controls the receivers gain "manually" by varying the normal operating bias to the receiver's RF amplifier Q1 (RF UNIT), and both IF amplifiers Q2 and Q3 (IF UNIT). The RF Gain control also "manually" controls the meter amplifiers Q7 and Q8. Rotating the RF gain control, clockwise or counter clockwise, produces a change in the receiver's operating bias that results in a reduction or increase in receiver gain and a change in meter movement.

AGC controls the gain of the receiver by feeding the output of Q4 on the IF UNIT to the AGC circuit, Q5 and Q6. The same receiver gain control and meter movement occurs as with the RF gain control with one exception, it's all done "automatically".

A weak signal can easily be heard without producing any S meter movement! This does not indicate a problem with the 530's receiver.

Turning the AGC switch to "OFF" eliminates any automatic gain control (AGC) of the 530 receiver. The only gain control is the RF Gain control.

The "SLOW" and "FAST" AGC settings control the discharge time of the AGC voltage created by Q5 and Q6. The discharge rate determines how fast or slow the receiver's gain recovers from the incoming signal. In the "SLOW" position the AGC circuit operates in a "FAST ATTACK, SLOW DECAY" mode. In the "FAST" position, the AGC circuit operates with "FAST ATTACK, FAST DECAY" mode. The difference is based on the AGC RC time constant circuits selected by the AGC switch.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@...> wrote:
>
> sounds normal to me. as the rf gain is turned, yes receive does reduce. that
> is how they eliminate unwanted signals, and the needle goes up
>
>
> ----- Original Message -----

> From: "martin" <kb0hae@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Saturday, August 08, 2009 5:37 AM
> Subject: [TS-520_820_530_830] Odd RF gain/AGC problem
>
>
> > Hi Folks. I am having an odd problem on my TS-530S. I find no
> > mention of this problem in the archives. When I turn the RF gain up
> > (clockwise) past 8.5 there seems to be a slight loss of sensitivity,
> > and it takes a strong (S-8 or higher) signal for the S-meter to move.
> > I can still hear weaker signals ok, just no meter movement. I first
> > noticed this on a quiet band. The band noise drops off slightly as
> > the RF gain is rotated past 8.5.
> >
> > This happens in USB, LSB, and CW modes, and with the AGC set to fast
> > slow or off. It happens on all bands. In testing this, I peaked the
> > Drive control for maximum signal with the calibrator on each band.
> > The meter works fine to read bias current, and works like it should in
> > all tuning and transmit settings. I am not getting any audio
> > distortion, the radio still sounds good on RX as it always has. The
> > radio tunes up and transmits fine.
> >
> > I cleaned the RF gain pot with DeOxid D5 solution, and it made no
> > difference.
> >
> > Any ideas as to where I should start looking?
> >
> >
> > --
> > CUL8R
> >
> > KBOHAE kb0hae@... Martin Campbell
> >
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22020. Re: [TS-520_820_530_830] Re: AT-200 METER LAMP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-08 22:54:07 UTC
From: Jeffrey P. Nast
Topic: 22013 Message: 22020

I too have a VFO-520S. I took apart the connector and tapped into the
voltage there. Good luck!
-JEff

Rick wrote:
>
>
> Thanks for the info Jeff.
> I just picked the tuner up yesterday so I have not taken the cabinet
> off it yet. So knowing the lamp holders are already in place is
> interesting.
>
> I can not use the External VFO lamp voltage as I have a VFO-520 hooked
> up. But no big deal, a small external supply will do the job.
>
> Thanks for the help.
> 73, Rick VE3FMC
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Jeffrey P. Nast"
> <kc0mks@...> wrote:
> >
> > I just had someone else ask me about that (
> > http://www.frontiernet.net/~jpnast/jeff.html
> <http://www.frontiernet.net/%7Ejpnast/jeff.html>). My response:
> >
> > Hello John!
> >
> > I originally took apart my tuner because of problems on 160m. Found a
> > fried wafer switch. Looked like lightning got it. Ordered the last one
> > in stock and got it fixed.
> >
> > While inside the case, I noticed that the meter had the same kind of
> > lamp housing as the meters in the TS-520S. Got me thinking that it
> would
> > be nice to be able to actually see the meter in low light conditions.
> >
> > Since I like the warmer glow of incandescent lamps, I decided not to go
> > the way of LEDs. I ordered lamps from East Coast (
> > http://www.kenwoodparts.com/ <http://www.kenwoodparts.com/>). The
> originals sub to another part
> > number, but they fit fine. Though a bit spendy. Get a couple extra...
> >
> > I mounted the lamps inside and ran a small power cable out through one
> > of the lower corners. The cover does not perfectly match the backplate

> > so there is a gap that I used, saving me from drilling a hole. I used
> > tie wraps inside and out for strain relief. About 6" outside of the
> case
> > I put a two conductor molex connector so it would be easy to disconnect.
> >
> > The other end of the power cable ended up in the External VFO
> connector.
> > The VFO-520S lamps have to be powered through the connector, so I
> tapped
> > into pin 3 for ground and pin 4 for what I believe is the +13.8v.
> Please
> > double check to make sure. It's late...
> >
> > Sure is nice to see that meter in the dark. How's that for a lengthy
> > answer to a short question? ;-) Hope it helps. 73!
> >
> > -Jeff KC?MKS
> >
> >
> >
> > Rick wrote:
> > >
> > >
> > > Hello Everyone
> > >
> > > I wonder if anyone has put a 12 V light bulb in their AT-200?
> > >
> > > I just picked up a nice AT-200 and thought it would be nice to have a
> > > light to show the meter better.
> > >
> > > So if you have done this mod could you please post your results.
> > >
> > > Thanks
> > > 73, Rick VE3FMC
> > >
> > >
> >
>
>

22021. Re: [TS-520_820_530_830] Odd RF gain/AGC problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-09 04:32:25 UTC
From: martin
Topic: 22001 Message: 22021

Hi Dave. I guess I did not explain clearly enough. When I rotate the
RF gain counter-clockwise from 8.5 it acts as you say, and that is
normal. I am talking about when I rotate the RF gain CLOCKWISE past
8.5. That is when the behavior that I described takes place.
Starting with the RF gain all the way counter-clockwise (set at 0) and
rotating it CLOCKWISE, everything acts as it should until the RF gain
gets to 8.5. As the RF gain is rotated past 8.5, the band noise drops
off slightly, and when the control is set at 10, it takes an S-7 to
S-8 signal to make the meter move. I still hear signals, but at that
point only signals stronger than S-7-S-8 make the meter move.

I hope that this makes the problem clear to you.

TTYL.

Dave ve3wej wrote:
> sounds normal to me. as the rf gain is turned, yes receive does reduce. that
> is how they eliminate unwanted signals, and the needle goes up
>
>
> ----- Original Message -----
> From: "martin" <kb0hae@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Saturday, August 08, 2009 5:37 AM
> Subject: [TS-520_820_530_830] Odd RF gain/AGC problem

--
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22022. Re: [TS-520_820_530_830] Re: Odd RF gain/AGC problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-09 04:37:35 UTC
From: martin
Topic: 22001 Message: 22022

Hi Mike. Thanks for the explanation. I guess my original message
didn't make things clear as to what the problem is. See my reply to
Dave, and I hope it will be clear what the problem is.

TTYL

w5rkl wrote:
> The 530's receiver gain and S meter movement is controlled in two
> ways:
>
> 1. RF Gain control (manually)
>
> or
>
> 2. AGC voltage (automatic)
>
> The RF Gain control, controls the receivers gain "manually" by
> varying the normal operating bias to the receiver's RF
> amplifier Q1 (RF UNIT), and both IF amplifiers Q2 and Q3 (IF UNIT).
> The RF Gain control also "manually" controls the meter amplifiers
> Q7 and Q8. Rotating the RF gain control, clockwise or counter
> clockwise, produces a change in the receiver's operating bias
> that results in a reduction or increase in receiver gain and a
> change in meter movement.
>
> AGC controls the gain of the receiver by feeding the output of Q4
> on the IF UNIT to the AGC circuit, Q5 and Q6. The same receiver gain
> control and meter movement occurs as with the RF gain control with
> one exception, it's all done "automatically".
>
> A weak signal can easily be heard without producing any S meter
> movement! This does not indicate a problem with the 530's receiver.
>
> Turning the AGC switch to "OFF" eliminates any automatic gain
> control (AGC) of the 530 receiver. The only gain control is the
> RF Gain control.
>
> The "SLOW" and "FAST" AGC settings control the discharge time of
> the AGC voltage created by Q5 and Q6. The discharge rate determines
> how fast or slow the receiver's gain recovers from the incoming
> signal. In the "SLOW" position the AGC circuit operates in a "FAST
> ATTACK, SLOW DECAY" mode. In the "FAST" position, the AGC circuit
> operates with "FAST ATTACK, FAST DECAY" mode. The difference is based
> on the AGC RC time constant circuits selected by the AGC switch.
>

> Mike W5RKL
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@...> wrote:
>> sounds normal to me. as the rf gain is turned, yes receive does reduce. that
>> is how they eliminate unwanted signals, and the needle goes up
>>
>>
>> ----- Original Message -----
>> From: "martin" <kb0hae@...>
>> To: <TS-520_820_530_830@yahoogroups.com>
>> Sent: Saturday, August 08, 2009 5:37 AM
>> Subject: [TS-520_820_530_830] Odd RF gain/AGC problem
>>
>>
>>> Hi Folks. I am having an odd problem on my TS-530S. I find no
>>> mention of this problem in the archives. When I turn the RF gain up
>>> (clockwise) past 8.5 there seems to be a slight loss of sensitivity,
>>> and it takes a strong (S-8 or higher) signal for the S-meter to move.
>>> I can still hear weaker signals ok, just no meter movement. I first
>>> noticed this on a quiet band. The band noise drops off slightly as
>>> the RF gain is rotated past 8.5.
>>>
>>> This happens in USB, LSB, and CW modes, and with the AGC set to fast
>>> slow or off. It happens on all bands. In testing this, I peaked the
>>> Drive control for maximum signal with the calibrator on each band.
>>> The meter works fine to read bias current, and works like it should in
>>> all tuning and transmit settings. I am not getting any audio
>>> distortion, the radio still sounds good on RX as it always has. The
>>> radio tunes up and transmits fine.
>>>
>>> I cleaned the RF gain pot with DeOxid D5 solution, and it made no
>>> difference.
>>>
>>> Any ideas as to where I should start looking?
>>>
>>>
>>> --
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>>>
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>>>
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22023. Re: Odd RF gain/AGC problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-09 15:31:43 UTC
From: w5rkl
Topic: 22001 Message: 22023

Hello Martin,

I recommend performing the following voltage checks on the AF UNIT
using a DC volt meter.

Step 1

TP6
Voltage should be 9VDC (+/- .05VDC)
VR2 pot on the AF UNIT adjust this voltage to specifications.

Step 2

AF UNIT
Plug 11 pin 5 -- Voltage should be 3.2VDC (+/- .05VDC)
VR3 pot on the AF UNIT adjust this voltage to specifications.

Note:
The Rectifier Unit's 14VDC supply is the source voltage applied
to the AF UNIT for the creation of the 9VDC. The 9VDC is the
source voltage for the 3.2VDC.

Perform the checks and adjustments in the order shown above,
9VDC first followed by the 3.2VDC. Do not perform the adjustments
in reverse order as this will cause the 3.2VDC to be wrong.

If the voltage being applied through the RF Gain control to the RF
and IF amplifiers as mentioned in my previous response is higher than
the normal operating voltages to these stages, it is quite possible
this could lead to the symptoms you are experiencing.

This, or course, is assuming that all other circuits are within
specifications and working properly.

Mike W5RKL

22024. Tune Mode Repair & Meter Lamp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-09 18:08:15 UTC
From: L Kendall
Topic: 22001 Message: 22024

Mike,

You may recall a few weeks ago you recommended replacement of resistors R15 and R16 on the rectifier card of a TS-830S (G) that had an "inop" tune mode.
I never did follow up, and apologize for the delay in doing so.
Sure enough, R15 was open, or at least in the mega-ohms.
It all works fine now as far as I can tell. Just thought I would let you know. You probably saved me a lot of time troubleshooting and I appreciate that.

Now I've realized the lamp (for the meter) is not working.
Can you tell me what the direct replacement is, or if not, what a suitable replacement is?
I didn't realize the meter even had a lamp until I saw other TS-830S rigs demonstrated on Youtube...duh.

Thanks,

Larry K5END

[Non-text portions of this message have been removed]

22025. Re: [TS-520_820_530_830] Tune Mode Repair & Meter Lamp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-09 18:14:50 UTC
From: L Kendall
Topic: 22001 Message: 22025

Meaning, Mike as in "W5RKL Mike."

SRI.

73

Larry

On Sun, 2009-08-09 at 13:08 -0500, L Kendall wrote:

[Non-text portions of this message have been removed]

22026. Re: [TS-520_820_530_830] Re: Odd RF gain/AGC problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-09 20:06:15 UTC
From: martin
Topic: 22001 Message: 22026

Hi Mike. I will check in the next few days.

Thanks

TTYL

w5rkl wrote:
> Hello Martin,
>
> I recommend performing the following voltage checks on the AF UNIT
> using a DC volt meter.
>
> Step 1
>
> TP6
> Voltage should be 9VDC (+/- .05VDC)
> VR2 pot on the AF UNIT adjust this voltage to specifications.
>
> Step 2
>
> AF UNIT
> Plug 11 pin 5 -- Voltage should be 3.2VDC (+/- .05VDC)
> VR3 pot on the AF UNIT adjust this voltage to specifications.
>
> Note:
> The Rectifier Unit's 14VDC supply is the source voltage applied
> to the AF UNIT for the creation of the 9VDC. The 9VDC is the
> source voltage for the 3.2VDC.
>
>
>
> Perform the checks and adjustments in the order shown above,
> 9VDC first followed by the 3.2VDC. Do not perform the adjustments
> in reverse order as this will cause the 3.2VDC to be wrong.
>
> If the voltage being applied through the RF Gain control to the RF
> and IF amplifiers as mentioned in my previous response is higher than
> the normal operating voltages to these stages, it is quite possible
> this could lead to the symptoms you are experiencing.
>
> This, or course, is assuming that all other circuits are within
> specifications and working properly.
>
> Mike W5RKL
>
>

>

--
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22027. Panel Lamp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-09 20:41:27 UTC
From: L Kendall
Topic: 22001 Message: 22027

Lo and behold, K4EAA has these panel lamps for sale.

Google is ones friend. :)

73 LK

On Sun, 2009-08-09 at 13:08 -0500, L Kendall wrote:

> the lamp (for the meter) is not working.
> Can you tell me what the direct replacement is, or if not, what a
> suitable replacement is?

[Non-text portions of this message have been removed]

22028. Re: [TS-520_820_530_830] Panel Lamp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-10 01:55:06 UTC
From: Jim Stanicek
Topic: 22001 Message: 22028

Are the lamps the same as are used in the Golddust twins (R599 and T599) ? I believe they look like littlefuses, and are rated at 12 volts around 22 ma. Thanks

73, Jim AG3Y

----- Original Message -----
From: L Kendall
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, August 09, 2009 4:41 PM
Subject: [TS-520_820_530_830] Panel Lamp

Lo and behold, K4EAA has these panel lamps for sale.

Google is ones friend. :)

73 LK

On Sun, 2009-08-09 at 13:08 -0500, L Kendall wrote:

> the lamp (for the meter) is not working.
> Can you tell me what the direct replacement is, or if not, what a
> suitable replacement is?

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

22029. Re: [TS-520_820_530_830] Re: Odd RF gain/AGC problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-10 09:56:53 UTC
From: martin
Topic: 22001 Message: 22029

Hi Mike. I have checked and adjusted the voltages. Voltage at TP6 was 8.98V, now adjusted to 9V. Voltage at plug 11 pin 5 was 3.13V, now adjusted to 3.2V. The problem persists. Upon measuring the voltages on the RF gain pot (looking at the front of the radio, with the radio upside down):
The right terminal measures 3.2V no matter where the RF gain is set.
The left terminal measures 0.83V no matter where the RF gain is set.
The center terminal varies between 0.83V and 3.2V depending on the setting of the RF gain.
With the RF gain set at 8.5 (this is where I get maximum noise) the voltage on the center terminal of the RF gain pot is 3.03V, and the S-meter reads S-2

It seems likely to me that a bias resister for Q1 on the RF board, or for Q2 or Q3 on the IF board has changed value. Since the problem occurs with the AGC switch in any position, I don't think the problem is in the AGC circuit.

With the RF gain set to 10, the S-meter rests at) as it should.

I notice that neither the user manual nor the service manual for the TS-530S has a diagram for the RF board.

What do you think?

TTYL

w5rkl wrote:
> Hello Martin,
>
> I recommend performing the following voltage checks on the AF UNIT
> using a DC volt meter.
>
> Step 1
>
> TP6
> Voltage should be 9VDC (+/- .05VDC)
> VR2 pot on the AF UNIT adjust this voltage to specifications.
>
> Step 2
>
> AF UNIT
> Plug 11 pin 5 -- Voltage should be 3.2VDC (+/- .05VDC)
> VR3 pot on the AF UNIT adjust this voltage to specifications.
>
> Note:

> The Rectifier Unit's 14VDC supply is the source voltage applied
> to the AF UNIT for the creation of the 9VDC. The 9VDC is the
> source voltage for the 3.2VDC.
>
>
>
> Perform the checks and adjustments in the order shown above,
> 9VDC first followed by the 3.2VDC. Do not perform the adjustments
> in reverse order as this will cause the 3.2VDC to be wrong.
>
> If the voltage being applied through the RF Gain control to the RF
> and IF amplifiers as mentioned in my previous response is higher than
> the normal operating voltages to these stages, it is quite possible
> this could lead to the symptoms you are experiencing.
>
> This, or course, is assuming that all other circuits are within
> specifications and working properly.
>
> Mike W5RKL
>
>
>

--
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KBOHAE kb0hae@... Martin Campbell

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22030. Re: [TS-520_820_530_830] Panel Lamp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-10 11:53:30 UTC
From: L Kendall
Topic: 22001 Message: 22030

JIm,
You'd have to ask Jim K4EAA.

On Sun, 2009-08-09 at 21:55 -0400, Jim Stanicek wrote:

> Are the lamps the same as are used in the Golddust twins (R599 and T599) ? I believe they look like littlefuses, and are rated at 12 volts around 22 ma. Thanks
>
> 73, Jim AG3Y
>

[Non-text portions of this message have been removed]

22031. Re: Panel Lamp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-10 15:41:19 UTC
From: scott10k
Topic: 22001 Message: 22031

12 volts, 50 ma, and I bought a set from K4EAA and they work terrific. You can push the old lamp out of the rubber mounting gasket and replace with the new, then solder to the old wires and use a little shrinkwrap.

http://www.k4eaa.com/parts.htm

73s, Scott, N6CIC

--- In TS-520_820_530_830@yahoogroups.com, L Kendall <k5end@...> wrote:
>
>
> JIm,
> You'd have to ask Jim K4EAA.
>
> On Sun, 2009-08-09 at 21:55 -0400, Jim Stanicek wrote:
>
> > Are the lamps the same as are used in the Golddust twins (R599 and T599) ? I believe they look like littlefuses, and are rated at 12 volts around 22 ma. Thanks
> >
> > 73, Jim AG3Y
> >
>
>
>
>
> [Non-text portions of this message have been removed]
>

22032. Re: [TS-520_820_530_830] Panel Lamp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-10 13:45:58 UTC
From: Jim Stanicek
Topic: 22001 Message: 22032

Hi again, and thanks for the reference. I will look him up on QRZ.

73, Jim

----- Original Message -----
From: L Kendall
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, August 10, 2009 7:53 AM
Subject: Re: [TS-520_820_530_830] Panel Lamp

JIm,
You'd have to ask Jim K4EAA.

On Sun, 2009-08-09 at 21:55 -0400, Jim Stanicek wrote:

> Are the lamps the same as are used in the Golddust twins (R599 and T599) ? I believe they look like littlefuses, and are rated at 12 volts around 22 ma. Thanks
>
> 73, Jim AG3Y
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

22033. Re: [TS-520_820_530_830] Panel Lamp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-10 16:35:43 UTC
From: David King
Topic: 22001 Message: 22033

It's Ken, K4EAA

His website is www.k4eaa.com

dk

Jim Stanicek wrote:
>
>
> Hi again, and thanks for the reference. I will look him up on QRZ.
>
> 73, Jim
>
> ----- Original Message -----
> From: L Kendall
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Monday, August 10, 2009 7:53 AM
> Subject: Re: [TS-520_820_530_830] Panel Lamp
>
> JIm,
> You'd have to ask Jim K4EAA.
>
> On Sun, 2009-08-09 at 21:55 -0400, Jim Stanicek wrote:
>
> > Are the lamps the same as are used in the Golddust twins (R599 and
> T599) ? I believe they look like littlefuses, and are rated at 12
> volts around 22 ma. Thanks
> >
> > 73, Jim AG3Y
> >
>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

22034. RE: [TS-520_820_530_830] Panel Lamp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-10 16:41:37 UTC
From: L K
Topic: 22001 Message: 22034

Sorry, Ken and not Jim.

Too many irons in the fire.

-----Original Message-----
From: "David King" <dking@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: 8/10/2009 11:35 AM
Subject: Re: [TS-520_820_530_830] Panel Lamp

It's Ken, K4EAA

His website is www.k4eaa.com

dk

Jim Stanicek wrote:
>
>
> Hi again, and thanks for the reference. I will look him up on QRZ.
>
> 73, Jim
>

[truncated by sender]

22035. RE: [TS-520_820_530_830] Panel Lamp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-10 16:41:39 UTC
From: L K
Topic: 22001 Message: 22035

Try ken@...

-----Original Message-----
From: "Jim Stanicek" <jimstan@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: 8/10/2009 8:45 AM
Subject: Re: [TS-520_820_530_830] Panel Lamp

Hi again, and thanks for the reference. I will look him up on QRZ.

73, Jim

----- Original Message -----
From: L Kendall
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, August 10, 2009 7:53 AM
Subject: Re: [TS-520_820_530_830] Panel Lamp

[truncated by sender]

22036. VFO520 with 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-11 12:27:08 UTC
From: jindynews
Topic: 22036 Message: 22036

Hi, Are there any issues in using the VFO520 with a 520s? I know there is a VFO520s however I picked up a VFO520 in remarkably good condition for a good price and would like to keep it. 73s Angelo VK2FJCM

22037. Re: [TS-520_820_530_830] VFO520 with 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-11 13:00:10 UTC
From: John Davidson
Topic: 22036 Message: 22037

I know there are some major differences between the 520 and "S" ie. adding 160M. I wonder if the VFO range is the same ????

--- On Tue, 8/11/09, jindynews <jindynews@...> wrote:

From: jindynews <jindynews@....au>
Subject: [TS-520_820_530_830] VFO520 with 520s
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, August 11, 2009, 8:27 AM

Hi, Are there any issues in using the VFO520 with a 520s? I know there is a VFO520s however I picked up a VFO520 in remarkably good condition for a good price and would like to keep it. 73s Angelo VK2FJCM

[Non-text portions of this message have been removed]

22038. RE: [TS-520_820_530_830] VFO520 with 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-11 17:13:54 UTC
From: Greg Anders
Topic: 22036 Message: 22038

The VFO range is the same. Adding 160M has nothing to do with the VFO. They just added an additional bandswitch segment the necessary heterodyne oscillator crystal and coils for the het/mixer/driver/antenna circuits. I would check the schematic of the 520 VFO with regard to the interface with the radio and compare it with the 52oS VFO. That's one way to know for sure.

Greg

KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of John Davidson
Sent: Tuesday, August 11, 2009 6:00 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] VFO520 with 520s

I know there are some major differences between the 520 and "S" ie. adding 160M. I wonder if the VFO range is the same ????

--- On Tue, 8/11/09, jindynews <jindynews@...<mailto:jindynews%40aapt.net.au>> wrote:

From: jindynews <jindynews@...<mailto:jindynews%40aapt.net.au>>
Subject: [TS-520_820_530_830] VFO520 with 520s
To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
Date: Tuesday, August 11, 2009, 8:27 AM

Hi, Are there any issues in using the VFO520 with a 520s? I know there is a VFO520s however I picked up a VFO520 in remarkably good condition for a good price and would like to keep it. 73s Angelo VK2FJCM

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

22039. Re: VFO520 with 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-11 19:51:17 UTC
From: w5rkl
Topic: 22036 Message: 22039

There is no difference between the VFO520 and VFO520S except for physical appearance.

When using the remote VFO remove the shorting plug or, if a short piece of wire is connected between pins 8 and 9, remove it. Pins 8 and 9 of the remote VFO socket on the 520 is only required when the remote VFO is not used.

Greg is right. One addition comment. The 520 VFOs do not change frequencies when the band switch is changed. The VFO520 and VFO820 plus the 520 and 820 series internal VFOs ALL operate on a fixed range of frequencies between 5.000Mhz and 5.500Mhz on ALL bands and ALL modes.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Greg Anders <greg.anders@...> wrote:
>
> The VFO range is the same. Adding 160M has nothing to do with the VFO. They just added an additional bandswitch segment the necessary heterodyne oscillator crystal and coils for the het/mixer/driver/antenna circuits. I would check the schematic of the 520 VFO with regard to the interface with the radio and compare it with the 52oS VFO. That's one way to know for sure.
>
> Greg
>
> KG6YV
>
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of John Davidson
> Sent: Tuesday, August 11, 2009 6:00 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] VFO520 with 520s
>
>
>
>
> I know there are some major differences between the 520 and "S" ie. adding 160M. I wonder if the VFO range is the same ????
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> --- On Tue, 8/11/09, jindynews <jindynews@...<mailto:jindynews%40aapt.net.au>> wrote:
>
> From: jindynews <jindynews@...<mailto:jindynews%40aapt.net.au>>
> Subject: [TS-520_820_530_830] VFO520 with 520s
> To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> Date: Tuesday, August 11, 2009, 8:27 AM
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> Hi, Are there any issues in using the VFO520 with a 520s? I know there is a VFO520s however I picked up a VFO520 in remarkably good condition for a good price and would like to keep it. 73s Angelo VK2FJCM
>
> [Non-text portions of this message have been removed]
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22040. RE: [TS-520_820_530_830] Re: VFO520 with 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-11 19:55:59 UTC
From: Greg Anders
Topic: 22036 Message: 22040

I just got my 520SE last week. Bought it with the VFO and speaker. The only surprise I found with regard to the remote VFO operation is that there is actually a switch position On the transceiver to zero beat the remote VFO with the transceiver VFO. Very nice indeed. I didn't realize anyone had this feature but I applaud Kenwood albeit 28 years after the fact. My radio was bought in 1981. So far I am very favorably impressed with it. I did replace the original S-2001 finals, the 12BY7A and the HV filter caps but other than that it appears to be in like new performing condition.

Greg

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
Sent: Tuesday, August 11, 2009 12:51 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: VFO520 with 520s

There is no difference between the VFO520 and VFO520S except for physical appearance.

When using the remote VFO remove the shorting plug or, if a short piece of wire is connected between pins 8 and 9, remove it. Pins 8 and 9 of the remote VFO socket on the 520 is only required when the remote VFO is not used.

Greg is right. One addition comment. The 520 VFOs do not change frequencies when the band switch is changed. The VFO520 and VFO820 plus the 520 and 820 series internal VFOs ALL operate on a fixed range of frequencies between 5.000Mhz and 5.500Mhz on ALL bands and ALL modes.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, Greg Anders <greg.anders@...> wrote:
>
> The VFO range is the same. Adding 160M has nothing to do with the VFO. They just added an additional bandswitch segment the necessary heterodyne oscillator crystal and coils for the het/mixer/driver/antenna circuits. I would check the schematic of the 520 VFO with regard to the interface with the radio and compare it with the 52oS VFO. That's one way to know for sure.
>
> Greg
>
> KG6YV
>
> From: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com> [mailto:TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>]

On Behalf Of John Davidson
> Sent: Tuesday, August 11, 2009 6:00 AM
> To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> Subject: Re: [TS-520_820_530_830] VFO520 with 520s
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>
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>
> From: jindynews <jindynews@...<mailto:jindynews%40aapt.net.au>>
> Subject: [TS-520_820_530_830] VFO520 with 520s
> To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com>
> Date: Tuesday, August 11, 2009, 8:27 AM
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> [Non-text portions of this message have been removed]
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22041. Re: VFO520 with 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-12 01:58:00 UTC
From: w5rkl
Topic: 22036 Message: 22041

Greg,

Glad to hear you are enjoying your 520S and VFO520.

The TS-520S and VFO-520 combination allows you to operate both transmit and receive with either the internal or external VFO. The combination also allows you to operate split, transmit on one frequency using the internal VFO and receiving on another frequency using the external VFO or vice verse, all depending on the position of the remote VFO's Function switch. Of course this feature can only be performed on the same band AND within a certain limit in frequency separation.

The VFO zero beat function is, as you say, a nice feature and is included in the 520 and 820 series transceivers and remote VFOs.

Enjoy Greg.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Greg Anders <greg.anders@...> wrote:
>
> I just got my 520SE last week. Bought it with the VFO and speaker. The only surprise I found with regard to the remote VFO operation is that there is actually a switch position
> On the transceiver to zero beat the remote VFO with the transceiver VFO. Very nice indeed. I didn't realize anyone had this feature but I applaud Kenwood albeit 28 years after the fact. My radio was bought in 1981. So far I am very favorably impressed with it. I did replace the original S-2001 finals, the 12BY7A and the HV filter caps but other than that it appears to be in like new performing condition.
>
> Greg
>
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
> Sent: Tuesday, August 11, 2009 12:51 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: VFO520 with 520s
>
>
>
> There is no difference between the VFO520 and VFO520S except for
> physical appearance.
>
> When using the remote VFO remove the shorting plug or, if a short

> piece of wire is connected between pins 8 and 9, remove it. Pins
> 8 and 9 of the remote VFO socket on the 520 is only required when
> the remote VFO is not used.
>
> Greg is right. One addition comment. The 520 VFOs do not change
> frequencies when the band switch is changed. The VFO520 and
> VFO820 plus the 520 and 820 series internal VFOs ALL operate on
> a fixed range of frequencies between 5.000Mhz and 5.500Mhz on ALL
> bands and ALL modes.
>
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>,
Greg Anders <greg.anders@> wrote:
> >
> > The VFO range is the same. Adding 160M has nothing to do with the VFO. They just added
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regard to the interface with the radio and compare it with the 52oS VFO. That's one way to
know for sure.
> >
> > Greg
> >
> > KG6YV
> >
> > From: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
[mailto:TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>]
On Behalf Of John Davidson
> > Sent: Tuesday, August 11, 2009 6:00 AM
> > To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> > Subject: Re: [TS-520_820_530_830] VFO520 with 520s
> >
> >
> >
> > I know there are some major differences between the 520 and "S" ie. adding 160M. I
wonder if the VFO range is the same ????
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> > --- On Tue, 8/11/09, jindynews <jindynews@<mailto:jindynews%40aapt.net.au>> wrote:
> >
> > From: jindynews <jindynews@<mailto:jindynews%40aapt.net.au>>
> > Subject: [TS-520_820_530_830] VFO520 with 520s
> > To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com><ma
ilto:TS-520_820_530_830%40yahoogroups.com>
> > Date: Tuesday, August 11, 2009, 8:27 AM
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> >
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to keep it. 73s Angelo VK2FJCM

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22042. Re: [TS-520_820_530_830] Re: VFO520 with 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-12 02:12:21 UTC
From: Lou Blasco
Topic: 22036 Message: 22042

I've just tried that - what a great feature, I had no idea it was there. I guess you can never read the manual too many times.

Lou
VK3ALB

At 11:58 AM 12/08/2009, you wrote:
>The VFO zero beat function is, as you say, a nice feature and
>is included in the 520 and 820 series transceivers and remote
>VFOs.

22043. RE: [TS-520_820_530_830] Re: VFO520 with 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-12 02:46:10 UTC
From: Greg Anders
Topic: 22036 Message: 22043

Like I said, Mike

It surprised me to find the feature. I had an 80S with their digital remote VFO and it never had that. I guess its because they thought you wouldn't need it with a digital readout on both VFO's.

A buddy is dropping of an octal male plug at work tomorrow so I can use my linear with the 520SE. That will be good too....
Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
Sent: Tuesday, August 11, 2009 6:58 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: VFO520 with 520s

Greg,

Glad to hear you are enjoying your 520S and VFO520.

The TS-520S and VFO-520 combination allows you to operate both
transmit and receive with either the internal or external
VFO. The combination also allows you to operate split,
transmit on one frequency using the internal VFO and receiving
on another frequency using the external VFO or vice
verse, all depending on the position of the remote VFO's
Function switch. Of course this feature can only be performed
on the same band AND within a certain limit in frequency
separation.

The VFO zero beat function is, as you say, a nice feature and
is included in the 520 and 820 series transceivers and remote
VFOs.

Enjoy Greg.

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, Greg Anders <greg.anders@...> wrote:
>
> I just got my 520SE last week. Bought it with the VFO and speaker. The only surprise I found with regard to the remote VFO operation is that there is actually a switch position
> On the transceiver to zero beat the remote VFO with the transceiver VFO. Very nice indeed. I didn't realize anyone had this feature but I applaud Kenwood albeit 28 years after the fact. My radio was bought in 1981. So far I am very favorably impressed with it.

I did replace the original S-2001 finals, the 12BY7A and the HV filter caps but other than that it appears to be in like new performing condition.
>
> Greg
>
> From: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com> [mailto:TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of w5rkl
> Sent: Tuesday, August 11, 2009 12:51 PM
> To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> Subject: [TS-520_820_530_830] Re: VFO520 with 520s
>
>
>
> There is no difference between the VFO520 and VFO520S except for
> physical appearance.
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> When using the remote VFO remove the shorting plug or, if a short
> piece of wire is connected between pins 8 and 9, remove it. Pins
> 8 and 9 of the remote VFO socket on the 520 is only required when
> the remote VFO is not used.
>
> Greg is right. One addition comment. The 520 VFOs do not change
> frequencies when the band switch is changed. The VFO520 and
> VFO820 plus the 520 and 820 series internal VFOs ALL operate on
> a fixed range of frequencies between 5.000Mhz and 5.500Mhz on ALL
> bands and ALL modes.
>
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com>, Greg Anders <greg.anders@> wrote:
> >
> > The VFO range is the same. Adding 160M has nothing to do with the VFO. They just added an additional bandswitch segment the necessary heterodyne oscillator crystal and coils for the het/mixer/driver/antenna circuits. I would check the schematic of the 520 VFO with regard to the interface with the radio and compare it with the 52oS VFO. That's one way to know for sure.
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> > Greg
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> > KG6YV
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> > From: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com> [mailto:TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of John Davidson
> > Sent: Tuesday, August 11, 2009 6:00 AM
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> > Subject: Re: [TS-520_820_530_830] VFO520 with 520s

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> > Subject: [TS-520_820_530_830] VFO520 with 520s
> > To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com>
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22044. Re: VFO520 with 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-12 12:52:15 UTC
From: jindynews
Topic: 22036 Message: 22044

Thanks for all the replies.
Angelo VK2FJCM

--- In TS-520_820_530_830@yahoogroups.com, Greg Anders <greg.anders@...> wrote:
>
> Like I said, Mike
>
> It surprised me to find the feature. I had an 80S with their digital remote VFO and it never had that. I guess its because they thought you wouldn't need it with a digital readout on both VFO's.
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> A buddy is dropping of an octal male plug at work tomorrow so I can use my linear with the 520SE. That will be good too....
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> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
> Sent: Tuesday, August 11, 2009 6:58 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: VFO520 with 520s
>
>
>
> Greg,
>
> Glad to hear you are enjoying your 520S and VFO520.
>
> The TS-520S and VFO-520 combination allows you to operate both
> transmit and receive with either the internal or external
> VFO. The combination also allows you to operate split,
> transmit on one frequency using the internal VFO and receiving
> on another frequency using the external VFO or vice
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> Function switch. Of course this feature can only be performed
> on the same band AND within a certain limit in frequency
> separation.
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> The VFO zero beat function is, as you say, a nice feature and
> is included in the 520 and 820 series transceivers and remote
> VFOs.
>
> Enjoy Greg.
>
> Mike W5RKL

>
> --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, Greg Anders <greg.anders@> wrote:
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> > Subject: [TS-520_820_530_830] Re: VFO520 with 520s
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> > Mike W5RKL
> >
> > --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com> <mailto:TS-520_820_530_830%40yahoogroups.com>, Greg Anders <greg.anders@> wrote:
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wonder if the VFO range is the same ????
> > >
> > > --- On Tue, 8/11/09, jindynews <jindynews@<mailto:jindynews%40aapt.net.au>> wrote:
> > >
> > > From: jindynews <jindynews@<mailto:jindynews%40aapt.net.au>>
> > > Subject: [TS-520_820_530_830] VFO520 with 520s
> > > To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com><
mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com>
> > > Date: Tuesday, August 11, 2009, 8:27 AM
> > >
> > >
> > >
> > > Hi, Are there any issues in using the VFO520 with a 520s? I know there is a VFO520s
however I picked up a VFO520 in remarkably good condition for a good price and would like
to keep it. 73s Angelo VK2FJCM
> > >
> > > [Non-text portions of this message have been removed]
> > >
> > >
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>

22045. Re: VFO520 with 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-12 13:25:53 UTC
From: w5rkl
Topic: 22036 Message: 22045

Greg and others,

Yes, you are correct, the TS-530 and TS-830 when used with the VFO-230 or VFO-240 do not have the same RMT CAL feature the TS-520 and TS-820 when used with the VFO-520 and VFO-820 have.

The VFO-230 and VFO-240, when used with the TS-530 and TS-830 transceivers, have a feature called "T-F SET". Consult the VFO-230 and VFO-240 operator's manual for further details on this and other features.

One last comment which I think is important since a number of questions have cropped up on this and other ham forums inquiring about remote VFO compatibilities. Questions such as:

"I found a VFO-230 on eBay. Can I connect the VFO-230 to my TS-820?"

or

"I have a TS-530S. I saw an ad for a VFO-520 on the Internet for a cheap price. Can I connect the VFO-520 to my TS-530?"

The answer to both questions is "No" and here is "one" of the reasons why:

1. The TS-520 and TS-820 internal AND remote VFO frequencies operate between 5.000Mhz and 5.500Mhz.

2. The TS-530 and TS-830 internal AND remote VFO frequencies operate between 5.500Mhz and 6.000Mhz.

The bottom line is:

1. The VFO-520 and VFO-820 are ONLY compatible with the TS-520 and TS-820 transceivers.

2. The VFO-230 and VFO-240 are ONLY compatible with the TS-530 and TS-830 transceivers.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Greg Anders <greg.anders@...> wrote:
>
> Like I said, Mike
>
> It surprised me to find the feature. I had an 80S with their digital remote VFO and it never had that. I guess its because they thought you wouldn't need it with a digital

readout on both VFO's.
>
> A buddy is dropping of an octal male plug at work tomorrow so I can use my linear with the 520SE. That will be good too....
> Greg
> KG6YV
>
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
> Sent: Tuesday, August 11, 2009 6:58 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: VFO520 with 520s
>
>
>
> Greg,
>
> Glad to hear you are enjoying your 520S and VFO520.
>
> The TS-520S and VFO-520 combination allows you to operate both
> transmit and receive with either the internal or external
> VFO. The combination also allows you to operate split,
> transmit on one frequency using the internal VFO and receiving
> on another frequency using the external VFO or vice
> verse, all depending on the position of the remote VFO's
> Function switch. Of course this feature can only be performed
> on the same band AND within a certain limit in frequency
> separation.
>
> The VFO zero beat function is, as you say, a nice feature and
> is included in the 520 and 820 series transceivers and remote
> VFOs.
>
> Enjoy Greg.
>
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, Greg Anders <greg.anders@> wrote:
> >
> > I just got my 520SE last week. Bought it with the VFO and speaker. The only surprise I found with regard to the remote VFO operation is that there is actually a switch position
> > On the transceiver to zero beat the remote VFO with the transceiver VFO. Very nice indeed. I didn't realize anyone had this feature but I applaud Kenwood albeit 28 years after the fact. My radio was bought in 1981. So far I am very favorably impressed with it. I did replace the original S-2001 finals, the 12BY7A and the HV filter caps but other than that it appears to be in like new performing condition.
> >
> > Greg
> >
> > From: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>

[mailto:TS-520_820_530_830@...m<mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of w5rkl
> > Sent: Tuesday, August 11, 2009 12:51 PM
> > To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> > Subject: [TS-520_820_530_830] Re: VFO520 with 520s
> >
> >
> >
> > There is no difference between the VFO520 and VFO520S except for
> > physical appearance.
> >
> > When using the remote VFO remove the shorting plug or, if a short
> > piece of wire is connected between pins 8 and 9, remove it. Pins
> > 8 and 9 of the remote VFO socket on the 520 is only required when
> > the remote VFO is not used.
> >
> > Greg is right. One addition comment. The 520 VFOs do not change
> > frequencies when the band switch is changed. The VFO520 and
> > VFO820 plus the 520 and 820 series internal VFOs ALL operate on
> > a fixed range of frequencies between 5.000Mhz and 5.500Mhz on ALL
> > bands and ALL modes.
> >
> > Mike W5RKL
> >
> > --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
<mailto:TS-520_820_530_830%40yahoogroups.com>, Greg Anders <greg.anders@> wrote:
> > >
> > > The VFO range is the same. Adding 160M has nothing to do with the VFO. They just added an additional bandswitch segment the necessary heterodyne oscillator crystal and coils for the het/mixer/driver/antenna circuits. I would check the schematic of the 520 VFO with regard to the interface with the radio and compare it with the 52oS VFO. That's one way to know for sure.
> > >
> > > Greg
> > >
> > > KG6YV
> > >
> > > From: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com
><mailto:TS-520_820_530_830%40yahoogroups.com> [mailto:TS-520_820_530_830@yahoogroups.com<
mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com>]
On Behalf Of John Davidson
> > > Sent: Tuesday, August 11, 2009 6:00 AM
> > > To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com><
mailto:TS-520_820_530_830%40yahoogroups.com>
> > > Subject: Re: [TS-520_820_530_830] VFO520 with 520s
> > >
> > >
> > >
> > > I know there are some major differences between the 520 and "S" ie. adding 160M. I wonder if the VFO range is the same ????
> > >

> > > --- On Tue, 8/11/09, jindynews <jindynews@<mailto:jindynews%40aapt.net.au>> wrote:
> > >
> > > From: jindynews <jindynews@<mailto:jindynews%40aapt.net.au>>
> > > Subject: [TS-520_820_530_830] VFO520 with 520s
> > > To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com><
mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com>
> > > Date: Tuesday, August 11, 2009, 8:27 AM
> > >
> > >
> > >
> > > Hi, Are there any issues in using the VFO520 with a 520s? I know there is a VFO520s
however I picked up a VFO520 in remarkably good condition for a good price and would like
to keep it. 73s Angelo VK2FJCM
> > >
> > > [Non-text portions of this message have been removed]
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>

22046. Coax Conflict - TS-520S IF modification for SM-220 Pan Adaptor

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-13 03:24:06 UTC
From: unnorml
Topic: 22046 Message: 22046

Greetings all,

I was going to modify my TS-520S so as to use my SM-220's BS-5 pan adapter for the pan display as per pgs. 11 & 20 of the SM-220 Manual.
Here lies my confusion, the modification calls for the installation of "RG-174/U 75 ohm miniature coaxial cable".
To my recent knowledge RG-174/U coax is 50 ohm coax.
I've searched hi & low to see if someone out there has performed this mod and what type of cable is required.

I thought that maybe it was a misprint but...
I have (2) different manuals, one newer than the other and the both state the "RG-174/U 75 ohm miniature coaxial cable".

Is it RG-174/U or is it 75 ohm coax?
Closest thing I can find with 75 ohm impedance is RG-179.
I have some RG-174 to use but am hesitant due to not knowing if 50 or 75 ohm coax is required.

Any and all suggestions are extremely welcome.

73,

Mike - KI4FDH

22047. Re: [TS-520_820_530_830] Coax Conflict - TS-520S IF modification for SM-220 Pan Adaptor

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-13 07:25:03 UTC
From: Lou Blasco
Topic: 22046 Message: 22047

Hi Mike,

You're right, RG174 has a nominal impedance of 50 ohms. The manual is wrong.

http://www.generalcable.com/NR/rdonlyres/9C48F422-02D2-4062-B078-3C3BCF2D14A9/0/Pg087_RG174U.pdf

Go ahead and use your 174 coax. At the cable lengths involved the
nominal impedance will make no practical difference.

Regards

Lou
VK3ALB

At 01:24 PM 13/08/2009, you wrote:
>Greetings all,
>
>I was going to modify my TS-520S so as to use my SM-220's BS-5 pan
>adapter for the pan display as per pgs. 11 & 20 of the SM-220 Manual.
>Here lies my confusion, the modification calls for the installation
>of "RG-174/U 75 ohm miniature coaxial cable".
>To my recent knowledge RG-174/U coax is 50 ohm coax.
>I've searched hi & low to see if someone out there has performed
>this mod and what type of cable is required.
>
>I thought that maybe it was a misprint but...
>I have (2) different manuals, one newer than the other and the both
>state the "RG-174/U 75 ohm miniature coaxial cable".
>
>Is it RG-174/U or is it 75 ohm coax?
>Closest thing I can find with 75 ohm impedance is RG-179.
>I have some RG-174 to use but am hesitant due to not knowing if 50
>or 75 ohm coax is required.
>
>Any and all suggestions are extremely welcome.
>
>73,
>
>Mike - KI4FDH
>

22048. Re: TS-820S parts to go..!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-13 14:19:09 UTC
From: rcbuckiii
Topic: 21905 Message: 22048

Eric,

I could use a couple of the toggle switches if you have them. My Send/Rec paddle is broken. What is the cost with shipping to Phoenix, AZ?

Ray
AB7HE

--- In TS-520_820_530_830@yahoogroups.com, "Bob" <n4fv@...> wrote:
>
> Still have the freq counter unit? Also the main VFO knob. Shipping to 37745?
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "pissousky" <pissousky@> wrote:
> >
> > Hello guys,I am not here as a business but I thought that someone might need parts for whatever repairs so I tought I would offer them to the group first...I have a TS-820S here that I used the power transformer for another radio...All the boards,af-avr-rf-if-pll-vox-rectifier-HV-rotary switches-ect.. so as coil pack with band switch,relays,display,meter,knobs,driver and finals,etc...are in great working order,tell me which part you need and I'll give you a price....thanks (email:erpi1182@)
> >
>

22049. Re: [TS-520_820_530_830] Coax Conflict - TS-520S IF modification for SM-220 Pan Adaptor

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-13 13:54:29 UTC
From: John Davidson
Topic: 22046 Message: 22049

Rg174 is 50 ohm cable but such a short run should make no difference between a miniture 75 or 50 ohm line !!

--- On Wed, 8/12/09, unnorml <unnorml@...> wrote:

From: unnorml <unnorml@...>
Subject: [TS-520_820_530_830] Coax Conflict - TS-520S IF modification for SM-220 Pan Adaptor
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, August 12, 2009, 11:24 PM

Greetings all,

I was going to modify my TS-520S so as to use my SM-220's BS-5 pan adapter for the pan display as per pgs. 11 & 20 of the SM-220 Manual.
Here lies my confusion, the modification calls for the installation of "RG-174/U 75 ohm miniature coaxial cable".
To my recent knowledge RG-174/U coax is 50 ohm coax.
I've searched hi & low to see if someone out there has performed this mod and what type of cable is required.

I thought that maybe it was a misprint but...
I have (2) different manuals, one newer than the other and the both state the "RG-174/U 75 ohm miniature coaxial cable".

Is it RG-174/U or is it 75 ohm coax?
Closest thing I can find with 75 ohm impedance is RG-179.
I have some RG-174 to use but am hesitant due to not knowing if 50 or 75 ohm coax is required.

Any and all suggestions are extremely welcome.

73,

Mike - KI4FDH

[Non-text portions of this message have been removed]

22050. Dating TS-830S by S/N

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-13 17:03:44 UTC
From: L K
Topic: 22050 Message: 22050

Is there a source online to date my TS-830S by its serial number?

Probably not a new question, I realize.

But I did not find any with Google.

TIA
73
Larry

22051. Re: [TS-520_820_530_830] Dating TS-830S by S/N

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-13 19:18:39 UTC
From: Les Zwiebel WB6ORZ
Topic: 22050 Message: 22051

I'd like to know that also. Somewhere around here I have the formula for other rigs, like the TS 940. Not even sure if the code format is the same.
(((((73)))))
Les
---===WB6ORZ===---

----- Original Message -----
From: L K
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, August 13, 2009 10:03 AM
Subject: [TS-520_820_530_830] Dating TS-830S by S/N

Is there a source online to date my TS-830S by its serial number?

Probably not a new question, I realize.

But I did not find any with Google.

TIA
73
Larry

[Non-text portions of this message have been removed]

22052. Mic mystery

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-14 15:34:48 UTC
From: Bob Singer
Topic: 22052 Message: 22052

OK, so after all the posts on the Astatic D104 with the G base, I have a question about wiring. For the 520S, the manual shows mic audio goes to pin 1, mic key is pin 2&3 and audio ground (shield) is pin 4. On the diagram I downloaded for the wiring on the D104 G base, it shows the mic key is a SPST switch. In the open position, it connects the mic audio wire to ground (the center position of the mic key switch is ground) and in the closed position, it grounds the red wire. There is no seperate mic key circuit. I thought the mic key had to connect to pin 2 and 3 on the 520S. Will the G base work the way it comes factory wired on the radio?

Thanks.
Bob KD?EEZ

22053. Re : [TS-520_820_530_830] Re: TS-820S parts to go..!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-14 08:17:28 UTC
From: Eric P.
Topic: 21905 Message: 22053

Hi,email me direct to: erpi1182@...

_____
De : rcbuckiii <rcbuckiii@...>
À : TS-520_820_530_830@yahoogroups.com
Envoyé le : jeudi 13 août 2009, 10 h 19 min 09 s
Objet : [TS-520_820_530_830] Re: TS-820S parts to go..!

Eric,

I could use a couple of the toggle switches if you have them. My Send/Rec paddle is broken. What is the cost with shipping to Phoenix, AZ?

Ray
AB7HE

--- In TS-520_820_530_ 830@yahoogroups. com, "Bob" <n4fv@...> wrote:
>
> Still have the freq counter unit? Also the main VFO knob. Shipping to 37745?
>
>
> --- In TS-520_820_530_ 830@yahoogroups. com, "pissousky" <pissousky@> wrote:
> >
> > Hello guys,I am not here as a business but I thought that someone might need parts for whatever repairs so I tought I would offer them to the group first...I have a TS-820S here that I used the power transformer for another radio...All the boards,af-avr- rf-if-pll-vox-rectifier- HV-rotary switches-ect. . so as coil pack with band switch,relays, display,meter, knobs,driver and finals,etc.. .are in great working order,tell me which part you need and I'll give you a price....thanks (email:erpi1182@)
> >
>

Découvrez les photos les plus intéressantes du jour.
http://www.flickr.com/explore/interesting/7days/

[Non-text portions of this message have been removed]

22054. Re: [TS-520_820_530_830] Mic mystery

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-14 16:20:04 UTC
From: Gordon JC Pearce
Topic: 22052 Message: 22054

On Fri, 2009-08-14 at 10:34 -0500, Bob Singer wrote:
> OK, so after all the posts on the Astatic D104 with the G base, I have a
> question about wiring. For the 520S, the manual shows mic audio goes to
> pin 1, mic key is pin 2&3 and audio ground (shield) is pin 4. On the
> diagram I downloaded for the wiring on the D104 G base, it shows the mic
> key is a SPST switch. In the open position, it connects the mic audio
> wire to ground (the center position of the mic key switch is ground) and
> in the closed position, it grounds the red wire. There is no seperate
> mic key circuit. I thought the mic key had to connect to pin 2 and 3 on
> the 520S. Will the G base work the way it comes factory wired on the radio?
>
> Thanks.
> Bob KDØEEZ

Internally the two grounds are connected together anyway. What you
probably have there is something that shorts across the mike with the
key up, and shorts the PTT line to ground with the key down. As long as
you've got the plug wired up correctly with regards to the mike and PTT
line, it should be okay.

Gordon 2M0YEQ

22055. RE: [TS-520_820_530_830] Mic mystery

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-14 16:46:26 UTC
From: Greg Anders
Topic: 22052 Message: 22055

FYI,

If the D-104 is an amplified version Astatic cuts off the B+ (9v battery) when the PTT is not engaged to preserve battery life as well. I never had a problem using the PTT as specified in the Astatic drawing with any transmitter/transceiver. Astatic’s PTT is open on receive/closed to ground on transmit.

Very simple,

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Gordon JC Pearce
Sent: Friday, August 14, 2009 9:20 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Mic mystery

On Fri, 2009-08-14 at 10:34 -0500, Bob Singer wrote:
> OK, so after all the posts on the Astatic D104 with the G base, I have a
> question about wiring. For the 520S, the manual shows mic audio goes to
> pin 1, mic key is pin 2&3 and audio ground (shield) is pin 4. On the
> diagram I downloaded for the wiring on the D104 G base, it shows the mic
> key is a SPST switch. In the open position, it connects the mic audio
> wire to ground (the center position of the mic key switch is ground) and
> in the closed position, it grounds the red wire. There is no seperate
> mic key circuit. I thought the mic key had to connect to pin 2 and 3 on
> the 520S. Will the G base work the way it comes factory wired on the radio?
>
> Thanks.
> Bob KDØEEZ

Internally the two grounds are connected together anyway. What you
probably have there is something that shorts across the mike with the
key up, and shorts the PTT line to ground with the key down. As long as
you've got the plug wired up correctly with regards to the mike and PTT
line, it should be okay.

Gordon 2M0YEQ

[Non-text portions of this message have been removed]

22056. Re: [TS-520_820_530_830] Mic mystery

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-14 17:04:27 UTC
From: Bob Singer
Topic: 22052 Message: 22056

Ok but there is no connection to pin 3 that will short pin 2&3 together
on the 520S that I can tell. I was under the understanding that they
had to be shorted together and not one to chassis ground.

Bob

Gordon JC Pearce wrote:
>
>
> On Fri, 2009-08-14 at 10:34 -0500, Bob Singer wrote:
> > OK, so after all the posts on the Astatic D104 with the G base, I
> have a
> > question about wiring. For the 520S, the manual shows mic audio goes to
> > pin 1, mic key is pin 2&3 and audio ground (shield) is pin 4. On the
> > diagram I downloaded for the wiring on the D104 G base, it shows the
> mic
> > key is a SPST switch. In the open position, it connects the mic audio
> > wire to ground (the center position of the mic key switch is ground)
> and
> > in the closed position, it grounds the red wire. There is no seperate
> > mic key circuit. I thought the mic key had to connect to pin 2 and 3 on
> > the 520S. Will the G base work the way it comes factory wired on the
> radio?
> >
> > Thanks.
> > Bob KDØEEZ
>
> Internally the two grounds are connected together anyway. What you
> probably have there is something that shorts across the mike with the
> key up, and shorts the PTT line to ground with the key down. As long as
> you've got the plug wired up correctly with regards to the mike and PTT
> line, it should be okay.
>
> Gordon 2M0YEQ
>
>

22057. Re: [TS-520_820_530_830] Mic mystery

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-14 17:35:19 UTC
From: Bob Singer
Topic: 22052 Message: 22057

Non-amplified version, G base.

Bob

Greg Anders wrote:
>
>
> FYI,
>
> If the D-104 is an amplified version Astatic cuts off the B+ (9v
> battery) when the PTT is not engaged to preserve battery life as well.
> I never had a problem using the PTT as specified in the Astatic
> drawing with any transmitter/transceiver. Astatic's PTT is open on
> receive/closed to ground on transmit.
>
> Very simple,
>
> Greg
> KG6YV
>
> From: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> [mailto:TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of Gordon JC
> Pearce
> Sent: Friday, August 14, 2009 9:20 AM
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Subject: Re: [TS-520_820_530_830] Mic mystery
>
>
>
> On Fri, 2009-08-14 at 10:34 -0500, Bob Singer wrote:
> > OK, so after all the posts on the Astatic D104 with the G base, I
> have a
> > question about wiring. For the 520S, the manual shows mic audio goes to
> > pin 1, mic key is pin 2&3 and audio ground (shield) is pin 4. On the
> > diagram I downloaded for the wiring on the D104 G base, it shows the
> mic
> > key is a SPST switch. In the open position, it connects the mic audio
> > wire to ground (the center position of the mic key switch is ground)
> and
> > in the closed position, it grounds the red wire. There is no seperate
> > mic key circuit. I thought the mic key had to connect to pin 2 and 3 on
> > the 520S. Will the G base work the way it comes factory wired on the

> radio?
> >
> > Thanks.
> > Bob KDØEEZ
>
> Internally the two grounds are connected together anyway. What you
> probably have there is something that shorts across the mike with the
> key up, and shorts the PTT line to ground with the key down. As long as
> you've got the plug wired up correctly with regards to the mike and PTT
> line, it should be okay.
>
> Gordon 2M0YEQ
>
>
> [Non-text portions of this message have been removed]
>
>

22058. RE: [TS-520_820_530_830] Mic mystery

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-14 17:52:28 UTC
From: Greg Anders
Topic: 22052 Message: 22058

Should work fine, the unamplified D-104 is Hi-Z. If the response is tilted too much toward the high end of the audio passband you could hang a 1meg resistor on the audio line to ground inside the base if you want to tone it down. D-104's and other crystal mics think they are looking into a capacitive load when the mic stage input is <1meg. It looks like the transistor in the 52-SE has a 22k resistor to ground on the base input so it may sound a bit bright.

FYI,

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Bob Singer
Sent: Friday, August 14, 2009 10:35 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Mic mystery

Non-amplified version, G base.

Bob

Greg Anders wrote:
>
>
> FYI,
>
> If the D-104 is an amplified version Astatic cuts off the B+ (9v
> battery) when the PTT is not engaged to preserve battery life as well.
> I never had a problem using the PTT as specified in the Astatic
> drawing with any transmitter/transceiver. Astatic's PTT is open on
> receive/closed to ground on transmit.
>
> Very simple,
>
> Greg
> KG6YV
>
> From: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> [mailto:TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of Gordon JC
> Pearce
> Sent: Friday, August 14, 2009 9:20 AM
> To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com>

> Subject: Re: [TS-520_820_530_830] Mic mystery
>
>
>
> On Fri, 2009-08-14 at 10:34 -0500, Bob Singer wrote:
> > OK, so after all the posts on the Astatic D104 with the G base, I
> have a
> > question about wiring. For the 520S, the manual shows mic audio goes to
> > pin 1, mic key is pin 2&3 and audio ground (shield) is pin 4. On the
> > diagram I downloaded for the wiring on the D104 G base, it shows the
> mic
> > key is a SPST switch. In the open position, it connects the mic audio
> > wire to ground (the center position of the mic key switch is ground)
> and
> > in the closed position, it grounds the red wire. There is no seperate
> > mic key circuit. I thought the mic key had to connect to pin 2 and 3 on
> > the 520S. Will the G base work the way it comes factory wired on the
> radio?
> >
> > Thanks.
> > Bob KDØEEZ
>
> Internally the two grounds are connected together anyway. What you
> probably have there is something that shorts across the mike with the
> key up, and shorts the PTT line to ground with the key down. As long as
> you've got the plug wired up correctly with regards to the mike and PTT
> line, it should be okay.
>
> Gordon 2M0YEQ
>
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

22059. Re: [TS-520_820_530_830] Mic mystery

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-14 18:21:47 UTC
From: Gordon JC Pearce
Topic: 22052 Message: 22059

On Fri, 2009-08-14 at 12:04 -0500, Bob Singer wrote:
> Ok but there is no connection to pin 3 that will short pin 2&3 together
> on the 520S that I can tell. I was under the understanding that they
> had to be shorted together and not one to chassis ground.
>
> Bob

On my TS-520 both grounds are connected together, and then back to
chassis ground.

Gordon 2M0YEQ

22060. odd power problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-14 18:22:04 UTC
From: wm7d
Topic: 22060 Message: 22060

I've picked up a 1976 vintage TS-520 (I missed my last one), and I've run into an odd power output problem.

It's putting out 15W on 80m, 30W on 40M, 55W on 20M, and 90W on 15M and 10M. That's exactly opposite from what I would expect. I've checked the tubes, the bias current, the plate current, and the HV. All are as expected. I've followed Clif's alignment procedure and the power output went up a little. The receiver appears to be working fine.

So, I'm now looking for tips for troubleshooting this. Any suggestions?

--Mark

22061. Re: [TS-520_820_530_830] Mic mystery

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-14 18:41:33 UTC
From: martin
Topic: 22052 Message: 22061

Hi Bob. The TS-520S requires that the PTT circuit be totally separate
from the audio shield. You may have to change the wiring inside the
base of the mic. It is OK for the mic wire to be connected all the
time. In fact, it has to be if you ever would want to use VOX (I do
not recommend using VOX at all).The PTT switch in the mic has to
connect pins 2 and 3 on the mic plug, without either of these wires
being connected to the audio shield.

The D-104 mics were made for CB radios, and they needed to be wired
differently.

TTYL

Bob Singer wrote:
> OK, so after all the posts on the Astatic D104 with the G base, I have a
> question about wiring. For the 520S, the manual shows mic audio goes to
> pin 1, mic key is pin 2&3 and audio ground (shield) is pin 4. On the
> diagram I downloaded for the wiring on the D104 G base, it shows the mic
> key is a SPST switch. In the open position, it connects the mic audio
> wire to ground (the center position of the mic key switch is ground) and
> in the closed position, it grounds the red wire. There is no seperate
> mic key circuit. I thought the mic key had to connect to pin 2 and 3 on
> the 520S. Will the G base work the way it comes factory wired on the radio?
>
> Thanks.
> Bob KD?EEZ
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

22062. TS-830S Gold power output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-14 18:46:38 UTC
From: L Kendall
Topic: 22060 Message: 22062

What are typical power output levels for the TS-830S?

Before someone says it, YES, I am well aware the difference between 85 Watts and 115 Watts is only 1.5 dB or so.

With a Bird meter and 250H element I'm getting (after tuning, dipping, etc, of course) around 85 Watts max at 3.5 MHz and 95 Watts at 14.2 MHz.

It is stable output and does not decay. (I don't keep it keyed down for more than 5 seconds at max power.) From this I infer the tubes are probably OK.

I have verified the cables are not lossy.

It could be the Bird meter or element, and I have not ruled it out.

TIA
73
LK

[Non-text portions of this message have been removed]

22063. Re: [TS-520_820_530_830] Mic mystery

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-14 19:09:06 UTC
From: Bob Singer
Topic: 22052 Message: 22063

OK, Thanks.

Bob

Gordon JC Pearce wrote:
>
>
> On Fri, 2009-08-14 at 12:04 -0500, Bob Singer wrote:
> > Ok but there is no connection to pin 3 that will short pin 2&3 together
> > on the 520S that I can tell. I was under the understanding that they
> > had to be shorted together and not one to chassis ground.
> >
> > Bob
>
> On my TS-520 both grounds are connected together, and then back to
> chassis ground.
>
> Gordon 2M0YEQ
>
>

22064. Re: [TS-520_820_530_830] Mic mystery

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-14 19:17:58 UTC
From: Bob Singer
Topic: 22052 Message: 22064

Ok. I will have to put a 4 lug terminal under the base instead of the 3 lug one so I can isolate the mic key circuit. That's what I thought.

Bob
kd0eez

martin wrote:
>
>
> Hi Bob. The TS-520S requires that the PTT circuit be totally separate
> from the audio shield. You may have to change the wiring inside the
> base of the mic. It is OK for the mic wire to be connected all the
> time. In fact, it has to be if you ever would want to use VOX (I do
> not recommend using VOX at all).The PTT switch in the mic has to
> connect pins 2 and 3 on the mic plug, without either of these wires
> being connected to the audio shield.
>
> The D-104 mics were made for CB radios, and they needed to be wired
> differently.
>
> TTYL
>
> Bob Singer wrote:
> > OK, so after all the posts on the Astatic D104 with the G base, I
> have a
> > question about wiring. For the 520S, the manual shows mic audio goes to
> > pin 1, mic key is pin 2&3 and audio ground (shield) is pin 4. On the
> > diagram I downloaded for the wiring on the D104 G base, it shows the
> mic
> > key is a SPST switch. In the open position, it connects the mic audio
> > wire to ground (the center position of the mic key switch is ground)
> and
> > in the closed position, it grounds the red wire. There is no seperate
> > mic key circuit. I thought the mic key had to connect to pin 2 and 3 on
> > the 520S. Will the G base work the way it comes factory wired on the
> radio?
> >
> > Thanks.
> > Bob KD?EEZ
> >
>
> --
> CUL8R
>
> KBOHAE kb0hae@... <mailto:kb0hae%40mchsi.com> Martin Campbell

>
> A Satisfied Sidux Linux user! To get Sidux go to:
> www.sidux.com/index.html
> "Protect your digital freedom and privacy, eliminate DRM, learn more
> at http://www.defectivebydesign.org/what_is_drm
> <http://www.defectivebydesign.org/what_is_drm>"
>
>

22065. Re: [TS-520_820_530_830] odd power problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-14 20:14:48 UTC
From: Dave ve3wej
Topic: 22060 Message: 22065

is this into a dummy load, or live antenna.....

----- Original Message -----
From: "wm7d" <mdowning@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, August 14, 2009 2:22 PM
Subject: [TS-520_820_530_830] odd power problem

> I've picked up a 1976 vintage TS-520 (I missed my last one), and I've run
> into an odd power output problem.
>
> It's putting out 15W on 80m, 30W on 40M, 55W on 20M, and 90W on 15M and
> 10M. That's exactly opposite from what I would expect. I've checked the
> tubes, the bias current, the plate current, and the HV. All are as
> expected. I've followed Clif's alignment procedure and the power output
> went up a little. The receiver appears to be working fine.
>
> So, I'm now looking for tips for troubleshooting this. Any suggestions?
>
> --Mark
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

22066. Kenwood BT-5 Battery Case

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-14 21:06:04 UTC
From: Don Thomas
Topic: 22066 Message: 22066

Drawing straws here. By chance does anyone have an extra BT-5 Battery case for the old Kenwood TH handhelds? The BT-5 is the one that uses 6 "AA" battery's. A local ham is looking for one if available somewhere to use on his TH-215A.

Don T. // K5ZRQ

[Non-text portions of this message have been removed]

22067. RE: [TS-520_820_530_830] odd power problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-14 21:18:13 UTC
From: Greg Anders
Topic: 22060 Message: 22067

The question about antenna vs. dummy load is highly relevant. If your antenna isn't resonant with low SWR on all bands power output can vary dramatically (laws of physics).When you get maximum power @15Won 80M you say that plate current is as expected. Does that mean you see 200-220ma? For 80M typically the load control on a 520 should be almost fully counter clockwise to get out maximum power. If you dip the plate on 80M then start rotating the load control to add loading and see your power output decline with rising plate current then you either don't have enough drive (bad 12BY7 or have mis-aligned coils) OR you have soft finals.

BTW,. The receiver on a 520 can tune thru the drive control to maximum sensitivity and your transmitter can still be out of alignment. I don't know if you are aware but the transmitter driver ircuit uses a different set of coils (driver coils) while the receiver uses those in the pictures marked antenna coils. Oftern people screw around with both of these and don't realize that they need to be peaked at the same point for a frequency. My 520SE arrived two weeks ago from a previous owner who said he could only get 40W output on 75M. Well, that's because on 3800khz the receiver peaked with the drive control at 2 o'clock whereas the transmitter driver circuit peaked at 10 o"clock.
So, I would check to see where the drive control peaks on receive, then go to CW and see where it peaks on transmit. If the point are different you need to sync the antenna coils with the driver coils. If they are identical the cause is elsewhere.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Dave ve3wej
Sent: Friday, August 14, 2009 1:15 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] odd power problem

is this into a dummy load, or live antenna.....

----- Original Message -----
From: "wm7d" <mdowning@...<mailto:mdowning%40wm7d.net>>
To: <TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>>
Sent: Friday, August 14, 2009 2:22 PM
Subject: [TS-520_820_530_830] odd power problem

> I've picked up a 1976 vintage TS-520 (I missed my last one), and I've run
> into an odd power output problem.
>
> It's putting out 15W on 80m, 30W on 40M, 55W on 20M, and 90W on 15M and
> 10M. That's exactly opposite from what I would expect. I've checked the
> tubes, the bias current, the plate current, and the HV. All are as
> expected. I've followed Clif's alignment procedure and the power output
> went up a little. The receiver appears to be working fine.

>
> So, I'm now looking for tips for troubleshooting this. Any suggestions?
>
> --Mark
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

[Non-text portions of this message have been removed]

22068. RE: [TS-520_820_530_830] TS-830S Gold power output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-14 21:27:47 UTC
From: Greg Anders
Topic: 22060 Message: 22068

The cause could be many things. It depends if you are tuning into an antenna or dummy load. If its an antenna and its resonant on one band and has high SWR/reactance on another you will see drastically different power output.

General causes if you are measuring output into a dummy include but are not limited to

1. Bad final or driver tube.

2. Misalignment in the transceiver (if band specific it would be either the heterodyne oscillator, mixer coils or driver/antenna coils on a specific band)

3. Drooping HV due to aged/failing electrolytic (Should be 850V no load dropping only to around 750-760V full load.) This would however be uniform most likely on several bands.

4. I had three 830S transceivers over the years and in peak condition (aligned and good tubes) always got around 100-120W on 80M about the same on 40/20M and only dropping to 90W on 10M. The drop is inevitable with 6146 tubes.

Check your watt meter first and use a dummy load for correct comparison if you were using an antenna.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of L Kendall
Sent: Friday, August 14, 2009 11:47 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS-830S Gold power output

What are typical power output levels for the TS-830S?

Before someone says it, YES, I am well aware the difference between 85 Watts and 115 Watts is only 1.5 dB or so.

With a Bird meter and 250H element I'm getting (after tuning, dipping, etc, of course) around 85 Watts max at 3.5 MHz and 95 Watts at 14.2 MHz.

It is stable output and does not decay. (I don't keep it keyed down for more than 5 seconds at max power.) From this I infer the tubes are probably OK.

I have verified the cables are not lossy.

It could be the Bird meter or element, and I have not ruled it out.

TIA
73
LK

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

22069. RE: [TS-520_820_530_830] TS-830S Gold power output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-14 21:36:54 UTC
From: L Kendall
Topic: 22060 Message: 22069

Thanks.

Using dummy load, Berd Termaline. I meant to include that in the original post.

Your suggestion #3 is my suspicion as well. The rig has not been used in many years.

I still have not ruled out the meter or element. There may be no problem with the radio at all. Somewhere I had a calibration procedure, or at least a test, for the model 43.

The rig is hardly used. I'm not concerned about the tubes just yet.

I'll use an "O" scope to investigate #2. Maybe the waveform would show something unusual?

>3. Drooping HV due to aged/failing electrolytic (Should be 850V no load dropping only to around 750-760V full load.) This would however be uniform most likely on several bands.

>

On Fri, 2009-08-14 at 14:27 -0700, Greg Anders wrote:

> Th

[Non-text portions of this message have been removed]

22070. RE: [TS-520_820_530_830] TS-830S Gold power output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-14 21:49:17 UTC
From: Greg Anders
Topic: 22060 Message: 22070

I have been thru these radios many times... If your caps are getting old they will get leaky and start acting like resistors. The 520S I just went thru got new caps immediately since it is 28 years old.

If you check the peaking point between receive/transmit on the drive control on a specific frequency that will tell you if the driver and antenna coils are aligned to peak at the same frequency. The mixer coils should also be checked to see if they are peaked. The heterodyne oscillator coil for any band it less sensitive. If it is way off in one direction your receiver should be somewhat deaf and transmitter power reduced, In the other direction once you get past the peak the oscillator will shut off like a light switch and you won't get anything thru the receiver or transmitter. If you suspect alignment pick a frequency, peak the receiver and see if you get maximoum transmit drive without moving the drive control. If you do, fine, if not then someone has tweeked either the antenna coil or the driver coil and not synchronized them.

Gud luck,

Greg

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of L Kendall
Sent: Friday, August 14, 2009 2:37 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: RE: [TS-520_820_530_830] TS-830S Gold power output

Thanks.

Using dummy load, Berd Termaline. I meant to include that in the
original post.

Your suggestion #3 is my suspicion as well. The rig has not been used in
many years.

I still have not ruled out the meter or element. There may be no problem
with the radio at all. Somewhere I had a calibration procedure, or at
least a test, for the model 43.

The rig is hardly used. I'm not concerned about the tubes just yet.

I'll use an "O" scope to investigate #2. Maybe the waveform would show
something unusual?

>3. Drooping HV due to aged/failing electrolytic (Should be 850V no load
dropping only to around 750-760V full load.) This would however be
uniform most likely on several bands.

>

On Fri, 2009-08-14 at 14:27 -0700, Greg Anders wrote:

> Th

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

22071. RE: [TS-520_820_530_830] TS-830S Gold power output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-14 21:50:02 UTC
From: Greg Anders
Topic: 22060 Message: 22071

I have been thru these radios many times... If your caps are getting old they will get leaky and start acting like resistors. The 520S I just went thru got new caps immediately since it is 28 years old.

If you check the peaking point between receive/transmit on the drive control on a specific frequency that will tell you if the driver and antenna coils are aligned to peak at the same frequency. The mixer coils should also be checked to see if they are peaked. The heterodyne oscillator coil for any band it less sensitive. If it is way off in one direction your receiver should be somewhat deaf and transmitter power reduced, In the other direction once you get past the peak the oscillator will shut off like a light switch and you won't get anything thru the receiver or transmitter. If you suspect alignment pick a frequency, peak the receiver and see if you get maximoum transmit drive without moving the drive control. If you do, fine, if not then someone has tweeked either the antenna coil or the driver coil and not synchronized them.

Gud luck,

Greg

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of L Kendall
Sent: Friday, August 14, 2009 2:37 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: RE: [TS-520_820_530_830] TS-830S Gold power output

Thanks.

Using dummy load, Berd Termaline. I meant to include that in the
original post.

Your suggestion #3 is my suspicion as well. The rig has not been used in
many years.

I still have not ruled out the meter or element. There may be no problem
with the radio at all. Somewhere I had a calibration procedure, or at
least a test, for the model 43.

The rig is hardly used. I'm not concerned about the tubes just yet.

I'll use an "O" scope to investigate #2. Maybe the waveform would show
something unusual?

>3. Drooping HV due to aged/failing electrolytic (Should be 850V no load
dropping only to around 750-760V full load.) This would however be
uniform most likely on several bands.

>

On Fri, 2009-08-14 at 14:27 -0700, Greg Anders wrote:

> Th

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

22072. Re: [TS-520_820_530_830] Mic mystery

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-14 22:21:30 UTC
From: Scott Litz
Topic: 22052 Message: 22072

THE ASTATIC D-104 MICROPHONES USUALLY HAD A WIRING SCHEMATIC INSIDE THE MIKE ON THE BOTTOM PLATE,THESE MICROPHONES WERE DESIGNED FOR THE OLD TUBE RADIO'S THAT WERE EXTREMELY BASSY AND THEY ARE TINNY IN SOUND WHEN COUPLED TO A HIGH IMPEDANCE SOLID STATE CIRCUIT . A POINT 01. TO A .05 MFD CAPACITOR FROM THE AUDIO LEAD TO GROUND WILL ROLL OFF THE HIGH'S. HAVE FUN. 73'S KC0ROM SCOTT LITZ

--- On Fri, 8/14/09, Bob Singer <aztrooper@...> wrote:

> From: Bob Singer <aztrooper@...>
> Subject: Re: [TS-520_820_530_830] Mic mystery
> To: TS-520_820_530_830@yahoogroups.com
> Date: Friday, August 14, 2009, 12:35 PM
> Non-amplified version, G base.
>
> Bob
>
> Greg Anders wrote:
> >
> >
> > FYI,
> >
> > If the D-104 is an amplified version Astatic cuts off
> the B+ (9v
> > battery) when the PTT is not engaged to preserve
> battery life as well.
> > I never had a problem using the PTT as specified in
> the Astatic
> > drawing with any transmitter/transceiver. Astatic’s
> PTT is open on
> > receive/closed to ground on transmit.
> >
> > Very simple,
> >
> > Greg
> > KG6YV
> >
> > From: TS-520_820_530_830@yahoogroups.com
>
> > <mailto:TS-520_820_530_830%40yahoogroups.com>
> > [mailto:TS-520_820_530_830@yahoogroups.com
>
> > <mailto:TS-520_820_530_830%40yahoogroups.com>]
> On Behalf Of Gordon JC
> > Pearce
> > Sent: Friday, August 14, 2009 9:20 AM

> > To: TS-520_820_530_830@yahoogroups.com
>
> > <mailto:TS-520_820_530_830%40yahoogroups.com>
> > Subject: Re: [TS-520_820_530_830] Mic mystery
> >
> >
> >
> > On Fri, 2009-08-14 at 10:34 -0500, Bob Singer wrote:
> > > OK, so after all the posts on the Astatic D104
> with the G base, I
> > have a
> > > question about wiring. For the 520S, the manual
> shows mic audio goes to
> > > pin 1, mic key is pin 2&3 and audio ground
> (shield) is pin 4. On the
> > > diagram I downloaded for the wiring on the D104 G
> base, it shows the
> > mic
> > > key is a SPST switch. In the open position, it
> connects the mic audio
> > > wire to ground (the center position of the mic
> key switch is ground)
> > and
> > > in the closed position, it grounds the red wire.
> There is no seperate
> > > mic key circuit. I thought the mic key had to
> connect to pin 2 and 3 on
> > > the 520S. Will the G base work the way it comes
> factory wired on the
> > radio?
> > >
> > > Thanks.
> > > Bob KDØEEZ
> >
> > Internally the two grounds are connected together
> anyway. What you
> > probably have there is something that shorts across
> the mike with the
> > key up, and shorts the PTT line to ground with the key
> down. As long as
> > you've got the plug wired up correctly with regards to
> the mike and PTT
> > line, it should be okay.
> >
> > Gordon 2M0YEQ
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >

>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>   mailto:TS-520_820_530_830-fullfeatured@yahoogroups.com
>
>
>

22073. RE: [TS-520_820_530_830] TS-830S Gold power output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-14 22:36:05 UTC
From: L Kendall
Topic: 22060 Message: 22073

FB, thanks Greg.

On Fri, 2009-08-14 at 14:49 -0700, Greg Anders wrote:

> I have been thru these radios many times... If your caps are getting old they will get leaky and start acting like resistors. The 520S I just went thru got new caps immediately since it is 28 years old.
>
> If you check the peaking point between receive/transmit on the drive control on a specific frequency that will tell you if the driver and antenna coils are aligned to peak at the same frequency. The mixer coils should also be checked to see if they are peaked. The heterodyne oscillator coil for any band it less sensitive. If it is way off in one direction your receiver should be somewhat deaf and transmitter power reduced, In the other direction once you get past the peak the oscillator will shut off like a light switch and you won't get anything thru the receiver or transmitter. If you suspect alignment pick a frequency, peak the receiver and see if you get maximoum transmit drive without moving the drive control. If you do, fine, if not then someone has tweeked either the antenna coil or the driver coil and not synchronized them.
>
> Gud luck,
>
> Greg

[Non-text portions of this message have been removed]

22074. Re: [TS-520_820_530_830] Mic mystery

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-15 00:29:42 UTC
From: Gordon JC Pearce
Topic: 22052 Message: 22074

On Fri, 2009-08-14 at 13:41 -0500, martin wrote:
> Hi Bob. The TS-520S requires that the PTT circuit be totally separate
> from the audio shield.

Looking at the workshop manual I'm not sure why this would be the case.
What's so different between the 520S and the 520?

Gordon 2M0YEQ

22075. Re: [TS-520_820_530_830] Mic mystery

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-15 02:46:47 UTC
From: Bob Singer
Topic: 22052 Message: 22075

I also looked at the sechmatic and saw that pin 3 on the mic input goes
to chassis ground.
Bob
kd0eez

Gordon JC Pearce wrote:
>
>
> On Fri, 2009-08-14 at 13:41 -0500, martin wrote:
> > Hi Bob. The TS-520S requires that the PTT circuit be totally separate
> > from the audio shield.
>
> Looking at the workshop manual I'm not sure why this would be the case.
> What's so different between the 520S and the 520?
>
> Gordon 2M0YEQ
>
>

22076. Re: [TS-520_820_530_830] Mic mystery

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-15 02:55:03 UTC
From: Scott Litz
Topic: 22052 Message: 22076

THE AUDIO GROUND NEEDS TO BE ISOLATED TO KEEP IT FROM FEEDING BACK THROUGH THE SPEAKER,IT HAS TO DO WITH CHASIS DESIGN,73 KC0ROM

--- On Fri, 8/14/09, Gordon JC Pearce <gordon@...> wrote:

> From: Gordon JC Pearce <gordon@...>
> Subject: Re: [TS-520_820_530_830] Mic mystery
> To: TS-520_820_530_830@yahoogroups.com
> Date: Friday, August 14, 2009, 7:29 PM
> On Fri, 2009-08-14 at 13:41 -0500,
> martin wrote:
> > Hi Bob. The TS-520S requires that the PTT
> circuit be totally separate
> > from the audio shield.
>
> Looking at the workshop manual I'm not sure why this would
> be the case.
> What's so different between the 520S and the 520?
>
> Gordon 2M0YEQ
>
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> ------------------------------------
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> Yahoo! Groups Links
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>
>   mailto:TS-520_820_530_830-fullfeatured@yahoogroups.com
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22077. Re: [TS-520_820_530_830] odd power problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-15 11:40:12 UTC
From: martin
Topic: 22060 Message: 22077

Hi Mark. What type of meter are you using to measure the power output? The reason I asked is that some meters (designed for 11M CB use) might give this kind of result, as they are not designed to work on the lower bands.

TTYL

wm7d wrote:
> I've picked up a 1976 vintage TS-520 (I missed my last one), and
> I've run into an odd power output problem.
>
> It's putting out 15W on 80m, 30W on 40M, 55W on 20M, and 90W on 15M
> and 10M. That's exactly opposite from what I would expect. I've
> checked the tubes, the bias current, the plate current, and the HV.
> All are as expected. I've followed Clif's alignment procedure and
> the power output went up a little. The receiver appears to be
> working fine.
>
> So, I'm now looking for tips for troubleshooting this. Any
> suggestions?
>
> --Mark
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at http://www.defectivebydesign.org/what_is_drm"

22078. RE: [TS-520_820_530_830] TS-830S Gold power output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-15 15:34:26 UTC
From: John Davidson
Topic: 22060 Message: 22078

I deleted your original post in haste so now I wonder if this low power is on 10M?
New , out of the box myt
TS 520 never quiite hit 100 W on 10, now it has 100 w on all bands except 65 W on 10 on the 2nd set of tubes.
Not using the rig is harder on the HV filter caps than ocassional use. My 520 gets used a few times a week for the last 30+ years and still has a little over 820 V no load and 800v under full transmit power.
I only use it on CW.
The ssb works when I test it but fone is just not my thing.
--- On Fri, 8/14/09, Greg Anders <greg.anders@...> wrote:

From: Greg Anders <greg.anders@...>
Subject: RE: [TS-520_820_530_830] TS-830S Gold power output
To: "TS-520_820_530_830@yahoogroups.com" <TS-520_820_530_830@yahoogroups.com>
Date: Friday, August 14, 2009, 5:49 PM

I have been thru these radios many times... If your caps are getting old they will get leaky and start acting like resistors. The 520S I just went thru got new caps immediately since it is 28 years old.

If you check the peaking point between receive/transmit on the drive control on a specific frequency that will tell you if the driver and antenna coils are aligned to peak at the same frequency. The mixer coils should also be checked to see if they are peaked. The heterodyne oscillator coil for any band it less sensitive. If it is way off in one direction your receiver should be somewhat deaf and transmitter power reduced, In the other direction once you get past the peak the oscillator will shut off like a light switch and you won't get anything thru the receiver or transmitter. If you suspect alignment pick a frequency, peak the receiver and see if you get maximoum transmit drive without moving the drive control. If you do, fine, if not then someone has tweeked either the antenna coil or the driver coil and not synchronized them.

Gud luck,

Greg

From: TS-520_820_530_ 830@yahoogroups. com [mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of L Kendall
Sent: Friday, August 14, 2009 2:37 PM
To: TS-520_820_530_ 830@yahoogroups. com
Subject: RE: [TS-520_820_ 530_830] TS-830S Gold power output

Thanks.

Using dummy load, Berd Termaline. I meant to include that in the
original post.

Your suggestion #3 is my suspicion as well. The rig has not been used in many years.

I still have not ruled out the meter or element. There may be no problem with the radio at all. Somewhere I had a calibration procedure, or at least a test, for the model 43.

The rig is hardly used. I'm not concerned about the tubes just yet.

I'll use an "O" scope to investigate #2. Maybe the waveform would show something unusual?

>3. Drooping HV due to aged/failing electrolytic (Should be 850V no load dropping only to around 750-760V full load.) This would however be uniform most likely on several bands.

>

On Fri, 2009-08-14 at 14:27 -0700, Greg Anders wrote:

> Th

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

22079. Re: [TS-520_820_530_830] Help needed on digital display on TS-820(s)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-15 15:46:31 UTC
From: k5lcl@sbcglobal.net
Topic: 22001 Message: 22079

I'm not real sure I understand which digit(s) is acting up, but on my 820 (with the digital modification) the last digit or two would blink/rapidly change. I tried the quick fix of disconnecting the DG-1 leads from the frequency counter, and cleaning them with De-Oxit, to no avail. Then I just happened to notice it would sometimes quit acting up when I changed bands. I unplugged it and I sprayed the band switch contacts with De-Oxit, switched bands several times to clean the switch, blew it dry with compressed air, (with it still unplugged of course), and it corrected the problem. No more digits blinking and changing rapidly.

----- Original Message -----
From: Ken
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, August 07, 2009 5:45 PM
Subject: [TS-520_820_530_830] Help needed on digital display on TS-820(s)

I have a TS-820 with the digital display option. Some times it acts funny, and I'll try to explain what it does. On the digital display 14.2XX.0 for example, the XX 8 will be 0 and 9 will be 1 only acting up on the segments marked XX. Any idea what component would cause this? It seems to be somewhat temperature sensitive.
Thanks Ken WA0NVT

[Non-text portions of this message have been removed]

22080. Re: [TS-520_820_530_830] odd power problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-15 15:48:38 UTC
From: Mark A. Downing
Topic: 22060 Message: 22080

On Sat, 15 Aug 2009, martin wrote:

> Hi Mark. What type of meter are you using to measure the power
> output? The reason I asked is that some meters (designed for 11M CB
> use) might give this kind of result, as they are not designed to work
> on the lower bands.

Well, that was the best tip I've had. Turns out the meter I was using is rated from 20MHz to 1GHz. I didn't even think about that.

The radio is putting out a solid 125W on 40M and 80M. I guess the tubes are strong. I guess I learned how to align the thing, and to double check my equipment next time.

--Mark

22081. Re: [TS-520_820_530_830] odd power problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-14 20:35:59 UTC
From: Mark A. Downing
Topic: 22060 Message: 22081

On Fri, 14 Aug 2009, Dave ve3wej wrote:

> is this into a dummy load, or live antenna.....

All testing has been into a dummy load.

22082. RE: [TS-520_820_530_830] TS-830S Gold power output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-15 19:30:26 UTC
From: L Kendall
Topic: 22060 Message: 22082

No, it measures lower on 80 meters.

I'm starting to suspect the Bird meter may have a problem. Now checking
on calibration.

In the meantime I'll be looking at the Hi voltage electrolytic caps as
well. Will probably scope them for sag or ripple under a load.

Larry

On Sat, 2009-08-15 at 08:34 -0700, John Davidson wrote:

> I deleted your original post in haste so now I wonder if this low power is on 10M?
> New , out of the box myt
> TS 520 never quiite hit 100 W on 10, now it has 100 w on all bands except 65 W on 10 on the 2nd set of tubes.
> Not using the rig is harder on the HV filter caps than ocassional use. My 520 gets used a few times a week for the last 30+ years and still has a little over 820 V no load and 800v under full transmit power.
> I only use it on CW.
> The ssb works when I test it but fone is just not my thing.
> --- On Fri, 8/14/09, Greg Anders <greg.anders@...> wrote:
>
>
> From: Greg Anders <greg.anders@...>
> Subject: RE: [TS-520_820_530_830] TS-830S Gold power output
> To: "TS-520_820_530_830@yahoogroups.com" <TS-520_820_530_830@yahoogroups.com>
> Date: Friday, August 14, 2009, 5:49 PM
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> I have been thru these radios many times... If your caps are getting old they will get leaky and start acting like resistors. The 520S I just went thru got new caps immediately since it is 28 years old.
>
> If you check the peaking point between receive/transmit on the drive control on a specific frequency that will tell you if the driver and antenna coils are aligned to peak at the same frequency. The mixer coils should also be checked to see if they are peaked. The heterodyne oscillator coil for any band it less sensitive. If it is way off in one direction your receiver should be somewhat deaf and transmitter power reduced, In the other direction once you get past the peak the oscillator will shut off like a light switch and you won't get anything thru the receiver or transmitter. If you suspect alignment pick a frequency, peak the receiver and see if you get maximoum transmit drive without moving the

drive control. If you do, fine, if not then someone has tweeked either the antenna coil or the driver coil and not synchronized them.
>
> Gud luck,
>
> Greg
>
> From: TS-520_820_530_ 830@yahoogroups. com [mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of L Kendall
> Sent: Friday, August 14, 2009 2:37 PM
> To: TS-520_820_530_ 830@yahoogroups. com
> Subject: RE: [TS-520_820_ 530_830] TS-830S Gold power output
>
> Thanks.
>
> Using dummy load, Berd Termaline. I meant to include that in the
> original post.
>
> Your suggestion #3 is my suspicion as well. The rig has not been used in
> many years.
>
> I still have not ruled out the meter or element. There may be no problem
> with the radio at all. Somewhere I had a calibration procedure, or at
> least a test, for the model 43.
>
> The rig is hardly used. I'm not concerned about the tubes just yet.
>
> I'll use an "O" scope to investigate #2. Maybe the waveform would show
> something unusual?
>
> >3. Drooping HV due to aged/failing electrolytic (Should be 850V no load
> dropping only to around 750-760V full load.) This would however be
> uniform most likely on several bands.
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> On Fri, 2009-08-14 at 14:27 -0700, Greg Anders wrote:
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22083. WTB YG-455C

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-15 19:32:01 UTC
From: L Kendall
Topic: 22060 Message: 22083

Looking for a good YG-455C for my TS-830S.

73
Larry K5END

[Non-text portions of this message have been removed]

22084. Neutralization Of Kenwood TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-15 20:26:10 UTC
From: Stephen Judd
Topic: 22084 Message: 22084

I am curios, is there some one out there that would be willing to Make a Video of all there Neutralization tools and there process. I am a fast learner as long as I can see what needs to be done. I am a hands on person not a book person I can successfully Neutralize the Swans and the dx 60b that I have but I am not familiar with the TS-520 that I have thanks for any help this group is great. Unlike some of the others I have joined 73

Stephen/KB7BGS

[Non-text portions of this message have been removed]

22085. Re: [TS-520_820_530_830] Neutralization Of Kenwood TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-16 00:34:48 UTC
From: Dave ve3wej
Topic: 22084 Message: 22085

have you checked with the local radio club, maybe someone there could show you, right at you radio....

----- Original Message -----
From: "Stephen Judd" <swanradios@...>
To: "Kenwood goups" <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, August 15, 2009 4:26 PM
Subject: [TS-520_820_530_830] Neutralization Of Kenwood TS-520

I am curios, is there some one out there that would be willing to Make a Video of all there Neutralization tools and there process. I am a fast learner as long as I can see what needs to be done. I am a hands on person not a book person I can successfully Neutralize the Swans and the dx 60b that I have but I am not familiar with the TS-520 that I have thanks for any help this group is great. Unlike some of the others I have joined 73

Stephen/KB7BGS

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Yahoo! Groups Links

22086. RE: [TS-520_820_530_830] Neutralization Of Kenwood TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-16 00:38:39 UTC
From: Greg Anders
Topic: 22084 Message: 22086

1. Turn off the screen grid.

2. Set your transmitter to 28.5 mhz

3. Put a scope or RF meter on the output.

4. Tune the neutralizing cap for minimum output....

Takes 5 minutes.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Stephen Judd
Sent: Saturday, August 15, 2009 1:26 PM
To: Kenwood goups
Subject: [TS-520_820_530_830] Neutralization Of Kenwood TS-520

I am curios, is there some one out there that would be willing to Make a Video of all there Neutralization tools and there process. I am a fast learner as long as I can see what needs to be done. I am a hands on person not a book person I can successfully Neutralize the Swans and the dx 60b that I have but I am not familiar with the TS-520 that I have thanks for any help this group is great. Unlike some of the others I have joined 73

Stephen/KB7BGS

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[Non-text portions of this message have been removed]

22087. Fw: Neutralization Of Kenwood TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-15 21:29:46 UTC
From: Stephen Judd
Topic: 22087 Message: 22087

Stephen/KB7BGS

--- On Sat, 8/15/09, Stephen Judd <swanradios@...> wrote:

From: Stephen Judd <swanradios@...>
Subject: Neutralization Of Kenwood TS-520
To: "Kenwood goups" <TS-520_820_530_830@yahoogroups.com>
Date: Saturday, August 15, 2009, 2:26 PM

I am curios, is there some one out there that would be willing to Make a Video of all there Neutralization tools and there process. I am a fast learner as long as I can see what needs to be done. I am a hands on person not a book person I can successfully Neutralize the Swans and the dx 60b that I have but I am not familiar with the TS-520 that I have thanks for any help this group is great. Unlike some of the others I have joined 73

Stephen/KB7BGS

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22088. Re: TS-830S Gold power output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-16 06:12:31 UTC
From: w5rkl
Topic: 22060 Message: 22088

Just a thought.

Tune the 830 up using normal tune up procedures, 830 connected to
a dummy load. Switch to CW mode, close the CW key, and note the
HV and IP meter readings. You may have to tweat the tune up
adjustments in CW mode and possibly advance the CAR control.

Multiply the key down HV and IP meter readings which will give you
the final amplifier's DC input power. The 830's normal CW DC input
power is 180 watts. Do this on all bands, calculating the input power
on all bands. This will give you an indication whether there is a
problem with the final amplifier or not.

You might also try a different watt meter and compare it with the
Bird watt meter.

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, L Kendall <k5end@...> wrote:
>
> No, it measures lower on 80 meters.
>
> I'm starting to suspect the Bird meter may have a problem. Now checking
> on calibration.
>
> In the meantime I'll be looking at the Hi voltage electrolytic caps as
> well. Will probably scope them for sag or ripple under a load.
>
> Larry
>
> On Sat, 2009-08-15 at 08:34 -0700, John Davidson wrote:
>
> > I deleted your original post in haste so now I wonder if this low power is on 10M?
> > New , out of the box myt
> > TS 520 never quiite hit 100 W on 10, now it has 100 w on all bands except 65 W on 10 on
the 2nd set of tubes.
> > Not using the rig is harder on the HV filter caps than ocassional use. My 520 gets used
a few times a week for the last 30+ years and still has a little over 820 V no load and
800v under full transmit power.
> > I only use it on CW.
> > The ssb works when I test it but fone is just not my thing.
> > --- On Fri, 8/14/09, Greg Anders <greg.anders@...> wrote:
> >
> >
> > From: Greg Anders <greg.anders@...>

> > Subject: RE: [TS-520_820_530_830] TS-830S Gold power output
> > To: "TS-520_820_530_830@yahoogroups.com" <TS-520_820_530_830@yahoogroups.com>
> > Date: Friday, August 14, 2009, 5:49 PM
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> >
> > I have been thru these radios many times... If your caps are getting old they will get leaky and start acting like resistors. The 520S I just went thru got new caps immediately since it is 28 years old.
> >
> > If you check the peaking point between receive/transmit on the drive control on a specific frequency that will tell you if the driver and antenna coils are aligned to peak at the same frequency. The mixer coils should also be checked to see if they are peaked. The heterodyne oscillator coil for any band it less sensitive. If it is way off in one direction your receiver should be somewhat deaf and transmitter power reduced, In the other direction once you get past the peak the oscillator will shut off like a light switch and you won't get anything thru the receiver or transmitter. If you suspect alignment pick a frequency, peak the receiver and see if you get maximoum transmit drive without moving the drive control. If you do, fine, if not then someone has tweeked either the antenna coil or the driver coil and not synchronized them.
> >
> > Gud luck,
> >
> > Greg
> >
> > From: TS-520_820_530_ 830@yahoogroups. com [mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of L Kendall
> > Sent: Friday, August 14, 2009 2:37 PM
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Subject: RE: [TS-520_820_ 530_830] TS-830S Gold power output
> >
> > Thanks.
> >
> > Using dummy load, Berd Termaline. I meant to include that in the
> > original post.
> >
> > Your suggestion #3 is my suspicion as well. The rig has not been used in
> > many years.
> >
> > I still have not ruled out the meter or element. There may be no problem
> > with the radio at all. Somewhere I had a calibration procedure, or at
> > least a test, for the model 43.
> >
> > The rig is hardly used. I'm not concerned about the tubes just yet.
> >
> > I'll use an "O" scope to investigate #2. Maybe the waveform would show
> > something unusual?

> >
> > >3. Drooping HV due to aged/failing electrolytic (Should be 850V no load
> > dropping only to around 750-760V full load.) This would however be
> > uniform most likely on several bands.
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> > On Fri, 2009-08-14 at 14:27 -0700, Greg Anders wrote:
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22089. Re: TS-830S Gold power output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-16 15:27:41 UTC
From: w5rkl
Topic: 22060 Message: 22089

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:

> You may have to tweat the tune up adjustments in CW mode

I meant to say "tweak", the tune up adjustments in CW mode,
not "tweat".

73
Mike W5RKL

22090. Re: [TS-520_820_530_830] Re: TS-830S Gold power output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-16 15:39:53 UTC
From: L Kendall
Topic: 22060 Message: 22090

Now ya tell me.

I just spent 15 minutes tuning it up for twitter. hihi.

LK

On Sun, 2009-08-16 at 15:27 +0000, w5rkl wrote:

> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> > You may have to tweat the tune up adjustments in CW mode
>
> I meant to say "tweak", the tune up adjustments in CW mode,
> not "tweat".
>
>
>
> 73
> Mike W5RKL
>

[Non-text portions of this message have been removed]

22091. BS8/BS5 module xtal change

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-16 06:45:36 UTC
From: Frank VK5MFW
Topic: 22091 Message: 22091

Howdy group,
Has anyone changed the Oscillator xtal in a BS8 from the supplied 8.83mhz to 3.395 Mhz to in essance make it a BS5 and make it work with a 520 series?? All the circuit appears to be the same,, of course it would be after the 455Khz filter,, the only differance that may effect the operation of the xtal change would be the bandwitdh of T201. any comments please..cheers Frank VK5KV..

22092. RE: [TS-520_820_530_830] Re: TS-830S Gold power output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-16 18:15:43 UTC
From: Greg Anders
Topic: 22060 Message: 22092

One other thing I can throw in here is that if your HV caps are good you should see around 850V no load. It will dip under full key down conditions with goo finals to about 750V at full output. One good indication is that you should see maximum power output 100-120W (depending on the band) with about 220-230ma of plate current. If you load beyond 230ma you should see a Drop in output.

FYi,

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
Sent: Saturday, August 15, 2009 11:13 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS-830S Gold power output

Just a thought.

Tune the 830 up using normal tune up procedures, 830 connected to
a dummy load. Switch to CW mode, close the CW key, and note the
HV and IP meter readings. You may have to tweat the tune up
adjustments in CW mode and possibly advance the CAR control.

Multiply the key down HV and IP meter readings which will give you
the final amplifier's DC input power. The 830's normal CW DC input
power is 180 watts. Do this on all bands, calculating the input power
on all bands. This will give you an indication whether there is a
problem with the final amplifier or not.

You might also try a different watt meter and compare it with the
Bird watt meter.

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, L Kendall <k5end@...> wrote:
>
> No, it measures lower on 80 meters.
>
> I'm starting to suspect the Bird meter may have a problem. Now checking
> on calibration.
>
> In the meantime I'll be looking at the Hi voltage electrolytic caps as
> well. Will probably scope them for sag or ripple under a load.
>

> Larry
>
> On Sat, 2009-08-15 at 08:34 -0700, John Davidson wrote:
>
> > I deleted your original post in haste so now I wonder if this low power is on 10M?
> > New , out of the box myt
> > TS 520 never quiite hit 100 W on 10, now it has 100 w on all bands except 65 W on 10 on the 2nd set of tubes.
> > Not using the rig is harder on the HV filter caps than ocassional use. My 520 gets used a few times a week for the last 30+ years and still has a little over 820 V no load and 800v under full transmit power.
> > I only use it on CW.
> > The ssb works when I test it but fone is just not my thing.
> > --- On Fri, 8/14/09, Greg Anders <greg.anders@...> wrote:
> >
> >
> > From: Greg Anders <greg.anders@...>
> > Subject: RE: [TS-520_820_530_830] TS-830S Gold power output
> > To: "TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>" <TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>>
> > Date: Friday, August 14, 2009, 5:49 PM
> >
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> >
> > I have been thru these radios many times... If your caps are getting old they will get leaky and start acting like resistors. The 520S I just went thru got new caps immediately since it is 28 years old.
> >
> > If you check the peaking point between receive/transmit on the drive control on a specific frequency that will tell you if the driver and antenna coils are aligned to peak at the same frequency. The mixer coils should also be checked to see if they are peaked. The heterodyne oscillator coil for any band it less sensitive. If it is way off in one direction your receiver should be somewhat deaf and transmitter power reduced, In the other direction once you get past the peak the oscillator will shut off like a light switch and you won't get anything thru the receiver or transmitter. If you suspect alignment pick a frequency, peak the receiver and see if you get maximoum transmit drive without moving the drive control. If you do, fine, if not then someone has tweeked either the antenna coil or the driver coil and not synchronized them.
> >
> > Gud luck,
> >
> > Greg
> >
> > From: TS-520_820_530_ 830@yahoogroups. com [mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of L Kendall
> > Sent: Friday, August 14, 2009 2:37 PM
> > To: TS-520_820_530_ 830@yahoogroups. com

> > Subject: RE: [TS-520_820_ 530_830] TS-830S Gold power output
> >
> > Thanks.
> >
> > Using dummy load, Berd Termaline. I meant to include that in the
> > original post.
> >
> > Your suggestion #3 is my suspicion as well. The rig has not been used in
> > many years.
> >
> > I still have not ruled out the meter or element. There may be no problem
> > with the radio at all. Somewhere I had a calibration procedure, or at
> > least a test, for the model 43.
> >
> > The rig is hardly used. I'm not concerned about the tubes just yet.
> >
> > I'll use an "O" scope to investigate #2. Maybe the waveform would show
> > something unusual?
> >
> > >3. Drooping HV due to aged/failing electrolytic (Should be 850V no load
> > dropping only to around 750-760V full load.) This would however be
> > uniform most likely on several bands.
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> > On Fri, 2009-08-14 at 14:27 -0700, Greg Anders wrote:
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22093. RE: [TS-520_820_530_830] Re: TS-830S Gold power output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-16 20:04:28 UTC
From: L Kendall
Topic: 22060 Message: 22093

If you guys keep this up I'll be pretty well informed on the TS-830S
before long! hihi

Seriously, thanks for the information and tips.

It's very cool that you take your hard-earned experience from working
with these rigs and share it.

It does not go unappreciated.

And, it will be put to good use.

Larry K5END

On Sun, 2009-08-16 at 11:15 -0700, Greg Anders wrote:

> One other thing I can throw in here is that if your HV caps are good you should see around 850V no load. It will dip under full key down conditions with goo finals to about 750V at full output. One good indication is that you should see maximum power output 100-120W (depending on the band) with about 220-230ma of plate current. If you load beyond 230ma you should see a Drop in output.
>
> FYi,
>
> Greg
> KG6YV
>
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
> Sent: Saturday, August 15, 2009 11:13 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: TS-830S Gold power output
>
>
>
>
> Just a thought.
>
> Tune the 830 up using normal tune up procedures, 830 connected to
> a dummy load. Switch to CW mode, close the CW key, and note the
> HV and IP meter readings. You may have to tweat the tune up
> adjustments in CW mode and possibly advance the CAR control.
>
> Multiply the key down HV and IP meter readings which will give you
> the final amplifier's DC input power. The 830's normal CW DC input
> power is 180 watts. Do this on all bands, calculating the input power
> on all bands. This will give you an indication whether there is a
> problem with the final amplifier or not.

>
> You might also try a different watt meter and compare it with the
> Bird watt meter.
>
> 73
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>,
L Kendall <k5end@...> wrote:
> >
> > No, it measures lower on 80 meters.
> >
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> > In the meantime I'll be looking at the Hi voltage electrolytic caps as
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> > Larry
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> > On Sat, 2009-08-15 at 08:34 -0700, John Davidson wrote:
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> > > TS 520 never quiite hit 100 W on 10, now it has 100 w on all bands except 65 W on 10
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> > > Not using the rig is harder on the HV filter caps than ocassional use. My 520 gets
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and 800v under full transmit power.
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> > > The ssb works when I test it but fone is just not my thing.
> > > --- On Fri, 8/14/09, Greg Anders <greg.anders@...> wrote:
> > >
> > >
> > > From: Greg Anders <greg.anders@...>
> > > Subject: RE: [TS-520_820_530_830] TS-830S Gold power output
> > > To:
"TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>"
<TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>>
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> > >
> > > Gud luck,
> > >
> > > Greg
> > >
> > > From: TS-520_820_530_ 830@yahoogroups. com [mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of L Kendall
> > > Sent: Friday, August 14, 2009 2:37 PM
> > > To: TS-520_820_530_ 830@yahoogroups. com
> > > Subject: RE: [TS-520_820_ 530_830] TS-830S Gold power output
> > >
> > > Thanks.
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> > > Using dummy load, Berd Termaline. I meant to include that in the
> > > original post.
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> > > Your suggestion #3 is my suspicion as well. The rig has not been used in
> > > many years.
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> > > I still have not ruled out the meter or element. There may be no problem
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> > > The rig is hardly used. I'm not concerned about the tubes just yet.
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> > > >3. Drooping HV due to aged/failing electrolytic (Should be 850V no load
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> > > On Fri, 2009-08-14 at 14:27 -0700, Greg Anders wrote:
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22094. Re: TS-830S Gold power output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-16 22:05:22 UTC
From: w5rkl
Topic: 22060 Message: 22094

< greg.anders@...> wrote:
> If you load beyond 230ma you should see a Drop in output.

I agree with Greg. This is a common misconception by inexperienced operators that believe a higher IP current results in higher output that makes a difference at the receiving end. Unfortunately, that is completely false!

What this actually does is put unnecessary/undue stress on the HV power supply AND undue stress on the final tube resulting in shorting the final tube's life span.

73
Mike W5RKL

22095. Re: [TS-520_820_530_830] Re: TS-830S Gold power output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-16 22:07:58 UTC
From: L Kendall
Topic: 22060 Message: 22095

Roger, understand.

LK

On Sun, 2009-08-16 at 22:05 +0000, w5rkl wrote:

> < greg.anders@...> wrote:
> > If you load beyond 230ma you should see a Drop in output.
>
> I agree with Greg. This is a common misconception by inexperienced
> operators that believe a higher IP current results in higher output
> that makes a difference at the receiving end. Unfortunately, that
> is completely false!
>
> What this actually does is put unnecessary/undue stress on the HV
> power supply AND undue stress on the final tube resulting in shorting
> the final tube's life span.
>
> 73
> Mike W5RKL

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22096. TS-830s ALC Peak Drive Tune Up Question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-16 17:03:17 UTC
From: Peter
Topic: 22096 Message: 22096

I have a TS-830s that I bought recently and I am trying to learn how to use it correctly. I have replaced the 12BY7A tube with an NOS GE. The final tubes are 6146A's which I am not thrilled with. Other than those known things the radio otherwise seems in good shape. The problem I am having is that when trying to tune it, (step 5 on manual page 18) as instructed, I have the mode set to tune and the meter to ALC and I try to peak the drive. I get almost no activity on the meter it never goes above 1/4 scale and hardly moves if at all. I have tried to adjust the carrier control to see if this effects it, but no luck. Also in the last step of the tune, in CW, the Load control has very little or no effect. Anyone have any ideas? I have the correct 6146B NOS tubes, but don't have the tools or technical knowledge to align it. Thanks, Peter.

22097. Re: TS-830s ALC Peak Drive Tune Up Question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-17 03:22:16 UTC
From: wlinn.linn
Topic: 22096 Message: 22097

--- In TS-520_820_530_830@yahoogroups.com, "Peter" <pureenduro@...> wrote:
>
> I have a TS-830s that I bought recently and I am trying to learn how to use it correctly. I have replaced the 12BY7A tube with an NOS GE. The final tubes are 6146A's which I am not thrilled with. Other than those known things the radio otherwise seems in good shape. The problem I am having is that when trying to tune it, (step 5 on manual page 18) as instructed, I have the mode set to tune and the meter to ALC and I try to peak the drive. I get almost no activity on the meter it never goes above 1/4 scale and hardly moves if at all. I have tried to adjust the carrier control to see if this effects it, but no luck. Also in the last step of the tune, in CW, the Load control has very little or no effect. Anyone have any ideas? I have the correct 6146B NOS tubes, but don't have the tools or technical knowledge to align it. Thanks, Peter.
>
Hi Peter,
Here's a site (Ken K4EAA) where you can get authoritative information about your hybrid, including his instructions on how to tune them. (I have a couple of 830's and they remain my favorite rigs.)

http://www.k4eaa.com/types.html

Best regards and good luck with the 830.

Bill - W7WEL

22098. Re: TS-830s ALC Peak Drive Tune Up Question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-17 05:50:43 UTC
From: w5rkl
Topic: 22096 Message: 22098

Hello Peter,

There are 2 possible sources of your problem.

1. Weak final tubes

or

2. R5 and/or R6 on the Rectifier Unit have increased in resistance.

The normal final tubes used in the 830 are 6146Bs. I recommend
replacing bothj final tubes with 6146Bs then neutralize the final
amplifier. The neutralizing procedures are contained in the
TS-830 operator's manual.

If, after replacing the final tubes and neutralizing the final
amplifier the problem still exist, replace both R5 and R6 on the
Rectifier Unit. R5 and R6 are both 56K 1/2 watt resistors.

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Peter" <pureenduro@...> wrote:
>
> I have a TS-830s that I bought recently and I am trying to learn how to use it correctly. I have replaced the 12BY7A tube with an NOS GE. The final tubes are 6146A's which I am not thrilled with. Other than those known things the radio otherwise seems in good shape. The problem I am having is that when trying to tune it, (step 5 on manual page 18) as instructed, I have the mode set to tune and the meter to ALC and I try to peak the drive. I get almost no activity on the meter it never goes above 1/4 scale and hardly moves if at all. I have tried to adjust the carrier control to see if this effects it, but no luck. Also in the last step of the tune, in CW, the Load control has very little or no effect. Anyone have any ideas? I have the correct 6146B NOS tubes, but don't have the tools or technical knowledge to align it. Thanks, Peter.
>

22099. Re: BS8/BS5 module xtal change

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-17 10:44:41 UTC
From: Frank VK5MFW
Topic: 22091 Message: 22099

By the way here Guy's I'm talking about the BS5/BS8 modules fittd to a SM220, i might just go ahead and try the xtal change a see what happens..

--- In TS-520_820_530_830@yahoogroups.com, "Frank VK5MFW" <frankwoolfe@...> wrote:
>
> Howdy group,
> Has anyone changed the Oscillator xtal in a BS8 from the supplied 8.83mhz to 3.395 Mhz to in essance make it a BS5 and make it work with a 520 series?? All the circuit appears to be the same,, of course it would be after the 455Khz filter,, the only differance that may effect the operation of the xtal change would be the bandwitdh of T201. any comments please..cheers Frank VK5KV..
>

22100. Re: TS-830s ALC Peak Drive Tune Up Question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-17 18:24:04 UTC
From: Peter
Topic: 22096 Message: 22100

Bill & Mike, Thanks for your responses. I have spoken (emailed) with Ken and he is very good. I bought many parts from him. I use his tuning guide (which matches the Kenwood manual) and in step two is where my problem lies. When I have the mode in Tune, Meter to ALC and Switch to send the meter jumps backward to near zero and with any adjustment (Carrier control etc) I have found it does not make any positive effect and I am not able to peak the meter or get it to move in a positive direction at all. If I skip this step, the other steps do seem to work. So far, I have replaced the final capacitors with one of Ken's kits and have also replaced the power capacitors with one of Ken's kits. I have also replaced the 12BY7A tube with a good GE NOS tube. I plan to replace the existing (wrong) 6146A final tubes in the radio with a pair of NOS 6146B's that I just bought. I will check the other components as suggested. Any ideas welcome. Thanks again, Peter.

22101. Re: [TS-520_820_530_830] Re: BS8/BS5 module xtal change

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-17 22:02:32 UTC
From: J T
Topic: 22091 Message: 22101

Hi Frank,
I have a BS 5 in excellent condition which I would happily swap for a BS 8 if you are interested. You can contact me off list at "zl1dt (at) kinect.co.nz
Cheers
John
ZL1DT
----- Original Message -----
From: Frank VK5MFW
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, August 17, 2009 10:44 PM
Subject: [TS-520_820_530_830] Re: BS8/BS5 module xtal change

By the way here Guy's I'm talking about the BS5/BS8 modules fittd to a SM220, i might just go ahead and try the xtal change a see what happens..

--- In TS-520_820_530_830@yahoogroups.com, "Frank VK5MFW" <frankwoolfe@...> wrote:
>
> Howdy group,
> Has anyone changed the Oscillator xtal in a BS8 from the supplied 8.83mhz to 3.395 Mhz to in essance make it a BS5 and make it work with a 520 series?? All the circuit appears to be the same,, of course it would be after the 455Khz filter,, the only differance that may effect the operation of the xtal change would be the bandwitdh of T201. any comments please..cheers Frank VK5KV..
>

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22102. Homebrew SM-220 Two-Tone Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-17 22:38:25 UTC
From: unnorml
Topic: 22102 Message: 22102

Greetings all,

This Group has been great for resolving my previous problems.
I was hoping someone has constructed a Two-Tone cable for the SM-220 Station Monitor. I recently acquired a SM220 with the BS-5, for use with my recently acquired TS-520S, with out any cables.
I've made one from a mono phone cord, cut 1 end and attached to the microphone inputs (pins 1 & 4, 2 & 3 being the relay inputs) on a 4 pin mic plug. To my disappointment I can't seem to get the signal through for monitoring the single tone and two-tone modulation inputs. I am also wondering if I'm going through he process entirely wrong to begin with.
Following the manual, results in no tones. Also - should the tones just come through without the relay being energized or does the send switch come into play with this. I can't seem to figure this one out.

Any and all input would be greatly appreciated.

73,

Michael - KI4FDH

22103. Re: [TS-520_820_530_830] Homebrew SM-220 Two-Tone Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-18 00:02:29 UTC
From: Ken Winterling
Topic: 22102 Message: 22103

Michael,

First, I'll assume that your HB two-tone cable is wired with the center conductor to pin 1 and the shield to pin 4. You are correct, pin 2 is PTT and pin 3 is ground.

Since the two-tone oscillator is used to test the transmitter's output RF signal it is necessary to key the transmitter for the test. Think of the two-tone oscillator as a person who is continuously whistling into a microphone connected to a transmitter. If you don't key the transmitter PTT there will be no RF signal generated.

You were on the right track when you asked about the send switch. You could use that to put the rig into transmit for the test. Another option is using VOX. A third option, my preference, is to add a PTT switch to that HB cable you made. If you attach a push button switch to a convenient length of shielded cable (center conductor to mic pin 2, shield to mic pin 3) you can hold it one hand and press the button while making adjustments. This approach is faster than the other methods and doesn't lock the rig into transmit mode.

73,

Ken, WA2LBI

On Mon, Aug 17, 2009 at 18:38, unnorml <unnorml@...> wrote:

> Greetings all,
>
> This Group has been great for resolving my previous problems.
> I was hoping someone has constructed a Two-Tone cable for the SM-220
> Station Monitor. I recently acquired a SM220 with the BS-5, for use with my
> recently acquired TS-520S, with out any cables.
> I've made one from a mono phone cord, cut 1 end and attached to the
> microphone inputs (pins 1 & 4, 2 & 3 being the relay inputs) on a 4 pin mic
> plug. To my disappointment I can't seem to get the signal through for
> monitoring the single tone and two-tone modulation inputs. I am also
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> come through without the relay being energized or does the send switch come
> into play with this. I can't seem to figure this one out.
>
> Any and all input would be greatly appreciated.
>
> 73,
>
> Michael - KI4FDH

>

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22104. Re: Homebrew SM-220 Two-Tone Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-18 00:42:11 UTC
From: unnorml
Topic: 22102 Message: 22104

--- In TS-520_820_530_830@yahoogroups.com, Ken Winterling
Thanks for the response Ken,

Yes, I wired the HB cable as you had inquired.
Have been using the Send switch as well to get the tone through the transceiver. Still no tone, any ideas on what I may be doing wrong?

On a second subject, I modified the TS-520S (added the RG-174/U from the NB board to octal plug) to get the Pan Display going. My center mark moves with the rotation of the transceivers tuning knob and the background is stationary (hope I described this right), is this the intended operation?
As opposed to my center mark staying stationary and the background shifting as I tune. Otherwise I end up adjusting the Center Frequency Adjustment anytime I tune from that initial frequency.
Let me know if I to further describe this in order to make sense.

73,

Michael - KI4FDH

<wa2lbi@...> wrote:
>
> Michael,
>
> First, I'll assume that your HB two-tone cable is wired with the center
> conductor to pin 1 and the shield to pin 4. You are correct, pin 2 is PTT
> and pin 3 is ground.
>
> Since the two-tone oscillator is used to test the transmitter's output RF
> signal it is necessary to key the transmitter for the test. Think of the
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> microphone connected to a transmitter. If you don't key the transmitter PTT
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> use that to put the rig into transmit for the test. Another option is using
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> you made. If you attach a push button switch to a convenient length of
> shielded cable (center conductor to mic pin 2, shield to mic pin 3) you can
> hold it one hand and press the button while making adjustments. This
> approach is faster than the other methods and doesn't lock the rig into
> transmit mode.
>
> 73,
>
> Ken, WA2LBI

>
>
> On Mon, Aug 17, 2009 at 18:38, unnorml <unnorml@...> wrote:
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> > Greetings all,
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> > recently acquired TS-520S, with out any cables.
> > I've made one from a mono phone cord, cut 1 end and attached to the
> > microphone inputs (pins 1 & 4, 2 & 3 being the relay inputs) on a 4 pin mic
> > plug. To my disappointment I can't seem to get the signal through for
> > monitoring the single tone and two-tone modulation inputs. I am also
> > wondering if I'm going through he process entirely wrong to begin with.
> > Following the manual, results in no tones. Also - should the tones just
> > come through without the relay being energized or does the send switch come
> > into play with this. I can't seem to figure this one out.
> >
> > Any and all input would be greatly appreciated.
> >
> > 73,
> >
> > Michael - KI4FDH
> >
>
>
> [Non-text portions of this message have been removed]
>

22105. Pilot lamps for Golddust Twins (599 radios)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-18 02:53:26 UTC
From: jim_ag3y
Topic: 22105 Message: 22105

I have a set of the Golddust twins, (R-599 and T-599) and the pilot lamps have completely burned out in the receiver, and are almost gone in the transmitter.

The lamps are rated at 12 volts, and I believe 22 mA and look EXACTLY like the older style "LittleFuses"(tm)

I went to the auto parts store the other day, thinking that they would be readily available in some sort of bubble pack on the display shelves. WRONG !

Does anybody have a source for these lamps, or am I going to have to come up with some sort of miniature Christmas tree bulb modification ?

Any reply will be greatly appreciated.

Thanks in advance! 73, Jim

22106. Re: [TS-520_820_530_830] Pilot lamps for Golddust Twins (599 radios)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-18 04:47:42 UTC
From: L Kendall
Topic: 22105 Message: 22106

I assume you were unable to confirm with K4EAA they are the same as in some of the other Kenwood hybrids?

I just bought a 4-pack of those. They are 12 volt lamps. The bulbs are about 1/8" in diameter and 3/8" long, plus the leads of course.

Hope this helps.

On Tue, 2009-08-18 at 02:53 +0000, jim_ag3y wrote:

> I have a set of the Golddust twins, (R-599 and T-599) and the pilot lamps have completely burned out in the receiver, and are almost gone in the transmitter.
>
> The lamps are rated at 12 volts, and I believe 22 mA and look EXACTLY like the older style "LittleFuses"(tm)
>
> I went to the auto parts store the other day, thinking that they would be readily available in some sort of bubble pack on the display shelves. WRONG !
>
> Does anybody have a source for these lamps, or am I going to have to come up with some sort of miniature Christmas tree bulb modification ?
>
> Any reply will be greatly appreciated.
>
> Thanks in advance! 73, Jim
>
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

22107. Re: [TS-520_820_530_830] Re: Homebrew SM-220 Two-Tone Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-18 11:33:48 UTC
From: Ken Winterling
Topic: 22102 Message: 22107

Michael,

Let's back up a bit and run a test to verify that the two-tone generator is actually producing tones. Set up the SM-220 for use as an o'scope per the manual. Connect the two-tone generator output to the vertical input. Switch the two-tone generator from OFF to 1000 Hz to 1575 Hz and then to TWO TONE. Do you see output in all three positions?

Do you have the service manual for the SM-220? If not, I can e-mail it to you.

Regarding your second question, it has been years since I had a SM-220 in the shack so I can't look at it to verify your observations. I'm sure there are others "listening" who have them on line and can provide first-hand reports.

Ken, WA2LBI

On Mon, Aug 17, 2009 at 20:42, unnorml <unnorml@...> wrote:

> --- In TS-520_820_530_830@yahoogroups.com, Ken Winterling
> Thanks for the response Ken,
>
> Yes, I wired the HB cable as you had inquired.
> Have been using the Send switch as well to get the tone through the
> transceiver. Still no tone, any ideas on what I may be doing wrong?
>
> On a second subject, I modified the TS-520S (added the RG-174/U from the NB
> board to octal plug) to get the Pan Display going. My center mark moves with
> the rotation of the transceivers tuning knob and the background is
> stationary (hope I described this right), is this the intended operation?
> As opposed to my center mark staying stationary and the background shifting
> as I tune.
> Otherwise I end up adjusting the Center Frequency Adjustment anytime I tune
> from that initial frequency.
> Let me know if I to further describe this in order to make sense.
>
> 73,
>
> Michael - KI4FDH
>
> <wa2lbi@...> wrote:
> >
> > Michael,
> >
> > First, I'll assume that your HB two-tone cable is wired with the center

> > conductor to pin 1 and the shield to pin 4. You are correct, pin 2 is
> PTT
> > and pin 3 is ground.
> >
> > Since the two-tone oscillator is used to test the transmitter's output RF
> > signal it is necessary to key the transmitter for the test. Think of the
> > two-tone oscillator as a person who is continuously whistling into a
> > microphone connected to a transmitter. If you don't key the transmitter
> PTT
> > there will be no RF signal generated.
> >
> > You were on the right track when you asked about the send switch. You
> could
> > use that to put the rig into transmit for the test. Another option is
> using
> > VOX. A third option, my preference, is to add a PTT switch to that HB
> cable
> > you made. If you attach a push button switch to a convenient length of
> > shielded cable (center conductor to mic pin 2, shield to mic pin 3) you
> can
> > hold it one hand and press the button while making adjustments. This
> > approach is faster than the other methods and doesn't lock the rig into
> > transmit mode.
> >
> > 73,
> >
> > Ken, WA2LBI
> >
> >
> > On Mon, Aug 17, 2009 at 18:38, unnorml <unnorml@...> wrote:
> >
> > > Greetings all,
> > >
> > > This Group has been great for resolving my previous problems.
> > > I was hoping someone has constructed a Two-Tone cable for the SM-220
> > > Station Monitor. I recently acquired a SM220 with the BS-5, for use
> with my
> > > recently acquired TS-520S, with out any cables.
> > > I've made one from a mono phone cord, cut 1 end and attached to the
> > > microphone inputs (pins 1 & 4, 2 & 3 being the relay inputs) on a 4 pin
> mic
> > > plug. To my disappointment I can't seem to get the signal through for
> > > monitoring the single tone and two-tone modulation inputs. I am also
> > > wondering if I'm going through he process entirely wrong to begin with.
> > > Following the manual, results in no tones. Also - should the tones just
> > > come through without the relay being energized or does the send switch
> come
> > > into play with this. I can't seem to figure this one out.
> > >
> > > Any and all input would be greatly appreciated.

> > >
> > > 73,
> > >
> > > Michael - KI4FDH
> > >
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> > [Non-text portions of this message have been removed]
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22108. vfo 520s against vfo 820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-18 15:15:55 UTC
From: bornofthehorses
Topic: 22108 Message: 22108

Ok I have both the vfo 520s and the vfo 820 using the 520s cable for both on a TS 520s. Which is better and why, because to save me I can not tell any differents in the receive mode anyway (getting ready to test out in 3 weeks). So QST is a no no for now, just want any and alls input on the 2. The 1 that wins will live in the station the other will be available to a good home. Also whats the water like in the way of transmatch/antenna turners? All help welcome.
Ken
call_____ soon to be I hope

22109. Re: [TS-520_820_530_830] Pilot lamps for Golddust Twins (599radios)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-18 15:02:41 UTC
From: Jim Stanicek
Topic: 22109 Message: 22109

These lamps do not have leads. As mentioned, they are EXACTLY like the old "LittleFuse" and clip into the same kind of holders that you would find those fuses, consisting of two small spring clips mounted on an plastic bar shaped piece . Where did you purchase your package, Mouser ?

73, and thanks for any additional info.

Jim AG3Y

----- Original Message -----
From: L Kendall
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, August 18, 2009 12:47 AM
Subject: Re: [TS-520_820_530_830] Pilot lamps for Golddust Twins (599radios)

I assume you were unable to confirm with K4EAA they are the same as in
some of the other Kenwood hybrids?

I just bought a 4-pack of those. They are 12 volt lamps. The bulbs are
about 1/8" in diameter and 3/8" long, plus the leads of course.

Hope this helps.

On Tue, 2009-08-18 at 02:53 +0000, jim_ag3y wrote:

> I have a set of the Golddust twins, (R-599 and T-599) and the pilot lamps have completely burned out in the receiver, and are almost gone in the transmitter.
>
> The lamps are rated at 12 volts, and I believe 22 mA and look EXACTLY like the older style "LittleFuses"(tm)
>
> I went to the auto parts store the other day, thinking that they would be readily available in some sort of bubble pack on the display shelves. WRONG !
>
> Does anybody have a source for these lamps, or am I going to have to come up with some sort of miniature Christmas tree bulb modification ?
>
> Any reply will be greatly appreciated.
>
> Thanks in advance! 73, Jim
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[Non-text portions of this message have been removed]

22110. Re: [TS-520_820_530_830] Re: Homebrew SM-220 Two-Tone Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-18 18:00:40 UTC
From: Dave ve3wej
Topic: 22102 Message: 22110

have you confirmed that the tone output of the scope is actually working???

try it on a sound card???

have you verified that the audio lead is on the correct pin of the mike
jack, or the line in for phone patch leads (which are you using, i forgot if
you said)

----- Original Message -----
From: "unnorml" <unnorml@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, August 17, 2009 8:42 PM
Subject: [TS-520_820_530_830] Re: Homebrew SM-220 Two-Tone Cable

> --- In TS-520_820_530_830@yahoogroups.com, Ken Winterling
> Thanks for the response Ken,
>
> Yes, I wired the HB cable as you had inquired.
> Have been using the Send switch as well to get the tone through the
> transceiver. Still no tone, any ideas on what I may be doing wrong?
>
> On a second subject, I modified the TS-520S (added the RG-174/U from the
> NB board to octal plug) to get the Pan Display going. My center mark moves
> with the rotation of the transceivers tuning knob and the background is
> stationary (hope I described this right), is this the intended operation?
> As opposed to my center mark staying stationary and the background
> shifting as I tune.
> Otherwise I end up adjusting the Center Frequency Adjustment anytime I
> tune from that initial frequency.
> Let me know if I to further describe this in order to make sense.
>
> 73,
>
> Michael - KI4FDH
>
> <wa2lbi@...> wrote:
>>
>> Michael,
>>
>> First, I'll assume that your HB two-tone cable is wired with the center
>> conductor to pin 1 and the shield to pin 4. You are correct, pin 2 is
>> PTT
>> and pin 3 is ground.
>>
>> Since the two-tone oscillator is used to test the transmitter's output RF
>> signal it is necessary to key the transmitter for the test. Think of the

>> two-tone oscillator as a person who is continuously whistling into a
>> microphone connected to a transmitter. If you don't key the transmitter
>> PTT
>> there will be no RF signal generated.
>>
>> You were on the right track when you asked about the send switch. You
>> could
>> use that to put the rig into transmit for the test. Another option is
>> using
>> VOX. A third option, my preference, is to add a PTT switch to that HB
>> cable
>> you made. If you attach a push button switch to a convenient length of
>> shielded cable (center conductor to mic pin 2, shield to mic pin 3) you
>> can
>> hold it one hand and press the button while making adjustments. This
>> approach is faster than the other methods and doesn't lock the rig into
>> transmit mode.
>>
>> 73,
>>
>> Ken, WA2LBI
>>
>>
>> On Mon, Aug 17, 2009 at 18:38, unnorml <unnorml@...> wrote:
>>
>> > Greetings all,
>> >
>> > This Group has been great for resolving my previous problems.
>> > I was hoping someone has constructed a Two-Tone cable for the SM-220
>> > Station Monitor. I recently acquired a SM220 with the BS-5, for use
>> > with my
>> > recently acquired TS-520S, with out any cables.
>> > I've made one from a mono phone cord, cut 1 end and attached to the
>> > microphone inputs (pins 1 & 4, 2 & 3 being the relay inputs) on a 4 pin
>> > mic
>> > plug. To my disappointment I can't seem to get the signal through for
>> > monitoring the single tone and two-tone modulation inputs. I am also
>> > wondering if I'm going through he process entirely wrong to begin with.
>> > Following the manual, results in no tones. Also - should the tones just
>> > come through without the relay being energized or does the send switch
>> > come
>> > into play with this. I can't seem to figure this one out.
>> >
>> > Any and all input would be greatly appreciated.
>> >
>> > 73,
>> >
>> > Michael - KI4FDH
>> >
>>

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22111. Re: [TS-520_820_530_830] Pilot lamps for Golddust Twins (599radios)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-18 18:14:26 UTC
From: pmarkavage
Topic: 22109 Message: 22111

Jim:
They're called "Fuse" type lamps. Parts Express has them in 6, 8, and 12 volt versions. They were the lamp rage back in the 70's for panel and dial lighting. Many 70's hi-fi stuff also used them.
Click the link. Watch for wrap around.
http://www.parts-express.com/wizards/searchResults.cfm?srchExt=CAT&srchCat=287&CFID=13800677&CFTOKEN=49677502

Or just go to Parts Express,
http://www.parts-express.com/home.cfm
and Search for Fuse Lamps.

Pete, wa2cwa

On Tue, 18 Aug 2009 11:02:41 -0400 "Jim Stanicek" <jimstan@...> writes:
> These lamps do not have leads. As mentioned, they are EXACTLY like
> the old "LittleFuse" and clip into the same kind of holders that you
> would find those fuses, consisting of two small spring clips mounted
> on an plastic bar shaped piece . Where did you purchase your
> package, Mouser ?
>
> 73, and thanks for any additional info.
>
> Jim AG3Y
>
> ----- Original Message -----
> From: L Kendall
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, August 18, 2009 12:47 AM
> Subject: Re: [TS-520_820_530_830] Pilot lamps for Golddust Twins (
> 599radios)
>
>
> I assume you were unable to confirm with K4EAA they are the same
> as in
> some of the other Kenwood hybrids?
>
> I just bought a 4-pack of those. They are 12 volt lamps. The bulbs
> are
> about 1/8" in diameter and 3/8" long, plus the leads of course.
>
> Hope this helps.
>
> On Tue, 2009-08-18 at 02:53 +0000, jim_ag3y wrote:
>

> > I have a set of the Golddust twins, (R-599 and T-599) and the
> pilot lamps have completely burned out in the receiver, and are
> almost gone in the transmitter.
> >
> > The lamps are rated at 12 volts, and I believe 22 mA and look
> EXACTLY like the older style "LittleFuses"(tm)
> >
> > I went to the auto parts store the other day, thinking that they
> would be readily available in some sort of bubble pack on the
> display shelves. WRONG !
> >
> > Does anybody have a source for these lamps, or am I going to
> have to come up with some sort of miniature Christmas tree bulb
> modification ?
> >
> > Any reply will be greatly appreciated.
> >
> > Thanks in advance! 73, Jim
> >
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22112. RE: [TS-520_820_530_830] Pilot lamps for Golddust Twins (599radios)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-18 18:16:08 UTC
From: L K
Topic: 22109 Message: 22112

Sorry, what I have is a different lamp entirely.

It's the PL-4 from K4EAA's web page.

-----Original Message-----
From: "Jim Stanicek" <jimstan@myactv.net>
To: TS-520_820_530_830@yahoogroups.com
Sent: 8/18/2009 10:02 AM
Subject: Re: [TS-520_820_530_830] Pilot lamps for Golddust Twins (599radios)

These lamps do not have leads. As mentioned, they are EXACTLY like the old "LittleFuse" and clip into the same kind of holders that you would find those fuses, consisting of two small spring clips mounted on an plastic bar shaped piece . Where did you purchase your package, Mouser ?

73, and thanks for any additional info.

Jim AG3Y

----- Original Message -----
From: L Kendall
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, August 18, 2009 12:47 AM
Subject: Re: [TS-520_820_530_830] Pilot lamps for Golddust Twins (599radios)

I assume you were unable to confirm with K4EAA they are the same as in
some of the other Kenwood hybrids?

I just bought a 4-pack of those. They are 12 volt lamps. The bulbs are
about 1/8" in diameter and 3/8" long, plus the leads of course.

Hope this helps.

On Tue, 2009-08-18 at 02:53 +0000, jim_ag3y wrote:

> I have a set of the Golddust twins, (R-599 and T-599) and the pilot lamps have completely burned out in the receiver, and are almost gone in the transmitter.
>
> The lamps are rated at 12 volts, and I believe 22 mA and look EXACTLY like the older style "LittleFuses"(tm)
>
> I went to the auto parts store the other day, thinking that they would be readily available in some sort of bubble pack on the display shelves. WRONG !
>
> Does anybody have a source for these lamps, or am I going to have to come up with some sort of miniature Christmas tree bulb modification ?
>
> Any reply will be greatly appreciated.

>
> Thanks in advance! 73, Jim
>
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Yahoo! Groups Links

22113. Re: [TS-520_820_530_830] Pilot lamps for Golddust Twins (599 radios)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-18 18:25:45 UTC
From: vlincoln@frontiernet.net
Topic: 22105 Message: 22113

check these out, they are called "fuse lamps"

http://www.wjoe.com/diallamps.htm

At 02:53 8/18/2009, you wrote:
>
>
>I have a set of the Golddust twins, (R-599 and T-599) and the
>pilot lamps have completely burned out in the receiver, and are
>almost gone in the transmitter.
>
>The lamps are rated at 12 volts, and I believe 22 mA and look
>EXACTLY like the older style "LittleFuses"(tm)
>
>I went to the auto parts store the other day, thinking that they
>would be readily available in some sort of bubble pack on the
>display shelves. WRONG !
>
>Does anybody have a source for these lamps, or am I going to have to
>come up with some sort of miniature Christmas tree bulb modification ?
>
>Any reply will be greatly appreciated.
>
>Thanks in advance! 73, Jim
>
>

[Non-text portions of this message have been removed]

22114. Re: vfo 520s against vfo 820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-18 19:29:59 UTC
From: w5rkl
Topic: 22108 Message: 22114

Ken,

Other than cosmetic and physical case difference, both VFO-520
and VFO-820 are the same. As you have found out, the VFO-820 will
plug into and work just fine with a TS-520 and vice verse with
the VFO-520.

Having said that, the VFO-520 and the VFO-820 will NOT plug into
nor will they work with the TS-530 and TS-830 series transceivers.
In addition, the VFO-230 and the VFO-240 will not plug into nor
will they work with the TS-520 and TS-820 transceivers.

There are a variety of tuners available on the market today.
Manual, automatic, desktop or remote mounting, as well as
unbalanced or balanced output. It all depends on your situation
and desires/needs. Don't discount older tuners from Johnson,
Drake, and others. They produce the same results as tuner sold
today.

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "bornofthehorses" <bornofthehorses@...> wrote:
>
> Ok I have both the vfo 520s and the vfo 820 using the 520s cable for both on a TS 520s.
Which is better and why, because to save me I can not tell any differents in the receive
mode anyway (getting ready to test out in 3 weeks). So QST is a no no for now, just want
any and alls input on the 2. The 1 that wins will live in the station the other will be
available to a good home. Also whats the water like in the way of transmatch/antenna
turners? All help welcome.
> Ken
> call_______ soon to be I hope
>

22115. RE: [TS-520_820_530_830] Re: vfo 520s against vfo 820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-18 20:02:26 UTC
From: Greg Anders
Topic: 22108 Message: 22115

I have owned many tuners over the years. Drake MN-200/2000's are excellent, so are Dentron's. Even the Heathkit SA2040 and 2060 will match just about anything on 80-10M. IF you desire to keep the "Kenwood" look, the AT230 is a good tuner too.

Greg
KG6YV
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
Sent: Tuesday, August 18, 2009 12:30 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: vfo 520s against vfo 820

Ken,

Other than cosmetic and physical case difference, both VFO-520 and VFO-820 are the same. As you have found out, the VFO-820 will plug into and work just fine with a TS-520 and vice verse with the VFO-520.

Having said that, the VFO-520 and the VFO-820 will NOT plug into nor will they work with the TS-530 and TS-830 series transceivers. In addition, the VFO-230 and the VFO-240 will not plug into nor will they work with the TS-520 and TS-820 transceivers.

There are a variety of tuners available on the market today. Manual, automatic, desktop or remote mounting, as well as unbalanced or balanced output. It all depends on your situation and desires/needs. Don't discount older tuners from Johnson, Drake, and others. They produce the same results as tuner sold today.

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "bornofthehorses" <bornofthehorses@...> wrote:
>
> Ok I have both the vfo 520s and the vfo 820 using the 520s cable for both on a TS 520s. Which is better and why, because to save me I can not tell any differents in the receive mode anyway (getting ready to test out in 3 weeks). So QST is a no no for now, just want any and alls input on the 2. The 1 that wins will live in the station the other will be available to a good home. Also whats the water like in the way of transmatch/antenna turners? All help welcome.
> Ken
> call_____ soon to be I hope
>

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22116. RE: [TS-520_820_530_830] Re: vfo 520s against vfo 820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-18 23:22:17 UTC
From: ken bolin
Topic: 22108 Message: 22116

Thanks I found a mfj 949c gives me coax and line feed which I want to set up both I am worried about the voltage rating on the caps. Can it be done and is it wise to change out the caps to higher ratings? I have skits for all 3 of the 949s c b and e. Or did I just waste some money?

--- On Tue, 8/18/09, Greg Anders <greg.anders@...> wrote:

From: Greg Anders <greg.anders@...>
Subject: RE: [TS-520_820_530_830] Re: vfo 520s against vfo 820
To: "TS-520_820_530_830@yahoogroups.com" <TS-520_820_530_830@yahoogroups.com>
Date: Tuesday, August 18, 2009, 1:02 PM

I have owned many tuners over the years. Drake MN-200/2000's are excellent, so are Dentron's. Even the Heathkit SA2040 and 2060 will match just about anything on 80-10M. IF you desire to keep the "Kenwood" look, the AT230 is a good tuner too.

Greg
KG6YV
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
Sent: Tuesday, August 18, 2009 12:30 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: vfo 520s against vfo 820

Ken,

Other than cosmetic and physical case difference, both VFO-520
and VFO-820 are the same. As you have found out, the VFO-820 will
plug into and work just fine with a TS-520 and vice verse with
the VFO-520.

Having said that, the VFO-520 and the VFO-820 will NOT plug into
nor will they work with the TS-530 and TS-830 series transceivers.
In addition, the VFO-230 and the VFO-240 will not plug into nor
will they work with the TS-520 and TS-820 transceivers.

There are a variety of tuners available on the market today.
Manual, automatic, desktop or remote mounting, as well as
unbalanced or balanced output. It all depends on your situation
and desires/needs. Don't discount older tuners from Johnson,
Drake, and others. They produce the same results as tuner sold
today.

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "bornofthehorses" <bornofthehorses@...> wrote:
>
> Ok I have both the vfo 520s and the vfo 820 using the 520s cable for both on a TS 520s. Which is better and why, because to save me I can not tell any differents in the receive mode anyway (getting ready to test out in 3 weeks). So QST is a no no for now, just want any and alls input on the 2. The 1 that wins will live in the station the other will be available to a good home. Also whats the water like in the way of transmatch/antenna turners? All help welcome.
> Ken
> call_____ soon to be I hope
>

[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

22117. DG-5

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-19 00:49:09 UTC
From: Bob Singer
Topic: 20533 Message: 22117

Anyone have any experience with the DG-5? I have one that when I got it, just randomly counted. I have the manual and schematic for it. I googled it and found some common problems. I went through it and soldered wires through all the solder through holes (82 of them), cleaned the board, cleaned the rca jacks and put it back together. Only got one segment on each number plus the dot. Pulled the display off again and used emery cloth on the display pins and put it back together. This time, I got all the digits but here is what it is doing. In the 14mhz range, it reads correctly to 14.099 then it goes to 18.100 up thru .399 (that's 14.399 actual) then it goes to 18.000. On 7.000mhz, it reads 3.000 and counts up until it gets to 3.399 (7.399 actual) and then goes back to 3.000. On 3.5mhz range, it starts out at 3.000 then at 3.100, it jumps to 3.200 and at 3.399, it jumps to 3.880. I have also taken out the screws on the board and cleaned the ground points and reassembled it. Any body seen this before and found a fix?

Thanks.
Bob
kd0eez

22118. Re: [TS-520_820_530_830] DG-5

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-19 01:07:26 UTC
From: Bob Singer
Topic: 20533 Message: 22118

Oh, let me add one other thing. The cables that connect the DG-5 to my TS-520S are single, thin cables that are shielded with a very thin diameter center conductor. Are they adequate?

Bob Singer wrote:
>
>
> Anyone have any experience with the DG-5? I have one that when I got
> it, just randomly counted. I have the manual and schematic for it. I
> googled it and found some common problems. I went through it and
> soldered wires through all the solder through holes (82 of them),
> cleaned the board, cleaned the rca jacks and put it back together. Only
> got one segment on each number plus the dot. Pulled the display off
> again and used emery cloth on the display pins and put it back
> together. This time, I got all the digits but here is what it is
> doing. In the 14mhz range, it reads correctly to 14.099 then it goes to
> 18.100 up thru .399 (that's 14.399 actual) then it goes to 18.000. On
> 7.000mhz, it reads 3.000 and counts up until it gets to 3.399 (7.399
> actual) and then goes back to 3.000. On 3.5mhz range, it starts out at
> 3.000 then at 3.100, it jumps to 3.200 and at 3.399, it jumps to 3.880.
> I have also taken out the screws on the board and cleaned the ground
> points and reassembled it. Any body seen this before and found a fix?
>
> Thanks.
> Bob
> kd0eez
>
>

22119. Re: [TS-520_820_530_830] Re: vfo 520s against vfo 820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-19 00:06:15 UTC
From: ken bolin
Topic: 22108 Message: 22119

I thing I do see is the 520s has a 100 to 600 coverage and the 820 does not, it goes from 100 to 500 but you get it broke down better with the insert breaking down that stream into 10ths on the crank. As for the tuners I have been on ebay trying AND KEEP LOSING to get a few Drakes and a Johnson that showed up. I did secure a MFJ-949c any good or did I waste some money?

--- On Tue, 8/18/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: vfo 520s against vfo 820
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, August 18, 2009, 12:29 PM

Ken,

Other than cosmetic and physical case difference, both VFO-520
and VFO-820 are the same. As you have found out, the VFO-820 will
plug into and work just fine with a TS-520 and vice verse with
the VFO-520.

Having said that, the VFO-520 and the VFO-820 will NOT plug into
nor will they work with the TS-530 and TS-830 series transceivers.
In addition, the VFO-230 and the VFO-240 will not plug into nor
will they work with the TS-520 and TS-820 transceivers.

There are a variety of tuners available on the market today.
Manual, automatic, desktop or remote mounting, as well as
unbalanced or balanced output. It all depends on your situation
and desires/needs. Don't discount older tuners from Johnson,
Drake, and others. They produce the same results as tuner sold
today.

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "bornofthehorses" <bornofthehorses@...> wrote:
>
> Ok I have both the vfo 520s and the vfo 820 using the 520s cable for both on a TS 520s. Which is better and why, because to save me I can not tell any differents in the receive mode anyway (getting ready to test out in 3 weeks). So QST is a no no for now, just want any and alls input on the 2. The 1 that wins will live in the station the other will be available to a good home. Also whats the water like in the way of transmatch/antenna turners? All help welcome.
> Ken
> call_______ soon to be I hope
>

Yahoo! Groups Links

[Non-text portions of this message have been removed]

22120. Help: TS530-S No Power Output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-19 02:20:14 UTC
From: j.athon
Topic: 22120 Message: 22120

Hello All,

I recentley purchased a TS530-S, assured it was working perfectly !
The receiver performs fine on all Bands. However the plastic insulator connecting the band swich in the PA section is broken, so I assume that the rig has been set to transmit with a mis match between the selected band and the Band swith position in the P.A. I don't know if this could cause damage or not.
The HV is reading Ok at 800v. I have good ALC reading with adjustment of the drive control in transmit, good Bias Current at 60mA, and 100mA of IP in the Tune/ Send mode. However, the Load and Plate controls do not have any effect, and there is no power output at all. I have tried matching the selected band with the coirrect setting in the PA bandswitch, no effect. I can hear a carrier on an adjacent receiver, but I assume this is just from the Driver section signal only.
Additional info: It is obvious that the rig has been dropped. There are severe impact marks on the outer case, the main tuning shaft is badly bent, and the feet on the bottom are also impact damaged.
I have tried replacing the Driver tube to no effect. The PA tubes do glow with plate current applied.I have no other PA tubed to try in case they are bad. How can you test them?

Any suggestions on where to start would be appreciated, as I would love to get this fine old rig running again.Used to own a TS520 and an
830S.

Thanksinadvance

Steve
KD8EJZ / G4DFN

22121. Re: [TS-520_820_530_830] Help: TS530-S No Power Output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-19 02:35:08 UTC
From: Lou Blasco
Topic: 22120 Message: 22121

Hi Steve,

I would start with the VFO. If the main shaft is badly bent I think I'd be looking to see if I can repair that first. A VFO that doesn't tune smoothly is a real pain on these sets. Does it receive ok on all bands? I think if you can get it to RX well on bands you have at least a fighting chance that most of the set is working. A dropped radio could have plenty of other problems and remain intermittent forever. Depending on the amount of physical damage you might want to consider using it as a parts radio.

best of luck

Lou
VK3ALB

At 12:20 PM 19/08/2009, you wrote:
>Hello All,
>
>I recentley purchased a TS530-S, assured it was working perfectly !
>The receiver performs fine on all Bands. However the plastic
>insulator connecting the band swich in the PA section is broken, so
>I assume that the rig has been set to transmit with a mis match
>between the selected band and the Band swith position in the P.A. I
>don't know if this could cause damage or not.
>The HV is reading Ok at 800v. I have good ALC reading with
>adjustment of the drive control in transmit, good Bias Current at
>60mA, and 100mA of IP in the Tune/ Send mode. However, the Load and
>Plate controls do not have any effect, and there is no power output
>at all. I have tried matching the selected band with the coirrect
>setting in the PA bandswitch, no effect. I can hear a carrier on an
>adjacent receiver, but I assume this is just from the Driver section
>signal only.
>Additional info: It is obvious that the rig has been dropped. There
>are severe impact marks on the outer case, the main tuning shaft is
>badly bent, and the feet on the bottom are also impact damaged.
>I have tried replacing the Driver tube to no effect. The PA tubes do
>glow with plate current applied.I have no other PA tubed to try in
>case they are bad. How can you test them?
>
>Any suggestions on where to start would be appreciated, as I would
>love to get this fine old rig running again.Used to own a TS520 and an
>830S.
>
>Thanksinadvance
>

>Steve
>KD8EJZ / G4DFN

22122. Re: [TS-520_820_530_830] Pilot lamps for Golddust Twins (599radios)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-19 02:45:43 UTC
From: Jim Stanicek
Topic: 22109 Message: 22122

I see what you meant by "wrap around". You were referring to the 3rd line in the URL!
Gotcha !

I will order those lamps tomorrow. They certainly are inexpensive enough, but I will have to see
what S & H are going to run me. I might purchas a Wahl cordless soldering iron. I haven't had
one of those for a LONG time !

Thanks for the link ! 73, Jim

----- Original Message -----
From: pmarkavage
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, August 18, 2009 2:14 PM
Subject: Re: [TS-520_820_530_830] Pilot lamps for Golddust Twins (599radios)

Jim:
They're called "Fuse" type lamps. Parts Express has them in 6, 8, and 12
volt versions. They were the lamp rage back in the 70's for panel and
dial lighting. Many 70's hi-fi stuff also used them.
Click the link. Watch for wrap around.
http://www.parts-express.com/wizards/searchResults.cfm?srchExt=CAT&srchCa
t=287&CFID=13800677&CFTOKEN=49677502

Or just go to Parts Express,
http://www.parts-express.com/home.cfm
and Search for Fuse Lamps.

Pete, wa2cwa

On Tue, 18 Aug 2009 11:02:41 -0400 "Jim Stanicek" <jimstan@...>
writes:
> These lamps do not have leads. As mentioned, they are EXACTLY like
> the old "LittleFuse" and clip into the same kind of holders that you
> would find those fuses, consisting of two small spring clips mounted
> on an plastic bar shaped piece . Where did you purchase your
> package, Mouser ?
>
> 73, and thanks for any additional info.
>
> Jim AG3Y
>
> ----- Original Message -----
> From: L Kendall
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, August 18, 2009 12:47 AM

> Subject: Re: [TS-520_820_530_830] Pilot lamps for Golddust Twins (
> 599radios)
>
>
> I assume you were unable to confirm with K4EAA they are the same
> as in
> some of the other Kenwood hybrids?
>
> I just bought a 4-pack of those. They are 12 volt lamps. The bulbs
> are
> about 1/8" in diameter and 3/8" long, plus the leads of course.
>
> Hope this helps.
>
> On Tue, 2009-08-18 at 02:53 +0000, jim_ag3y wrote:
>
> > I have a set of the Golddust twins, (R-599 and T-599) and the
> pilot lamps have completely burned out in the receiver, and are
> almost gone in the transmitter.
> >
> > The lamps are rated at 12 volts, and I believe 22 mA and look
> EXACTLY like the older style "LittleFuses"(tm)
> >
> > I went to the auto parts store the other day, thinking that they
> would be readily available in some sort of bubble pack on the
> display shelves. WRONG !
> >
> > Does anybody have a source for these lamps, or am I going to
> have to come up with some sort of miniature Christmas tree bulb
> modification ?
> >
> > Any reply will be greatly appreciated.
> >
> > Thanks in advance! 73, Jim
> >
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22123. RE: [TS-520_820_530_830] Re: vfo 520s against vfo 820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-19 06:24:35 UTC
From: Gordon JC Pearce
Topic: 22108 Message: 22123

On Tue, 2009-08-18 at 16:22 -0700, ken bolin wrote:
> Thanks I found a mfj 949c gives me coax and line feed which I want to
> set up both I am worried about the voltage rating on the caps. Can it
> be done and is it wise to change out the caps to higher ratings? I
> have skits for all 3 of the 949s c b and e. Or did I just waste some
> money?

The MFJ949 will work pretty well with the TS-520 and friends. I don't entirely understand what you're asking about the capacitors. The 949 will arc across if you're trying to match an extremely too short aerial on 80m, so do try to avoid doing that. The TS-520 doesn't put out any higher voltage than any other 100W radio - 100W into 50 ohms is how many volts? Come on, without looking it up, it's on the exam ;-)

It's also worth bearing in mind that if your aerial is approximately right (say a half-wave dipole or quarter-wave vertical - anything resonant with about 50 ohms impedance) then the TS-520 and friends will probably match it anyway. That pi network you need to tune up with the PLATE and LOAD controls is really just an ATU.

Gordon 2M0YEQ

22124. Re: vfo 520s against vfo 820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-19 16:21:03 UTC
From: w5rkl
Topic: 22108 Message: 22124

Ken,

All VFO sub and main dials start at zero, not 100. If the sub dial on
your 520 transceiver OR remote VFO-520 will not tune down to zero,
that is a mechanical dial alignment issue not a compatibility issue.

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, ken bolin <bornofthehorses@...> wrote:
>
> I thing I do see is the 520s has a 100 to 600 coverage and the 820 does not, it goes from 100 to 500 but you get it broke down better with the insert breaking down that stream into 10ths on the crank. As for the tuners I have been on ebay trying AND KEEP LOSING to get a few Drakes and a Johnson that showed up. I did secure a MFJ-949c any good or did I waste some money?
>
> --- On Tue, 8/18/09, w5rkl <w5rkl@...> wrote:
>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: vfo 520s against vfo 820
> To: TS-520_820_530_830@yahoogroups.com
> Date: Tuesday, August 18, 2009, 12:29 PM
>
>
> Ken,
>
> Other than cosmetic and physical case difference, both VFO-520
> and VFO-820 are the same. As you have found out, the VFO-820 will
> plug into and work just fine with a TS-520 and vice verse with
> the VFO-520.
>
> Having said that, the VFO-520 and the VFO-820 will NOT plug into
> nor will they work with the TS-530 and TS-830 series transceivers.
> In addition, the VFO-230 and the VFO-240 will not plug into nor
> will they work with the TS-520 and TS-820 transceivers.
>
> There are a variety of tuners available on the market today.
> Manual, automatic, desktop or remote mounting, as well as
> unbalanced or balanced output. It all depends on your situation
> and desires/needs. Don't discount older tuners from Johnson,
> Drake, and others. They produce the same results as tuner sold
> today.
>
> 73

> Mike W5RKL
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "bornofthehorses" <bornofthehorses@> wrote:
> >
> > Ok I have both the vfo 520s and the vfo 820 using the 520s cable for both on a TS 520s. Which is better and why, because to save me I can not tell any differents in the receive mode anyway (getting ready to test out in 3 weeks). So QST is a no no for now, just want any and alls input on the 2. The 1 that wins will live in the station the other will be available to a good home. Also whats the water like in the way of transmatch/antenna turners? All help welcome.
> > Ken
> > call_____ soon to be I hope
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22125. Re: vfo 520s against vfo 820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-19 16:59:54 UTC
From: w5rkl
Topic: 22108 Message: 22125

Hello Ken and others,

The Drake low power tuner is an MN-4 not an MN-200. The MN-4 has
a maximum power rating of 200 watts. The MN-2000 has a maximum
power rating of 2KW. I have both of the Drake tuners in my shack.

The MFJ-949C tuner has a maximum power rating of 300 watts
which is well within the PEP output of a TS-520.

The Drake MN-4, MN-2000, or MFJ-939C, will work fine with a TS-520.
I do not recommend using a tuner with a maximum power rating that
is less than 200 watts with any 100 watt exciter. Always consider a
safety margin when selecting tuners.

As for replacing any of the capacitors in the MFJ-949C tuner,
unless there is evidence of damage to any of the capacitors, I do
NOT recommend changing any of them. If there "is" damage to one
or more capacitors, contact MFJ for replacement parts. Installing
a replacement capacitors with the wrong rating can result in
damage to the new capacitor as well as possibly other components.

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, ken bolin <bornofthehorses@...> wrote:
>
> Thanks I found a mfj 949c gives me coax and line feed which I want to set up both I am worried about the voltage rating on the caps. Can it be done and is it wise to change out the caps to higher ratings? I have skits for all 3 of the 949s c b and e. Or did I just waste some money?
>
> --- On Tue, 8/18/09, Greg Anders <greg.anders@...> wrote:
>
>
> From: Greg Anders <greg.anders@...>
> Subject: RE: [TS-520_820_530_830] Re: vfo 520s against vfo 820
> To: "TS-520_820_530_830@yahoogroups.com" <TS-520_820_530_830@yahoogroups.com>
> Date: Tuesday, August 18, 2009, 1:02 PM
>
>
> I have owned many tuners over the years. Drake MN-200/2000's are excellent, so are Dentron's. Even the Heathkit SA2040 and 2060 will match just about anything on 80-10M.
> IF you desire to keep the "Kenwood" look, the AT230 is a good tuner too.
>
> Greg
> KG6YV

> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
> Sent: Tuesday, August 18, 2009 12:30 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: vfo 520s against vfo 820
>
>
>
> Ken,
>
> Other than cosmetic and physical case difference, both VFO-520
> and VFO-820 are the same. As you have found out, the VFO-820 will
> plug into and work just fine with a TS-520 and vice verse with
> the VFO-520.
>
> Having said that, the VFO-520 and the VFO-820 will NOT plug into
> nor will they work with the TS-530 and TS-830 series transceivers.
> In addition, the VFO-230 and the VFO-240 will not plug into nor
> will they work with the TS-520 and TS-820 transceivers.
>
> There are a variety of tuners available on the market today.
> Manual, automatic, desktop or remote mounting, as well as
> unbalanced or balanced output. It all depends on your situation
> and desires/needs. Don't discount older tuners from Johnson,
> Drake, and others. They produce the same results as tuner sold
> today.
>
> 73
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "bornofthehorses" <bornofthehorses@> wrote:
> >
> > Ok I have both the vfo 520s and the vfo 820 using the 520s cable for both on a TS 520s. Which is better and why, because to save me I can not tell any differents in the receive mode anyway (getting ready to test out in 3 weeks). So QST is a no no for now, just want any and alls input on the 2. The 1 that wins will live in the station the other will be available to a good home. Also whats the water like in the way of transmatch/antenna turners? All help welcome.
> > Ken
> > call_______ soon to be I hope
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22126. Re: vfo 520s against vfo 820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-19 12:59:38 UTC
From: bornofthehorses
Topic: 22108 Message: 22126

The cap replacement I was talking about are in the 949c in the e the voltage on the caps is higher. Some of the resistors are higher wattage also, it looks like they are in the dummy load section. That would be 70.71067811865475 Volts e=SQRT P*R I always keep my Edmund ohms law cardboard spin wheel handy. As for wave cut I have 4 ac Sq 2 on 2 frontage so I can RRRRUNN wire at just about any wave %, plus I have nothing but desert on all 4 sides so if I need to go over all is well.Thanks keep it coming oh did I pass?
Ken
call_____to be available soon

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce <gordon@...> wrote:
>
> On Tue, 2009-08-18 at 16:22 -0700, ken bolin wrote:
> > Thanks I found a mfj 949c gives me coax and line feed which I want to
> > set up both I am worried about the voltage rating on the caps. Can it
> > be done and is it wise to change out the caps to higher ratings? I
> > have skits for all 3 of the 949s c b and e. Or did I just waste some
> > money?
>
> The MFJ949 will work pretty well with the TS-520 and friends. I don't
> entirely understand what you're asking about the capacitors. The 949
> will arc across if you're trying to match an extremely too short aerial
> on 80m, so do try to avoid doing that. The TS-520 doesn't put out any
> higher voltage than any other 100W radio - 100W into 50 ohms is how many
> volts? Come on, without looking it up, it's on the exam ;-)
>
> It's also worth bearing in mind that if your aerial is approximately
> right (say a half-wave dipole or quarter-wave vertical - anything
> resonant with about 50 ohms impedance) then the TS-520 and friends will
> probably match it anyway. That pi network you need to tune up with the
> PLATE and LOAD controls is really just an ATU.
>
> Gordon 2M0YEQ
>

22127. Re: [TS-520_820_530_830] Re: vfo 520s against vfo 820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-19 17:43:25 UTC
From: ken bolin
Topic: 22108 Message: 22127

Ok thanks sounds like a plan I have no need to go past 300 watts any time soon anyway if and when that comes I WILL JUST BID HARDER for a Johnson or Drake next time one shows up. As for getting the dummy beefed up on the 949c I just found a design in an old ARRL Handbook for a 1000w Cantenna that should do the trick. Now if I can just find a cw filter YG-3395c for the TS-520s or and out board box to do the trick I would be set for the most part.

Ken

--- On Wed, 8/19/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: vfo 520s against vfo 820
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, August 19, 2009, 9:59 AM

Hello Ken and others,

The Drake low power tuner is an MN-4 not an MN-200. The MN-4 has
a maximum power rating of 200 watts. The MN-2000 has a maximum
power rating of 2KW. I have both of the Drake tuners in my shack.

The MFJ-949C tuner has a maximum power rating of 300 watts
which is well within the PEP output of a TS-520.

The Drake MN-4, MN-2000, or MFJ-939C, will work fine with a TS-520.
I do not recommend using a tuner with a maximum power rating that
is less than 200 watts with any 100 watt exciter. Always consider a
safety margin when selecting tuners.

As for replacing any of the capacitors in the MFJ-949C tuner,
unless there is evidence of damage to any of the capacitors, I do
NOT recommend changing any of them. If there "is" damage to one
or more capacitors, contact MFJ for replacement parts. Installing
a replacement capacitors with the wrong rating can result in
damage to the new capacitor as well as possibly other components.

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, ken bolin <bornofthehorses@...> wrote:
>
> Thanks I found a mfj 949c gives me coax and line feed which I want to set up both I am worried about the voltage rating on the caps. Can it be done and is it wise to change out the caps to higher ratings? I have skits for all 3 of the 949s c b and e. Or did I just waste some money?
>

> --- On Tue, 8/18/09, Greg Anders <greg.anders@...> wrote:
>
>
> From: Greg Anders <greg.anders@...>
> Subject: RE: [TS-520_820_530_830] Re: vfo 520s against vfo 820
> To: "TS-520_820_530_830@yahoogroups.com" <TS-520_820_530_830@yahoogroups.com>
> Date: Tuesday, August 18, 2009, 1:02 PM
>
>
> I have owned many tuners over the years. Drake MN-200/2000's are excellent, so are Dentron's. Even the Heathkit SA2040 and 2060 will match just about anything on 80-10M.
> IF you desire to keep the "Kenwood" look, the AT230 is a good tuner too.
>
> Greg
> KG6YV
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
> Sent: Tuesday, August 18, 2009 12:30 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: vfo 520s against vfo 820
>
>
>
> Ken,
>
> Other than cosmetic and physical case difference, both VFO-520
> and VFO-820 are the same. As you have found out, the VFO-820 will
> plug into and work just fine with a TS-520 and vice verse with
> the VFO-520.
>
> Having said that, the VFO-520 and the VFO-820 will NOT plug into
> nor will they work with the TS-530 and TS-830 series transceivers.
> In addition, the VFO-230 and the VFO-240 will not plug into nor
> will they work with the TS-520 and TS-820 transceivers.
>
> There are a variety of tuners available on the market today.
> Manual, automatic, desktop or remote mounting, as well as
> unbalanced or balanced output. It all depends on your situation
> and desires/needs. Don't discount older tuners from Johnson,
> Drake, and others. They produce the same results as tuner sold
> today.
>
> 73
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "bornofthehorses" <bornofthehorses@> wrote:
> >
> > Ok I have both the vfo 520s and the vfo 820 using the 520s cable for both on a TS 520s. Which is better and why, because to save me I can not tell any differents in the receive

mode anyway (getting ready to test out in 3 weeks). So QST is a no no for now, just want any and alls input on the 2. The 1 that wins will live in the station the other will be available to a good home. Also whats the water like in the way of transmatch/antenna turners? All help welcome.
> > Ken
> > call_____ soon to be I hope
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Yahoo! Groups Links

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22128. Re: vfo 520s against vfo 820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-19 13:09:45 UTC
From: bornofthehorses
Topic: 22108 Message: 22128

I also keep my cardboard kirchhoffs law and resistor slide rule handy also. That got my brain ticking can you bring those into the test area and use them?
Thanks Ken

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce <gordon@...> wrote:
>
> On Tue, 2009-08-18 at 16:22 -0700, ken bolin wrote:
> > Thanks I found a mfj 949c gives me coax and line feed which I want to
> > set up both I am worried about the voltage rating on the caps. Can it
> > be done and is it wise to change out the caps to higher ratings? I
> > have skits for all 3 of the 949s c b and e. Or did I just waste some
> > money?
>
> The MFJ949 will work pretty well with the TS-520 and friends. I don't
> entirely understand what you're asking about the capacitors. The 949
> will arc across if you're trying to match an extremely too short aerial
> on 80m, so do try to avoid doing that. The TS-520 doesn't put out any
> higher voltage than any other 100W radio - 100W into 50 ohms is how many
> volts? Come on, without looking it up, it's on the exam ;-)
>
> It's also worth bearing in mind that if your aerial is approximately
> right (say a half-wave dipole or quarter-wave vertical - anything
> resonant with about 50 ohms impedance) then the TS-520 and friends will
> probably match it anyway. That pi network you need to tune up with the
> PLATE and LOAD controls is really just an ATU.
>
> Gordon 2M0YEQ
>

22129. Re: [TS-520_820_530_830] Re: vfo 520s against vfo 820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-19 17:05:51 UTC
From: ken bolin
Topic: 22108 Message: 22129

Sorry lol brain gas moment for some reason yes 0 to 500 for the vfo 820
 and 0 to 600 on the vfo 520s. Not a compatibility issue but it was more of a request on the advantages of one over the other.
Ken
--- On Wed, 8/19/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: vfo 520s against vfo 820
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, August 19, 2009, 9:21 AM

Ken,

All VFO sub and main dials start at zero, not 100. If the sub dial on
your 520 transceiver OR remote VFO-520 will not tune down to zero,
that is a mechanical dial alignment issue not a compatibility issue.

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, ken bolin <bornofthehorses@...> wrote:
>
> I thing I do see is the 520s has a 100 to 600 coverage and the 820 does not, it goes from 100 to 500 but you get it broke down better with the insert breaking down that stream into 10ths on the crank. As for the tuners I have been on ebay trying AND KEEP LOSING to get a few Drakes and a Johnson that showed up. I did secure a MFJ-949c any good or did I waste some money?
>
> --- On Tue, 8/18/09, w5rkl <w5rkl@...> wrote:
>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: vfo 520s against vfo 820
> To: TS-520_820_530_830@yahoogroups.com
> Date: Tuesday, August 18, 2009, 12:29 PM
>
>
> Ken,
>
> Other than cosmetic and physical case difference, both VFO-520
> and VFO-820 are the same. As you have found out, the VFO-820 will
> plug into and work just fine with a TS-520 and vice verse with
> the VFO-520.
>
> Having said that, the VFO-520 and the VFO-820 will NOT plug into
> nor will they work with the TS-530 and TS-830 series transceivers.

> In addition, the VFO-230 and the VFO-240 will not plug into nor
> will they work with the TS-520 and TS-820 transceivers.
>
> There are a variety of tuners available on the market today.
> Manual, automatic, desktop or remote mounting, as well as
> unbalanced or balanced output. It all depends on your situation
> and desires/needs. Don't discount older tuners from Johnson,
> Drake, and others. They produce the same results as tuner sold
> today.
>
> 73
> Mike W5RKL
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "bornofthehorses" <bornofthehorses@> wrote:
> >
> > Ok I have both the vfo 520s and the vfo 820 using the 520s cable for both on a TS 520s. Which is better and why, because to save me I can not tell any differents in the receive mode anyway (getting ready to test out in 3 weeks). So QST is a no no for now, just want any and alls input on the 2. The 1 that wins will live in the station the other will be available to a good home. Also whats the water like in the way of transmatch/antenna turners? All help welcome.
> > Ken
> > call_______ soon to be I hope
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> Yahoo! Groups Links
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22130. RE: [TS-520_820_530_830] vfo 520s against vfo 820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-19 17:34:09 UTC
From: Dick Merryman
Topic: 22108 Message: 22130

Ken-

I have a Yaesu FT-1000MP and a Kenwood TS-520S. Although the Yaesu is clearly a better radio, I like the Kenwood best for lots of reasons, not the least of which is that I feel like I'm operating a real radio not some appliance that will speak to me.

Anyway, I'm a purist and would never tie a VFO 820 to my TS-520S. I have a VFO 520S which is what Kenwood intended and I would recommend the same to you.

As for the tuner, there is only one choice, an AT-200. It's a good tuner and matches the 520S. I wish I had one - anybody out there looking to sell?

To complete my Kenwood station I also have a SP-520 speaker, a DG-5 Digital Display and a MC-50 microphone. What a nice little station!!!

Good luck to you with your license,

-Dick-

N3XRU

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of bornofthehorses
Sent: Tuesday, August 18, 2009 8:16 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] vfo 520s against vfo 820

Ok I have both the vfo 520s and the vfo 820 using the 520s cable for both on a TS 520s. Which is better and why, because to save me I can not tell any differents in the receive mode anyway (getting ready to test out in 3 weeks). So QST is a no no for now, just want any and alls input on the 2. The 1 that wins will live in the station the other will be available to a good home. Also whats the water like in the way of transmatch/antenna turners? All help welcome.
Ken
call_____ soon to be I hope

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22131. Re: vfo 520s against vfo 820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-19 19:20:46 UTC
From: w5rkl
Topic: 22108 Message: 22131

Ken,

INRAD sells a 400Hz CW filter for the 520 for $115 plus shipping.
The filter is slightly larger than the original Kenwood filter.
I have installed this filter in a TS-520SE, same filter for the
520S. It does a great job. Installation requires cutting short
lengths of RG-174 (provided with the filter) and soldering to
the filter terminals and the 520's IF UNIT board. The filter
is mounted to the IF UNIT board using double stick tape also
provided with the filter.

See INRAD's website for further details.

http://www.qth.com/inrad/

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, ken bolin <bornofthehorses@...> wrote:
>
> Ok thanks sounds like a plan I have no need to go past 300 watts any time soon anyway if and when that comes I WILL JUST BID HARDER for a Johnson or Drake next time one shows up. As for getting the dummy beefed up on the 949c I just found a design in an old ARRL Handbook for a 1000w Cantenna that should do the trick. Now if I can just find a cw filter YG-3395c for the TS-520s or and out board box to do the trick I would be set for the most part.
>
> Ken
>
> --- On Wed, 8/19/09, w5rkl <w5rkl@...> wrote:
>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: vfo 520s against vfo 820
> To: TS-520_820_530_830@yahoogroups.com
> Date: Wednesday, August 19, 2009, 9:59 AM
>
>
> Hello Ken and others,
>
> The Drake low power tuner is an MN-4 not an MN-200. The MN-4 has
> a maximum power rating of 200 watts. The MN-2000 has a maximum
> power rating of 2KW. I have both of the Drake tuners in my shack.
>
> The MFJ-949C tuner has a maximum power rating of 300 watts
> which is well within the PEP output of a TS-520.

>
> The Drake MN-4, MN-2000, or MFJ-939C, will work fine with a TS-520.
> I do not recommend using a tuner with a maximum power rating that
> is less than 200 watts with any 100 watt exciter. Always consider a
> safety margin when selecting tuners.
>
> As for replacing any of the capacitors in the MFJ-949C tuner,
> unless there is evidence of damage to any of the capacitors, I do
> NOT recommend changing any of them. If there "is" damage to one
> or more capacitors, contact MFJ for replacement parts. Installing
> a replacement capacitors with the wrong rating can result in
> damage to the new capacitor as well as possibly other components.
>
>
> 73
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, ken bolin <bornofthehorses@> wrote:
> >
> > Thanks I found a mfj 949c gives me coax and line feed which I want to set up both I am worried about the voltage rating on the caps. Can it be done and is it wise to change out the caps to higher ratings? I have skits for all 3 of the 949s c b and e. Or did I just waste some money?
> >
> > --- On Tue, 8/18/09, Greg Anders <greg.anders@> wrote:
> >
> >
> > From: Greg Anders <greg.anders@>
> > Subject: RE: [TS-520_820_530_830] Re: vfo 520s against vfo 820
> > To: "TS-520_820_530_830@yahoogroups.com" <TS-520_820_530_830@yahoogroups.com>
> > Date: Tuesday, August 18, 2009, 1:02 PM
> >
> >
> > I have owned many tuners over the years. Drake MN-200/2000's are excellent, so are Dentron's. Even the Heathkit SA2040 and 2060 will match just about anything on 80-10M.
> > IF you desire to keep the "Kenwood" look, the AT230 is a good tuner too.
> >
> > Greg
> > KG6YV
> > From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
> > Sent: Tuesday, August 18, 2009 12:30 PM
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: [TS-520_820_530_830] Re: vfo 520s against vfo 820
> >
> >
> >
> > Ken,
> >

> > Other than cosmetic and physical case difference, both VFO-520
> > and VFO-820 are the same. As you have found out, the VFO-820 will
> > plug into and work just fine with a TS-520 and vice verse with
> > the VFO-520.
> >
> > Having said that, the VFO-520 and the VFO-820 will NOT plug into
> > nor will they work with the TS-530 and TS-830 series transceivers.
> > In addition, the VFO-230 and the VFO-240 will not plug into nor
> > will they work with the TS-520 and TS-820 transceivers.
> >
> > There are a variety of tuners available on the market today.
> > Manual, automatic, desktop or remote mounting, as well as
> > unbalanced or balanced output. It all depends on your situation
> > and desires/needs. Don't discount older tuners from Johnson,
> > Drake, and others. They produce the same results as tuner sold
> > today.
> >
> > 73
> > Mike W5RKL
> >
> > --- In
TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>,
"bornofthehorses" <bornofthehorses@> wrote:
> > >
> > > Ok I have both the vfo 520s and the vfo 820 using the 520s cable for both on a TS
520s. Which is better and why, because to save me I can not tell any differents in the
receive mode anyway (getting ready to test out in 3 weeks). So QST is a no no for now, just
want any and alls input on the 2. The 1 that wins will live in the station the other will
be available to a good home. Also whats the water like in the way of transmatch/antenna
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> > > Ken
> > > call_______ soon to be I hope
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22132. Re: vfo 520s against vfo 820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-19 19:24:06 UTC
From: w5rkl
Topic: 22108 Message: 22132

No problem. There are no advantages of one over the other except
for appearance.

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, ken bolin <bornofthehorses@...> wrote:
>
> Sorry lol brain gas moment for some reason yes 0 to 500 for the vfo 820
> and 0 to 600 on the vfo 520s. Not a compatibility issue but it was more of a request on
the advantages of one over the other.
> Ken
> --- On Wed, 8/19/09, w5rkl <w5rkl@...> wrote:
>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: vfo 520s against vfo 820
> To: TS-520_820_530_830@yahoogroups.com
> Date: Wednesday, August 19, 2009, 9:21 AM
>
>
>
> Ken,
>
> All VFO sub and main dials start at zero, not 100. If the sub dial on
> your 520 transceiver OR remote VFO-520 will not tune down to zero,
> that is a mechanical dial alignment issue not a compatibility issue.
>
> 73
> Mike W5RKL
>
>
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>
> --- In TS-520_820_530_830@yahoogroups.com, ken bolin <bornofthehorses@> wrote:
> >
> > I thing I do see is the 520s has a 100 to 600 coverage and the 820 does not, it goes
from 100 to 500 but you get it broke down better with the insert breaking down that stream
into 10ths on the crank. As for the tuners I have been on ebay trying AND KEEP LOSING to
get a few Drakes and a Johnson that showed up. I did secure a MFJ-949c any good or did I

waste some money?
> >
> > --- On Tue, 8/18/09, w5rkl <w5rkl@> wrote:
> >
> >
> > From: w5rkl <w5rkl@>
> > Subject: [TS-520_820_530_830] Re: vfo 520s against vfo 820
> > To: TS-520_820_530_830@yahoogroups.com
> > Date: Tuesday, August 18, 2009, 12:29 PM
> >
> >
> > Ken,
> >
> > Other than cosmetic and physical case difference, both VFO-520
> > and VFO-820 are the same. As you have found out, the VFO-820 will
> > plug into and work just fine with a TS-520 and vice verse with
> > the VFO-520.
> >
> > Having said that, the VFO-520 and the VFO-820 will NOT plug into
> > nor will they work with the TS-530 and TS-830 series transceivers.
> > In addition, the VFO-230 and the VFO-240 will not plug into nor
> > will they work with the TS-520 and TS-820 transceivers.
> >
> > There are a variety of tuners available on the market today.
> > Manual, automatic, desktop or remote mounting, as well as
> > unbalanced or balanced output. It all depends on your situation
> > and desires/needs. Don't discount older tuners from Johnson,
> > Drake, and others. They produce the same results as tuner sold
> > today.
> >
> > 73
> > Mike W5RKL
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "bornofthehorses" <bornofthehorses@> wrote:
> > >
> > > Ok I have both the vfo 520s and the vfo 820 using the 520s cable for both on a TS 520s. Which is better and why, because to save me I can not tell any differents in the receive mode anyway (getting ready to test out in 3 weeks). So QST is a no no for now, just want any and alls input on the 2. The 1 that wins will live in the station the other will be available to a good home. Also whats the water like in the way of transmatch/antenna turners? All help welcome.
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22133. Re: vfo 520s against vfo 820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-19 19:33:47 UTC
From: w5rkl
Topic: 22108 Message: 22133

One additional comment Ken.

A CW filter from a TS-820/820s will not work in either of the 520
series transceivers. The reason is the IF frequency of the 820
series is different than the IF frequency in the 520 series.
The IF frequency in the 520 series is 3.395Mhz where the IF
frequency in the 820 series is 8.83Mhz.

Just in case you might be thinking of using an 820 filter you
may have laying around the shack's junk box.

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Ken,
>
> INRAD sells a 400Hz CW filter for the 520 for $115 plus shipping.
> The filter is slightly larger than the original Kenwood filter.
> I have installed this filter in a TS-520SE, same filter for the
> 520S. It does a great job. Installation requires cutting short
> lengths of RG-174 (provided with the filter) and soldering to
> the filter terminals and the 520's IF UNIT board. The filter
> is mounted to the IF UNIT board using double stick tape also
> provided with the filter.
>
> See INRAD's website for further details.
>
> http://www.qth.com/inrad/
>
> 73
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, ken bolin <bornofthehorses@> wrote:
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> > Ok thanks sounds like a plan I have no need to go past 300 watts any time soon anyway if and when that comes I WILL JUST BID HARDER for a Johnson or Drake next time one shows up. As for getting the dummy beefed up on the 949c I just found a design in an old ARRL Handbook for a 1000w Cantenna that should do the trick. Now if I can just find a cw filter YG-3395c for the TS-520s or and out board box to do the trick I would be set for the most part.
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> > Ken
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> > --- On Wed, 8/19/09, w5rkl <w5rkl@> wrote:
> >
> >
> > From: w5rkl <w5rkl@>
> > Subject: [TS-520_820_530_830] Re: vfo 520s against vfo 820
> > To: TS-520_820_530_830@yahoogroups.com
> > Date: Wednesday, August 19, 2009, 9:59 AM
> >
> >
> > Hello Ken and others,
> >
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> > a maximum power rating of 200 watts. The MN-2000 has a maximum
> > power rating of 2KW. I have both of the Drake tuners in my shack.
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> > which is well within the PEP output of a TS-520.
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> > I do not recommend using a tuner with a maximum power rating that
> > is less than 200 watts with any 100 watt exciter. Always consider a
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> > unless there is evidence of damage to any of the capacitors, I do
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> > or more capacitors, contact MFJ for replacement parts. Installing
> > a replacement capacitors with the wrong rating can result in
> > damage to the new capacitor as well as possibly other components.
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> > 73
> > Mike W5RKL
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, ken bolin <bornofthehorses@> wrote:
> > >
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> > > --- On Tue, 8/18/09, Greg Anders <greg.anders@> wrote:
> > >
> > >
> > > From: Greg Anders <greg.anders@>
> > > Subject: RE: [TS-520_820_530_830] Re: vfo 520s against vfo 820
> > > To: "TS-520_820_530_830@yahoogroups.com" <TS-520_820_530_830@yahoogroups.com>
> > > Date: Tuesday, August 18, 2009, 1:02 PM
> > >

> > >
> > > I have owned many tuners over the years. Drake MN-200/2000's are excellent, so are Dentron's. Even the Heathkit SA2040 and 2060 will match just about anything on 80-10M.
> > > IF you desire to keep the "Kenwood" look, the AT230 is a good tuner too.
> > >
> > > Greg
> > > KG6YV
> > > From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
> > > Sent: Tuesday, August 18, 2009 12:30 PM
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Subject: [TS-520_820_530_830] Re: vfo 520s against vfo 820
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> > >
> > >
> > > Ken,
> > >
> > > Other than cosmetic and physical case difference, both VFO-520
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> > > the VFO-520.
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> > > Having said that, the VFO-520 and the VFO-820 will NOT plug into
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> > > In addition, the VFO-230 and the VFO-240 will not plug into nor
> > > will they work with the TS-520 and TS-820 transceivers.
> > >
> > > There are a variety of tuners available on the market today.
> > > Manual, automatic, desktop or remote mounting, as well as
> > > unbalanced or balanced output. It all depends on your situation
> > > and desires/needs. Don't discount older tuners from Johnson,
> > > Drake, and others. They produce the same results as tuner sold
> > > today.
> > >
> > > 73
> > > Mike W5RKL
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "bornofthehorses" <bornofthehorses@> wrote:
> > > >
> > > > Ok I have both the vfo 520s and the vfo 820 using the 520s cable for both on a TS 520s. Which is better and why, because to save me I can not tell any differents in the receive mode anyway (getting ready to test out in 3 weeks). So QST is a no no for now, just want any and alls input on the 2. The 1 that wins will live in the station the other will be available to a good home. Also whats the water like in the way of transmatch/antenna turners? All help welcome.
> > > > Ken
> > > > call_______ soon to be I hope
> > > >

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> > > [Non-text portions of this message have been removed]
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> > Yahoo! Groups Links
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22134. Re: [TS-520_820_530_830] Re: vfo 520s against vfo 820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-19 19:40:56 UTC
From: William S. White
Topic: 22108 Message: 22134

If you hurry over to R&L Electronics...
They have a YG-3395 listed on the used page for $69.00.
I don't think it will be there much longer. ;-))
http://www.rlham.com/cgi-bin/shop/used.dbw

Bill

----- Original Message -----
From: "ken bolin" <bornofthehorses@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, August 19, 2009 1:43 PM
Subject: Re: [TS-520_820_530_830] Re: vfo 520s against vfo 820

Ok thanks sounds like a plan I have no need to go past 300 watts any time soon anyway if and when that comes I WILL JUST BID HARDER for a Johnson or Drake next time one shows up. As for getting the dummy beefed up on the 949c I just found a design in an old ARRL Handbook for a 1000w Cantenna that should do the trick. Now if I can just find a cw filter YG-3395c for the TS-520s or and out board box to do the trick I would be set for the most part.

Ken

22135. RE: [TS-520_820_530_830] vfo 520s against vfo 820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-19 23:07:07 UTC
From: ken bolin
Topic: 22108 Message: 22135

Thanks that is the way i am leaning.
Ken

--- On Wed, 8/19/09, Dick Merryman <dicko@...> wrote:

From: Dick Merryman <dicko@...>
Subject: RE: [TS-520_820_530_830] vfo 520s against vfo 820
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, August 19, 2009, 10:34 AM

Ken-

I have a Yaesu FT-1000MP and a Kenwood TS-520S. Although the Yaesu is clearly a better radio, I like the Kenwood best for lots of reasons, not the least of which is that I feel like I'm operating a real radio not some appliance that will speak to me.

Anyway, I'm a purist and would never tie a VFO 820 to my TS-520S. I have a VFO 520S which is what Kenwood intended and I would recommend the same to you.

As for the tuner, there is only one choice, an AT-200. It's a good tuner and matches the 520S. I wish I had one - anybody out there looking to sell?

To complete my Kenwood station I also have a SP-520 speaker, a DG-5 Digital Display and a MC-50 microphone. What a nice little station!!!

Good luck to you with your license,

-Dick-

N3XRU

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of bornofthehorses
Sent: Tuesday, August 18, 2009 8:16 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] vfo 520s against vfo 820

Ok I have both the vfo 520s and the vfo 820 using the 520s cable for both on a TS 520s. Which is better and why, because to save me I can not tell any differents in the receive mode anyway (getting ready to test out in 3 weeks). So QST is a no no for now, just want any and alls input on the 2. The 1 that wins will live in the station the other will be available to a good home. Also whats the water like in the way of transmatch/antenna turners? All help welcome.

Ken
call_____ soon to be I hope

[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

22136. Re: [TS-520_820_530_830] Re: vfo 520s against vfo 820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-19 23:09:08 UTC
From: ken bolin
Topic: 22108 Message: 22136

Thanks I will check them out.
Ken

--- On Wed, 8/19/09, w5rkl <w5rkl@yahoo.com> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: vfo 520s against vfo 820
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, August 19, 2009, 12:20 PM

Ken,

INRAD sells a 400Hz CW filter for the 520 for $115 plus shipping.
The filter is slightly larger than the original Kenwood filter.
I have installed this filter in a TS-520SE, same filter for the
520S. It does a great job. Installation requires cutting short
lengths of RG-174 (provided with the filter) and soldering to
the filter terminals and the 520's IF UNIT board. The filter
is mounted to the IF UNIT board using double stick tape also
provided with the filter.

See INRAD's website for further details.

http://www.qth.com/inrad/

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, ken bolin <bornofthehorses@...> wrote:
>
> Ok thanks sounds like a plan I have no need to go past 300 watts any time soon anyway if and when that comes I WILL JUST BID HARDER for a Johnson or Drake next time one shows up. As for getting the dummy beefed up on the 949c I just found a design in an old ARRL Handbook for a 1000w Cantenna that should do the trick. Now if I can just find a cw filter YG-3395c for the TS-520s or and out board box to do the trick I would be set for the most part.
>
> Ken
>
> --- On Wed, 8/19/09, w5rkl <w5rkl@...> wrote:
>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: vfo 520s against vfo 820
> To: TS-520_820_530_830@yahoogroups.com
> Date: Wednesday, August 19, 2009, 9:59 AM
>

>
> Hello Ken and others,
>
> The Drake low power tuner is an MN-4 not an MN-200. The MN-4 has
> a maximum power rating of 200 watts. The MN-2000 has a maximum
> power rating of 2KW. I have both of the Drake tuners in my shack.
>
> The MFJ-949C tuner has a maximum power rating of 300 watts
> which is well within the PEP output of a TS-520.
>
> The Drake MN-4, MN-2000, or MFJ-939C, will work fine with a TS-520.
> I do not recommend using a tuner with a maximum power rating that
> is less than 200 watts with any 100 watt exciter. Always consider a
> safety margin when selecting tuners.
>
> As for replacing any of the capacitors in the MFJ-949C tuner,
> unless there is evidence of damage to any of the capacitors, I do
> NOT recommend changing any of them. If there "is" damage to one
> or more capacitors, contact MFJ for replacement parts. Installing
> a replacement capacitors with the wrong rating can result in
> damage to the new capacitor as well as possibly other components.
>
>
> 73
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, ken bolin <bornofthehorses@> wrote:
> >
> > Thanks I found a mfj 949c gives me coax and line feed which I want to set up both I am worried about the voltage rating on the caps. Can it be done and is it wise to change out the caps to higher ratings? I have skits for all 3 of the 949s c b and e. Or did I just waste some money?
> >
> > --- On Tue, 8/18/09, Greg Anders <greg.anders@> wrote:
> >
> >
> > From: Greg Anders <greg.anders@>
> > Subject: RE: [TS-520_820_530_830] Re: vfo 520s against vfo 820
> > To: "TS-520_820_530_830@yahoogroups.com" <TS-520_820_530_830@yahoogroups.com>
> > Date: Tuesday, August 18, 2009, 1:02 PM
> >
> >
> > I have owned many tuners over the years. Drake MN-200/2000's are excellent, so are Dentron's. Even the Heathkit SA2040 and 2060 will match just about anything on 80-10M.
> > IF you desire to keep the "Kenwood" look, the AT230 is a good tuner too.
> >
> > Greg
> > KG6YV
> > From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com]

On Behalf Of w5rkl
> > Sent: Tuesday, August 18, 2009 12:30 PM
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: [TS-520_820_530_830] Re: vfo 520s against vfo 820
> >
> >
> >
> > Ken,
> >
> > Other than cosmetic and physical case difference, both VFO-520
> > and VFO-820 are the same. As you have found out, the VFO-820 will
> > plug into and work just fine with a TS-520 and vice verse with
> > the VFO-520.
> >
> > Having said that, the VFO-520 and the VFO-820 will NOT plug into
> > nor will they work with the TS-530 and TS-830 series transceivers.
> > In addition, the VFO-230 and the VFO-240 will not plug into nor
> > will they work with the TS-520 and TS-820 transceivers.
> >
> > There are a variety of tuners available on the market today.
> > Manual, automatic, desktop or remote mounting, as well as
> > unbalanced or balanced output. It all depends on your situation
> > and desires/needs. Don't discount older tuners from Johnson,
> > Drake, and others. They produce the same results as tuner sold
> > today.
> >
> > 73
> > Mike W5RKL
> >
> > --- In
TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>,
"bornofthehorses" <bornofthehorses@> wrote:
> > >
> > > Ok I have both the vfo 520s and the vfo 820 using the 520s cable for both on a TS
520s. Which is better and why, because to save me I can not tell any differents in the
receive mode anyway (getting ready to test out in 3 weeks). So QST is a no no for now, just
want any and alls input on the 2. The 1 that wins will live in the station the other will
be available to a good home. Also whats the water like in the way of transmatch/antenna
turners? All help welcome.
> > > Ken
> > > call_______ soon to be I hope
> > >
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Yahoo! Groups Links

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22137. Re: [TS-520_820_530_830] Re: vfo 520s against vfo 820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-19 23:22:57 UTC
From: ken bolin
Topic: 22108 Message: 22137

Ok got it no the shack only has 1 extra part laying about thats the vfo 820.
Ken

--- On Wed, 8/19/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: vfo 520s against vfo 820
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, August 19, 2009, 12:33 PM

One additional comment Ken.

A CW filter from a TS-820/820s will not work in either of the 520
series transceivers. The reason is the IF frequency of the 820
series is different than the IF frequency in the 520 series.
The IF frequency in the 520 series is 3.395Mhz where the IF
frequency in the 820 series is 8.83Mhz.

Just in case you might be thinking of using an 820 filter you
may have laying around the shack's junk box.

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Ken,
>
> INRAD sells a 400Hz CW filter for the 520 for $115 plus shipping.
> The filter is slightly larger than the original Kenwood filter.
> I have installed this filter in a TS-520SE, same filter for the
> 520S. It does a great job. Installation requires cutting short
> lengths of RG-174 (provided with the filter) and soldering to
> the filter terminals and the 520's IF UNIT board. The filter
> is mounted to the IF UNIT board using double stick tape also
> provided with the filter.
>
> See INRAD's website for further details.
>
> http://www.qth.com/inrad/
>
> 73
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, ken bolin <bornofthehorses@> wrote:
> >

> > Ok thanks sounds like a plan I have no need to go past 300 watts any time soon anyway if and when that comes I WILL JUST BID HARDER for a Johnson or Drake next time one shows up. As for getting the dummy beefed up on the 949c I just found a design in an old ARRL Handbook for a 1000w Cantenna that should do the trick. Now if I can just find a cw filter YG-3395c for the TS-520s or and out board box to do the trick I would be set for the most part.
> >
> > Ken
> >
> > --- On Wed, 8/19/09, w5rkl <w5rkl@> wrote:
> >
> >
> > From: w5rkl <w5rkl@>
> > Subject: [TS-520_820_530_830] Re: vfo 520s against vfo 820
> > To: TS-520_820_530_830@yahoogroups.com
> > Date: Wednesday, August 19, 2009, 9:59 AM
> >
> >
> > Hello Ken and others,
> >
> > The Drake low power tuner is an MN-4 not an MN-200. The MN-4 has
> > a maximum power rating of 200 watts. The MN-2000 has a maximum
> > power rating of 2KW. I have both of the Drake tuners in my shack.
> >
> > The MFJ-949C tuner has a maximum power rating of 300 watts
> > which is well within the PEP output of a TS-520.
> >
> > The Drake MN-4, MN-2000, or MFJ-939C, will work fine with a TS-520.
> > I do not recommend using a tuner with a maximum power rating that
> > is less than 200 watts with any 100 watt exciter. Always consider a
> > safety margin when selecting tuners.
> >
> > As for replacing any of the capacitors in the MFJ-949C tuner,
> > unless there is evidence of damage to any of the capacitors, I do
> > NOT recommend changing any of them. If there "is" damage to one
> > or more capacitors, contact MFJ for replacement parts. Installing
> > a replacement capacitors with the wrong rating can result in
> > damage to the new capacitor as well as possibly other components.
> >
> >
> > 73
> > Mike W5RKL
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, ken bolin <bornofthehorses@> wrote:
> > >
> > > Thanks I found a mfj 949c gives me coax and line feed which I want to set up both I am worried about the voltage rating on the caps. Can it be done and is it wise to change out the caps to higher ratings? I have skits for all 3 of the 949s c b and e. Or did I just waste some money?

> > >
> > > --- On Tue, 8/18/09, Greg Anders <greg.anders@> wrote:
> > >
> > >
> > > From: Greg Anders <greg.anders@>
> > > Subject: RE: [TS-520_820_530_830] Re: vfo 520s against vfo 820
> > > To: "TS-520_820_530_830@yahoogroups.com" <TS-520_820_530_830@yahoogroups.com>
> > > Date: Tuesday, August 18, 2009, 1:02 PM
> > >
> > >
> > > I have owned many tuners over the years. Drake MN-200/2000's are excellent, so are Dentron's. Even the Heathkit SA2040 and 2060 will match just about anything on 80-10M.
> > > IF you desire to keep the "Kenwood" look, the AT230 is a good tuner too.
> > >
> > > Greg
> > > KG6YV
> > > From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
> > > Sent: Tuesday, August 18, 2009 12:30 PM
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Subject: [TS-520_820_530_830] Re: vfo 520s against vfo 820
> > >
> > >
> > >
> > > Ken,
> > >
> > > Other than cosmetic and physical case difference, both VFO-520
> > > and VFO-820 are the same. As you have found out, the VFO-820 will
> > > plug into and work just fine with a TS-520 and vice verse with
> > > the VFO-520.
> > >
> > > Having said that, the VFO-520 and the VFO-820 will NOT plug into
> > > nor will they work with the TS-530 and TS-830 series transceivers.
> > > In addition, the VFO-230 and the VFO-240 will not plug into nor
> > > will they work with the TS-520 and TS-820 transceivers.
> > >
> > > There are a variety of tuners available on the market today.
> > > Manual, automatic, desktop or remote mounting, as well as
> > > unbalanced or balanced output. It all depends on your situation
> > > and desires/needs. Don't discount older tuners from Johnson,
> > > Drake, and others. They produce the same results as tuner sold
> > > today.
> > >
> > > 73
> > > Mike W5RKL
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "bornofthehorses" <bornofthehorses@> wrote:
> > > >

> > > > Ok I have both the vfo 520s and the vfo 820 using the 520s cable for both on a TS 520s. Which is better and why, because to save me I can not tell any differents in the receive mode anyway (getting ready to test out in 3 weeks). So QST is a no no for now, just want any and alls input on the 2. The 1 that wins will live in the station the other will be available to a good home. Also whats the water like in the way of transmatch/antenna turners? All help welcome.
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Yahoo! Groups Links

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22138. Re: [TS-520_820_530_830] Re: vfo 520s against vfo 820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-19 23:27:51 UTC
From: ken bolin
Topic: 22108 Message: 22138

Ok thanks running that way.
Ken

--- On Wed, 8/19/09, William S. White <wwhite01@...> wrote:

From: William S. White <wwhite01@rochester.rr.com>
Subject: Re: [TS-520_820_530_830] Re: vfo 520s against vfo 820
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, August 19, 2009, 12:40 PM

If you hurry over to R&L Electronics...
They have a YG-3395 listed on the used page for $69.00.
I don't think it will be there much longer. ;-))
http://www.rlham.com/cgi-bin/shop/used.dbw

Bill

----- Original Message -----
From: "ken bolin" <bornofthehorses@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, August 19, 2009 1:43 PM
Subject: Re: [TS-520_820_530_830] Re: vfo 520s against vfo 820

Ok thanks sounds like a plan I have no need to go past 300 watts any time
soon anyway if and when that comes I WILL JUST BID HARDER for a Johnson or
Drake next time one shows up. As for getting the dummy beefed up on the 949c
I just found a design in an old ARRL Handbook for a 1000w Cantenna that
should do the trick. Now if I can just find a cw filter YG-3395c for the
TS-520s or and out board box to do the trick I would be set for the most
part.

Ken

Yahoo! Groups Links

[Non-text portions of this message have been removed]

22139. No TX Audio T599D

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-21 20:16:17 UTC
From: azatonsky
Topic: 22139 Message: 22139

Hi Gang... I recently aquired the "Twins" from sk. I use mostly on CW. Nice strong 125 watts out on 20m into my A3S yagi. And what a conversation piece! Anyway, mic is fine, also tried audio gen, nothing. AM carrier ok and cw fine, just no audio from mic jack. Relay switches to tx fine to. Initial inspection showed no loose or broken wires or burnt components where audio from front jack goes to board. I have schematic and have some test equip, but was hoping some one may have had similar condition and point me in right direction instead of me spending hours on it starting from scratch. I sent an email with attatched pic. Thanks for reading ... W1SNE, Al in Rhode Island.

22140. crystals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-21 20:54:10 UTC
From: don langston
Topic: 5654 Message: 22140

While cleaning out some part cabs I found these TS 520 crystals
1ea 35.895 2ea 35.395 1ea 36.395. these are OEM NOS
contact me direct w4jvy@...
Thanks
Don

22141. Re: No TX Audio T599D

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-22 01:28:45 UTC
From: azatonsky
Topic: 22139 Message: 22141

--- In TS-520_820_530_830@yahoogroups.com, "azatonsky" <w1sne@...> wrote:
>
> Hi Gang... I recently aquired the "Twins" from sk. I use mostly on CW. Nice strong 125 watts out on 20m into my A3S yagi. And what a conversation piece! Anyway, mic is fine, also tried audio gen, nothing. AM carrier ok and cw fine, just no audio from mic jack. Relay switches rx-tx fine too. Initial inspection showed no loose or broken wires or burnt components where audio from front jack goes to board. I have schematic and have some test equip, but was hoping some one may have had similar condition and point me in right direction instead of me spending hours on it starting from scratch. I sent an email with attatched pic. Thanks for reading ... W1SNE, Al in Rhode Island.
>
Oops... just realized no attatched pics allowed, so I created W1SNE Classic Radio album and uploaded a couple of pics. Take Care, Al in RI.

22142. Re: No TX Audio T599D

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-22 02:01:46 UTC
From: jim_ag3y
Topic: 22139 Message: 22142

--- In TS-520_820_530_830@yahoogroups.com, "azatonsky" <w1sne@...> wrote:
>
> Hi Gang... I recently aquired the "Twins" from sk. I use mostly on CW. Nice strong 125 watts out on 20m into my A3S yagi. And what a conversation piece! Anyway, mic is fine, also tried audio gen, nothing. AM carrier ok and cw fine, just no audio from mic jack. Relay switches to tx fine to. Initial inspection showed no loose or broken wires or burnt components where audio from front jack goes to board. I have schematic and have some test equip, but was hoping some one may have had similar condition and point me in right direction instead of me spending hours on it starting from scratch. I sent an email with attatched pic. Thanks for reading ... W1SNE, Al in Rhode Island.
>

Al, do you have either a signal tracer, or an oscilloscope ? I would simply start at the mic input, and work my way further into the transmitter. You should hear the signal getting louder and louder, until you come to a point where it suddenly stops. I would guess that you have a coupling capacitor that is either open, or has changed to some very small value. You could also have a dead transistor or tube, where there would be a signal at the input, but it would not be present at the output. It is not that difficult to trace the audio path from mic socket to modulator, and I betcha you will find where it quits rather easily.

Good luck, and keep us posted. I have the golddust twins, too, and the complete service manuals and schematics for both units. Let us know how far you get before the audio quits, and we can probably figure it out rather quickly.

73, and good luck ! Jim AG3Y

22143. Re: [TS-520_820_530_830] No TX Audio T599D

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-22 06:53:06 UTC
From: pmarkavage
Topic: 22139 Message: 22143

Before ripping into the circuitry, check this:
On the bottom of the cabinet, near the front and directly in line with the mike jack, is a recessed hole with a switch protruding from it. The switch sets the high or low impedance, depending on your mike. If the switch is set to the wrong position, in-between positions, or if the switch contacts are dirty, generally the mike won't work or will work poorly. Giggle the switch and try it in both positions if you're not sure of your mike impedance. Using headphones, you can monitor yourself with the R-599D receiver for the best audio quality and audio drive depending on the switch position and the type of mike you are using.

Pete, wa2cwa

On Fri, 21 Aug 2009 20:16:17 -0000 "azatonsky" <w1sne@...> writes:
> Hi Gang... I recently aquired the "Twins" from sk. I use mostly on
> CW. Nice strong 125 watts out on 20m into my A3S yagi. And what a
> conversation piece! Anyway, mic is fine, also tried audio gen,
> nothing. AM carrier ok and cw fine, just no audio from mic jack.
> Relay switches to tx fine to. Initial inspection showed no loose or
> broken wires or burnt components where audio from front jack goes to
> board. I have schematic and have some test equip, but was hoping
> some one may have had similar condition and point me in right
> direction instead of me spending hours on it starting from scratch.
> I sent an email with attatched pic. Thanks for reading ... W1SNE, Al
> in Rhode Island.

22144. AT-230

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-22 23:26:17 UTC
From: Dan Kohler
Topic: 6938 Message: 22144

I would like to know if anyone has had luck adding a light to the meter in the AT-230?? If so where on the meter did you mount it? Looking inside I see some openings near the bottom of the meter. Maybe a super bright LED? Tnx
Dan AB3FH

[Non-text portions of this message have been removed]

22145. Lookin for bits to compleate line up..

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-23 09:11:42 UTC
From: outbacktech
Topic: 22145 Message: 22145

Chaps,

Loooking around for a AT200/230 and a VFO520S and if at all possible a TV506, contact off list, best 73's Frank VK5KV

22146. Fixed my TS-520S vfo jump..

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-23 13:19:57 UTC
From: ke8bg
Topic: 22146 Message: 22146

Hi all,

I finally to my TS-520 apart to try and fix my RIT/VFO instability.
I had read somewhere about the relay contacts needing cleaned to fix
numerous problems.
It took me a while to find the relay.
I was surprised to find that the contacts were good (low ohm) but they
pins on the relay were really tarnished.
I see the same kind of tarnish oxidation on old TI TTL chips from the
late 70's and early 80's where the pins turn black and won't make a good
connection if they are in sockets..
After cleaned the pins of the relay.. The radio is back to normal.. No
frequency jump..

I still have to recap this radio but its at least operational..

Just thought I would pass this along..

Duane / KE8BG

22147. Help NO TX or RX on 15 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-23 19:42:35 UTC
From: Stephen Judd
Topic: 22147 Message: 22147

Hello All
I have a ts-520 with absolutly no tx or rx on 15 meters all other bands are great very nice receive and transmit just nothing on 15 the crystal is there and cleaned all wafer switches and relays any help will be great thanks 73
Stephen/KB7BGS

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

22148. 830 intermittent/fluctuating on 80, also microphone setting suggestion request

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-23 19:58:34 UTC
From: kg4kri
Topic: 22148 Message: 22148

Hello all,
I have noticed a problem with my 830- when transmitting on 80 meters, the plate current and rf output fluctuate wildly. This occurs in cw and ssb mode. This may be the alc bandswitch problem referred to in the 830 survival guide. Opinions, suggestions or cures are appreciated. The survival guide suggests using conductive paint to fix the problem- where can I find conductive paint?
On a different topic, I would like suggestions about the best mic gain and processor settings using the mc 50 mic with the 830.

Thanks and 73,
Daniel

22149. Re: Help: TS530-S -No Output on 18 and 24 Mhz-Otherwise all OK!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-23 20:39:56 UTC
From: j.athon
Topic: 22120 Message: 22149

Hi Lou,

Thanks for the reply. I now have full Power on all bands except for 18 and 24 Mhz which seems a bit of a coincidence. Any ideas on that one ?

73s

Steve

KD8EJZ/G4DFN

--- In TS-520_820_530_830@yahoogroups.com, Lou Blasco <radio@...> wrote:
>
> Hi Steve,
>
> I would start with the VFO. If the main shaft is badly bent I think
> I'd be looking to see if I can repair that first. A VFO that doesn't
> tune smoothly is a real pain on these sets. Does it receive ok on all
> bands? I think if you can get it to RX well on bands you have at
> least a fighting chance that most of the set is working. A dropped
> radio could have plenty of other problems and remain intermittent
> forever. Depending on the amount of physical damage you might want to
> consider using it as a parts radio.
>
> best of luck
>
> Lou
> VK3ALB
>
>
> At 12:20 PM 19/08/2009, you wrote:
> >Hello All,
> >
> >I recentley purchased a TS530-S, assured it was working perfectly !
> >The receiver performs fine on all Bands. However the plastic
> >insulator connecting the band swich in the PA section is broken, so
> >I assume that the rig has been set to transmit with a mis match
> >between the selected band and the Band swith position in the P.A. I
> >don't know if this could cause damage or not.
> >The HV is reading Ok at 800v. I have good ALC reading with
> >adjustment of the drive control in transmit, good Bias Current at
> >60mA, and 100mA of IP in the Tune/ Send mode. However, the Load and
> >Plate controls do not have any effect, and there is no power output
> >at all. I have tried matching the selected band with the coirrect
> >setting in the PA bandswitch, no effect. I can hear a carrier on an
> >adjacent receiver, but I assume this is just from the Driver section

> >signal only.
> >Additional info: It is obvious that the rig has been dropped. There
> >are severe impact marks on the outer case, the main tuning shaft is
> >badly bent, and the feet on the bottom are also impact damaged.
> >I have tried replacing the Driver tube to no effect. The PA tubes do
> >glow with plate current applied.I have no other PA tubed to try in
> >case they are bad. How can you test them?
> >
> >Any suggestions on where to start would be appreciated, as I would
> >love to get this fine old rig running again.Used to own a TS520 and an
> >830S.
> >
> >Thanksinadvance
> >
> >Steve
> >KD8EJZ / G4DFN
>

22150. TS-530S- No Tx on 18Mhz and 24 MHz ? Low Power until after 30m warm up ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-23 20:45:51 UTC
From: j.athon
Topic: 22150 Message: 22150

Hello All,

I have full Tx output on all bands except for 18 and 24Mhz? I have no drive at all on these...any suggestions?

Also , I cannot get more than 150mA IP and about 50 Watts out until after 30minutes of warm up...then I can get 250mA and full power (Except for 18 and 24 as stated above)? What could this be?

73s

Steve

KD8EJZ/ G4DFN

22151. manuals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-23 21:54:23 UTC
From: don langston
Topic: 22151 Message: 22151

These manuals are Trio- Kenwood original manuals,
Not copies.

DG-5
TR-7200A

Yaesu YC-601 (I know this is not a Kenwood.)

(2) TR-7200A
TR-7500
TR-2400
TR-7625
RZ1 receiver
TS-120S
TS-180S
TS-820
TS-820S

1 NEW TKC Crystal Filter YG-88S
Part number L71-0023-05

73
Don
contact me at
w4jvy@...

22152. Re: [TS-520_820_530_830] manuals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-23 22:13:34 UTC
From: n6wk@n6wk.com
Topic: 22151 Message: 22152

Are they User manuals or Service Manuals?

Thanks,
Gordon
N6WK

don langston wrote:
>
>
> These manuals are Trio- Kenwood original manuals,
> Not copies.
>
> DG-5
> TR-7200A
>
> Yaesu YC-601 (I know this is not a Kenwood.)
>
> (2) TR-7200A
> TR-7500
> TR-2400
> TR-7625
> RZ1 receiver
> TS-120S
> TS-180S
> TS-820
> TS-820S
>
> 1 NEW TKC Crystal Filter YG-88S
> Part number L71-0023-05
>
> 73
> Don
> contact me at
> w4jvy@... <mailto:w4jvy%40midfield.org>
>
>

22153. Re: AT-230

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-23 22:36:26 UTC
From: jmcgsd
Topic: 6938 Message: 22153

Dan I would be very careful with any kind of a mod if the AT-230 is in decent shape. These are becoming difficult to find in good condition and are bringing pretty good prices. Any mod could make it worth less as time goes on.

I'd use a flashlight :)

73.
Joe
AF6NI

--- In TS-520_820_530_830@yahoogroups.com, "Dan Kohler" <dnkohler@...> wrote:
>
> I would like to know if anyone has had luck adding a light to the meter in
> the AT-230?? If so where on the meter did you mount it? Looking inside I see
> some openings near the bottom of the meter. Maybe a super bright LED? Tnx
> Dan AB3FH
>
>
>
> [Non-text portions of this message have been removed]
>

22154. TS-830s No RF out in Tune mode

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-23 22:39:47 UTC
From: jmcgsd
Topic: 22154 Message: 22154

I just picked up an 830s that seems to work fine except for Tune mode. When I try to tune it, the driver works fine and I can peak it in the ALC position, but then when I switch to IP to dip the plate (or RF to peak it) I get nothing. In CW mode it works OK and power seems right.

Any ideas?

Thanks
Joe
AF6NI

22155. Re: [TS-520_820_530_830] TS-830s No RF out in Tune mode

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-23 22:45:39 UTC
From: n6wk@n6wk.com
Topic: 22154 Message: 22155

Joe,

Check the resistors R 15 and R 16 on the Rectifier Board
They should both be 56K
73,
Gordon

jmcgsd wrote:
>
>
> I just picked up an 830s that seems to work fine except for Tune mode.
> When I try to tune it, the driver works fine and I can peak it in the
> ALC position, but then when I switch to IP to dip the plate (or RF to
> peak it) I get nothing. In CW mode it works OK and power seems right.
>
> Any ideas?
>
> Thanks
> Joe
> AF6NI
>
>

22156. test

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-23 23:14:49 UTC
From: Stephen Judd
Topic: 5784 Message: 22156

someone please respond on my test thanks

Stephen/KB7BGS

[Non-text portions of this message have been removed]

22157. RE: [TS-520_820_530_830] test

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-23 23:38:13 UTC
From: Walter Milton
Topic: 5784 Message: 22157

How are you doing this evening??

Walt KA2NJF

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Stephen Judd
Sent: Sunday, August 23, 2009 7:15 PM
To: Kenwood goups
Subject: [TS-520_820_530_830] test

someone please respond on my test thanks

Stephen/KB7BGS

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

22158. Re: [TS-520_820_530_830] test

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-23 23:45:44 UTC
From: n6wk@n6wk.com
Topic: 5784 Message: 22158

Test Received !!

Gordon

Stephen Judd wrote:
>
>
> someone please respond on my test thanks
>
> Stephen/KB7BGS
>
> [Non-text portions of this message have been removed]
>
>

-

22159. Re: [TS-520_820_530_830] test

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-23 23:51:00 UTC
From: L Kendall
Topic: 5784 Message: 22159

Didn't get it here. :)

(Sorry--one in every crowd. I drew the straw this time--hihi.)

LDK

On Sun, 2009-08-23 at 16:14 -0700, Stephen Judd wrote:

> someone please respond on my test thanks
>
> Stephen/KB7BGS
>
>
>
>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

22160. RE: [TS-520_820_530_830] test

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-23 23:42:39 UTC
From: Dick Merryman
Topic: 5784 Message: 22160

You're 59 in Nevada.

-Dick-

N3XRU

_____

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Stephen Judd
Sent: Sunday, August 23, 2009 4:15 PM
To: Kenwood goups
Subject: [TS-520_820_530_830] test

someone please respond on my test thanks

Stephen/KB7BGS

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

22161. Re: TS-830s No RF out in Tune mode

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-23 23:57:20 UTC
From: jmcgsd
Topic: 22154 Message: 22161

Thx Gordon, will do.

--- In TS-520_820_530_830@yahoogroups.com, n6wk@... wrote:
>
> Joe,
>
> Check the resistors R 15 and R 16 on the Rectifier Board
> They should both be 56K
> 73,
> Gordon
>
>
>
> jmcgsd wrote:
> >
> >
> > I just picked up an 830s that seems to work fine except for Tune mode.
> > When I try to tune it, the driver works fine and I can peak it in the
> > ALC position, but then when I switch to IP to dip the plate (or RF to
> > peak it) I get nothing. In CW mode it works OK and power seems right.
> >
> > Any ideas?
> >
> > Thanks
> > Joe
> > AF6NI
> >
> >
>

22162. Re: [TS-520_820_530_830] TS-530S- No Tx on 18Mhz and 24 MHz ? Low Power until after 30m warm up ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-24 00:06:17 UTC
From: martin
Topic: 22150 Message: 22162

Hi Steve. Sounds like the W.A.R.C. mod has not been done. When the TS-530S came from the factory, U.S. Amateurs were not allowed to transmit on these bands yet. There is a mod in the manual to enable transmit on 18Mhz and 24Mhz.

Oddly enough, when I got my TS-530S (used) the W.A.R.C. mod had not been done either. I did the mod of course. The odd part is that I just reversed the mod, as I am selling the radio to a friend, and his MFJ-941 (No Bloody A, B, C, or D) will not work on 18Mhz. I think that the original 941 was made before the W.A.R.C. bands existed.

TTYL

j.athon wrote:
> Hello All,
>
> I have full Tx output on all bands except for 18 and 24Mhz? I have
> no drive at all on these...any suggestions?
>
> Also , I cannot get more than 150mA IP and about 50 Watts out until
> after 30minutes of warm up...then I can get 250mA and full power
> (Except for 18 and 24 as stated above)? What could this be?
>
> 73s
>
> Steve
>
> KD8EJZ/ G4DFN
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at http://www.defectivebydesign.org/what_is_drm"

22163. Re: [TS-520_820_530_830] Re: TS-830s No RF out in Tune mode

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-24 00:12:37 UTC
From: L Kendall
Topic: 22154 Message: 22163

Gordon,

I was wondering if it is important to keep these at 1/2 watt rating,
insofar as rig protection?

I just did the same repair on one of my TS-830S (G) rigs. Turns out R15
was intermittently "open." (I was out of the metal film 1/2 watt so I
used CC 1/2 watt.)

Works FB now.

Thanks,

LDK

On Sun, 2009-08-23 at 23:57 +0000, jmcgsd wrote:

> Thx Gordon, will do.
>
> --- In TS-520_820_530_830@yahoogroups.com, n6wk@... wrote:
> >
> > Joe,
> >
> > Check the resistors R 15 and R 16 on the Rectifier Board
> > They should both be 56K
> > 73,
> > Gordon
> >
> >
> >
> > jmcgsd wrote:
> > >
> > >
> > > I just picked up an 830s that seems to work fine except for Tune mode.
> > > When I try to tune it, the driver works fine and I can peak it in the
> > > ALC position, but then when I switch to IP to dip the plate (or RF to
> > > peak it) I get nothing. In CW mode it works OK and power seems right.
> > >
> > > Any ideas?
> > >
> > > Thanks
> > > Joe
> > > AF6NI
> > >
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

22164. Re: [TS-520_820_530_830] TS-530S- No Tx on 18Mhz and 24 MHz ? Low Power until after 30m warm up ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-24 00:12:35 UTC
From: n6wk@n6wk.com
Topic: 22150 Message: 22164

Yes and do NOT cut the diodes.
Cutting a single wire will enable all the WARC bands.

Gordon
N6WK

martin wrote:
>
>
> Hi Steve. Sounds like the W.A.R.C. mod has not been done. When the
> TS-530S came from the factory, U.S. Amateurs were not allowed to
> transmit on these bands yet. There is a mod in the manual to enable
> transmit on 18Mhz and 24Mhz.
>
> Oddly enough, when I got my TS-530S (used) the W.A.R.C. mod had not
> been done either. I did the mod of course. The odd part is that I
> just reversed the mod, as I am selling the radio to a friend, and his
> MFJ-941 (No Bloody A, B, C, or D) will not work on 18Mhz. I think
> that the original 941 was made before the W.A.R.C. bands existed.
>
> TTYL
>
> j.athon wrote:
> > Hello All,
> >
> > I have full Tx output on all bands except for 18 and 24Mhz? I have
> > no drive at all on these...any suggestions?
> >
> > Also , I cannot get more than 150mA IP and about 50 Watts out until
> > after 30minutes of warm up...then I can get 250mA and full power
> > (Except for 18 and 24 as stated above)? What could this be?
> >
> > 73s
> >
> > Steve
> >
> > KD8EJZ/ G4DFN
> >
> >
>
> --
> CUL8R
>
> KBOHAE kb0hae@... <mailto:kb0hae%40mchsi.com> Martin Campbell

>
> A Satisfied Sidux Linux user! To get Sidux go to:
> www.sidux.com/index.html
> "Protect your digital freedom and privacy, eliminate DRM, learn more
> at http://www.defectivebydesign.org/what_is_drm
> <http://www.defectivebydesign.org/what_is_drm>"
>
>

22165. Re: [TS-520_820_530_830] test

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-24 00:20:53 UTC
From: Gary Meyer
Topic: 5784 Message: 22165

Working good here

KC0NPJ Gary
----- Original Message -----
From: Stephen Judd
To: Kenwood goups
Sent: Sunday, August 23, 2009 6:14 PM
Subject: [TS-520_820_530_830] test

someone please respond on my test thanks

Stephen/KB7BGS

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

22166. Re: [TS-520_820_530_830] Re: TS-830s No RF out in Tune mode

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-24 00:39:44 UTC
From: n6wk@n6wk.com
Topic: 22154 Message: 22166

I always stay with the same rating that was originally in there.
In this application, you could use Carbon or Metal Film.

Gordon

L Kendall wrote:
>
>
> Gordon,
>
> I was wondering if it is important to keep these at 1/2 watt rating,
> insofar as rig protection?
>
> I just did the same repair on one of my TS-830S (G) rigs. Turns out R15
> was intermittently "open." (I was out of the metal film 1/2 watt so I
> used CC 1/2 watt.)
>
> Works FB now.
>
> Thanks,
>
> LDK
>
> On Sun, 2009-08-23 at 23:57 +0000, jmcgsd wrote:
>
> > Thx Gordon, will do.
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, n6wk@... wrote:
> > >
> > > Joe,
> > >
> > > Check the resistors R 15 and R 16 on the Rectifier Board
> > > They should both be 56K
> > > 73,
> > > Gordon
> > >
> > >
> > >
> > > jmcgsd wrote:
> > > >
> > > >
> > > > I just picked up an 830s that seems to work fine except for Tune
> mode.
> > > > When I try to tune it, the driver works fine and I can peak it

> in the
> > > > ALC position, but then when I switch to IP to dip the plate (or
> RF to
> > > > > peak it) I get nothing. In CW mode it works OK and power seems
> right.
> > > > >
> > > > > Any ideas?
> > > > >
> > > > > Thanks
> > > > > Joe
> > > > > AF6NI
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22167. TS-830 RF Attenuator

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-24 01:03:59 UTC
From: waterfield55
Topic: 22167 Message: 22167

Has anyone tried to make the RF attenuator variable?
I have found that at times it helps to cut down the back ground noise enough I can pull an otherwise unheard station out of the muck. At times it is enough at other times it is too much. From what I can see, looks like there is a 470 ohm resistor in line when the switch is OFF and a 56 ohm when it is on. Have to crack the case and see for sure.
Any reason why I couldn't put a pot inline with the switch so I could vary the amount of attenuation?

Bob

22168. Re: [TS-520_820_530_830] TS-830 RF Attenuator

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-24 01:13:36 UTC
From: Dave ve3wej
Topic: 22167 Message: 22168

why not use it in conjucntion with the rf gain control as well

----- Original Message -----
From: "waterfield55" <waterfield55@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, August 23, 2009 9:03 PM
Subject: [TS-520_820_530_830] TS-830 RF Attenuator

> Has anyone tried to make the RF attenuator variable?
> I have found that at times it helps to cut down the back ground noise
> enough I can pull an otherwise unheard station out of the muck. At times
> it is enough at other times it is too much. From what I can see, looks
> like there is a 470 ohm resistor in line when the switch is OFF and a 56
> ohm when it is on. Have to crack the case and see for sure.
> Any reason why I couldn't put a pot inline with the switch so I could vary
> the amount of attenuation?
>
> Bob
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

22169. Re: TS-830 RF Attenuator

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-24 01:52:20 UTC
From: w5rkl
Topic: 22167 Message: 22169

Heathkit did that in their SB-303 all solid state receiver. I have an SB-303 in excellent conditions but never use the RF ATTN control. Instead, I use the RF Gain control to reduce gain, provides a much more linear gain control to the RF and IF amplifiers, not to mention the accuracy of the S meter is retained.

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "waterfield55" <waterfield55@...> wrote:
>
> Has anyone tried to make the RF attenuator variable?
> I have found that at times it helps to cut down the back ground noise enough I can pull an otherwise unheard station out of the muck. At times it is enough at other times it is too much. From what I can see, looks like there is a 470 ohm resistor in line when the switch is OFF and a 56 ohm when it is on. Have to crack the case and see for sure.
> Any reason why I couldn't put a pot inline with the switch so I could vary the amount of attenuation?
>
> Bob
>

22170. Fw: Help NO TX or RX on 15 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-24 01:57:54 UTC
From: Stephen Judd
Topic: 22170 Message: 22170

Stephen/KB7BGS

--- On Sun, 8/23/09, Stephen Judd <swanradios@...> wrote:

From: Stephen Judd <swanradios@...>
Subject: Help NO TX or RX on 15 meters
To: "Kenwood goups" <TS-520_820_530_830@yahoogroups.com>
Date: Sunday, August 23, 2009, 1:42 PM

Hello All
I have a ts-520 with absolutly no tx or rx on 15 meters all other bands are great very nice receive and transmit just nothing on 15 the crystal is there and cleaned all wafer switches and relays any help will be great thanks 73
Stephen/KB7BGS

_____
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_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

22171. Re: [TS-520_820_530_830] manuals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-24 02:19:10 UTC
From: don langston
Topic: 22151 Message: 22171

Service. except for the Yc601

n6wk@... wrote:
>
>
> Are they User manuals or Service Manuals?
>
> Thanks,
> Gordon
> N6WK
>
> don langston wrote:
> >
> >
> > These manuals are Trio- Kenwood original manuals,
> > Not copies.
> >
> > DG-5
> > TR-7200A
> >
> > Yaesu YC-601 (I know this is not a Kenwood.)
> >
> > (2) TR-7200A
> > TR-7500
> > TR-2400
> > TR-7625
> > RZ1 receiver
> > TS-120S
> > TS-180S
> > TS-820
> > TS-820S
> >
> > 1 NEW TKC Crystal Filter YG-88S
> > Part number L71-0023-05
> >
> > 73
> > Don
> > contact me at
> > w4jvy@... <mailto:w4jvy%40midfield.org>
> <mailto:w4jvy%40midfield.org>
> >
> >
>
>

22172. Re: test

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-24 02:59:38 UTC
From: sootydave
Topic: 5784 Message: 22172

Sounds good here in NC. 599 with qrm and qsb. what was that freq again?? hi hi
73's
dave kg4uxr

--- In TS-520_820_530_830@yahoogroups.com, "Gary Meyer" <meyer@...> wrote:
>
> Working good here
>
> KC0NPJ Gary
> ----- Original Message -----
> From: Stephen Judd
> To: Kenwood goups
> Sent: Sunday, August 23, 2009 6:14 PM
> Subject: [TS-520_820_530_830] test
>
>
> someone please respond on my test thanks
>
> Stephen/KB7BGS
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

22173. Re: [TS-520_820_530_830] TS-530S- No Tx on 18Mhz and 24 MHz ? Low Power until after 30m warm up ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-24 06:25:51 UTC
From: Gordon JC Pearce
Topic: 22150 Message: 22173

On Sun, 2009-08-23 at 19:06 -0500, martin wrote:

> Oddly enough, when I got my TS-530S (used) the W.A.R.C. mod had not
> been done either. I did the mod of course. The odd part is that I
> just reversed the mod, as I am selling the radio to a friend, and his
> MFJ-941 (No Bloody A, B, C, or D) will not work on 18Mhz. I think
> that the original 941 was made before the W.A.R.C. bands existed.

I'm curious as to how an ATU can "not work on 18MHz". It's just a
T-match - if it can match an aerial at 14MHz and 21MHz then it should be
able to match it at 18MHz. Unless of course there's a *huge* jump in
the coil that prevents it getting in between the two bands, but that
would mean that there were certain aerials it couldn't match on other
bands.

What happens when you try loading up the aerial on 18MHz?

Gordon 2M0YEQ

22174. Re: [TS-520_820_530_830] TS-530S- No Tx on 18Mhz and 24 MHz ? Low Power until after 30m warm up ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-24 13:13:03 UTC
From: martin
Topic: 22150 Message: 22174

Hi Gordon. I am not sure why it doesn't work at 18Mhz. I do notice
that there is a coil wound on a toroid that is connected between the
large tapped coil and ground. This coil is not found on later 941C
and 941D units. When the tuner in question is used on 18Mhz, this
coil gets warm at low power levels.

I think that the toroidal coil is easily saturated on 18Mhz. The coil
is original to the tuner. I cannot get a low SWR reading on 18 Mhz
even when the tuner is connected (via the Ant1 or Ant2 connectors)to a
dummy load. The tuner works fine on all other bands including 24.9Mhz.
I Have tried the tuner on a Hustler 5BTV, and an 80M dipole.

At this point it doesn't matter to my friend that the tuner will not
work on 18Mhz. He is a tech, working on upgrading to General.

TTYL

Gordon JC Pearce wrote:
> On Sun, 2009-08-23 at 19:06 -0500, martin wrote:

> I'm curious as to how an ATU can "not work on 18MHz". It's just a
> T-match - if it can match an aerial at 14MHz and 21MHz then it should be
> able to match it at 18MHz. Unless of course there's a *huge* jump in
> the coil that prevents it getting in between the two bands, but that
> would mean that there were certain aerials it couldn't match on other
> bands.
>
> What happens when you try loading up the aerial on 18MHz?
>
> Gordon 2M0YEQ
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

22175. Re: AT-230

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-24 15:33:26 UTC
From: danielkohler61
Topic: 6938 Message: 22175

Hi Joe - Well the units not mint but close to it. I bought it recnetly on e-bay and apid abt $200. Its a nice little piece of gear. I like to operate my gear in low romm light so this causes quite a problem. All my other units havwe adequate lighting. Maybe I can wear a headlamp! Tnx for ur input Dan--- In TS-520_820_530_830@yahoogroups.com, "jmcgsd" <astro_crazy@...> wrote:
>
> Dan I would be very careful with any kind of a mod if the AT-230 is in decent shape. These are becoming difficult to find in good condition and are bringing pretty good prices. Any mod could make it worth less as time goes on.
>
> I'd use a flashlight :)
>
> 73.
> Joe
> AF6NI
>
> --- In TS-520_820_530_830@yahoogroups.com, "Dan Kohler" <dnkohler@> wrote:
> >
> > I would like to know if anyone has had luck adding a light to the meter in
> > the AT-230?? If so where on the meter did you mount it? Looking inside I see
> > some openings near the bottom of the meter. Maybe a super bright LED? Tnx
> > Dan AB3FH
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

22176. Re: [TS-520_820_530_830] Help NO TX or RX on 15 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-24 16:31:03 UTC
From: Daniel TOESCA
Topic: 22147 Message: 22176

Stephen, Maybe the Xtal is dead - it happens often with Kenwood - Trio vintage gear. To be sure, find a place to check if there is RF output from the Xtak oscillator and change bands. If nothing on 15, you're in some trouble. If you have a scope, even a low frequency one, it's ok, you don't want to measure, just to check. Without a scope, build a simple RF sensor on the PC board with a germanium diode, a 2-10 pF coupling cap, a 10 k resistor and a 10 nF decoupling cap, plus your VOM, doesn't have to be digital, that's OK. Refer to the user's or service manual to find a suitable check point. Good luck & 73's - Daniel, ON5PY

2009/8/23, Stephen Judd <swanradios@...>:
>
>
>
> Hello All
> I have a ts-520 with absolutly no tx or rx on 15 meters all other bands are
> great very nice receive and transmit just nothing on 15 the crystal is there
> and cleaned all wafer switches and relays any help will be great thanks 73
> Stephen/KB7BGS
>
> ---
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
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>
> [Non-text portions of this message have been removed]
>
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>

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22177. RE: [TS-520_820_530_830] Help NO TX or RX on 15 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-24 16:35:35 UTC
From: Greg Anders
Topic: 22147 Message: 22177

It is also possible that the heterodyne oscillator coil for the 15M band is out of alignement. If someone tweeked it past the "peak" point enough it would just stop oscillating and appear to be a dead crystal....

Greg

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Daniel TOESCA
Sent: Monday, August 24, 2009 9:31 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Help NO TX or RX on 15 meters

Stephen, Maybe the Xtal is dead - it happens often with Kenwood - Trio vintage gear. To be sure, find a place to check if there is RF output from the Xtak oscillator and change bands. If nothing on 15, you're in some trouble. If you have a scope, even a low frequency one, it's ok, you don't want to measure, just to check. Without a scope, build a simple RF sensor on the PC board with a germanium diode, a 2-10 pF coupling cap, a 10 k resistor and a 10 nF decoupling cap, plus your VOM, doesn't have to be digital, that's OK. Refer to the user's or service manual to find a suitable check point. Good luck & 73's - Daniel, ON5PY

2009/8/23, Stephen Judd <swanradios@...<mailto:swanradios%40yahoo.com>>:
>
>
>
> Hello All
> I have a ts-520 with absolutly no tx or rx on 15 meters all other bands are
> great very nice receive and transmit just nothing on 15 the crystal is there
> and cleaned all wafer switches and relays any help will be great thanks 73
> Stephen/KB7BGS
>
> ____
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[Non-text portions of this message have been removed]

22178. TS 830 Rectifier Problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-24 17:55:18 UTC
From: campbellgc@bellsouth.net
Topic: 22178 Message: 22178

To Kenwood TS 830 Techs...I have personally maintained my TS 830 since I purchased the transceiver in 1980..Over 300 countries worked..I now have an "unsolveable" Rectifier problem....R 11 470 ohm resister gets taken out when I try to Tune the Drive section coils in the RF section..When I throw the SG switch to off that is on the rear of the rig the Digital Display on the front of the rig goes dark, I think this indicates some sort of short???? I can not find it. I replaced the 470 ohm R-11 twice along with the relay RL-1 in the rectifier section Before I throw the SG switch I get 65 ma of Bias. After the R-11 goes south, no Bias....HELP...George Campbell W1GCC Stuart,FL

22179. Re: [TS-520_820_530_830] Help NO TX or RX on 15 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-24 18:38:00 UTC
From: John Davidson
Topic: 22147 Message: 22179

If you have a reciever or another rig that can receive on the Xtal freq, make a short coax line with a few inches of center conductor sticking out, as a probe.
with the proper connector on the other end , connect to the test reciever..
Now ...hold the probe end near the crystals with the power on and see if you cn hear the signal, try changing bnds and see if the correct frequencies show up in your 2nd receiver..

--- On Sun, 8/23/09, Stephen Judd <swanradios@...> wrote:

From: Stephen Judd <swanradios@yahoo.com>
Subject: [TS-520_820_530_830] Help NO TX or RX on 15 meters
To: "Kenwood goups" <TS-520_820_530_830@yahoogroups.com>
Date: Sunday, August 23, 2009, 3:42 PM

Hello All
I have a ts-520 with absolutly no tx or rx on 15 meters all other bands are great very nice receive and transmit just nothing on 15 the crystal is there and cleaned all wafer switches and relays any help will be great thanks 73
Stephen/KB7BGS

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[Non-text portions of this message have been removed]

22180. TS 830 Rectifier Problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-24 18:02:03 UTC
From: campbellgc@bellsouth.net
Topic: 22178 Message: 22180

To Kenwood TS 830 Techs...I have personally maintained my TS 830 since I purchased the transceiver in 1980..Over 300 countries worked..I now have an "unsolveable" Rectifier problem....R 11 470 ohm resister gets taken out when I try to Tune the Drive section coils in the RF section..When I throw the SG switch to off that is on the rear of the rig the Digital Display on the front of the rig goes dark, I think this indicates some sort of short???? I can not find it. I replaced the 470 ohm R-11 twice along with the relay RL-1 in the rectifier section Before I throw the SG switch I get 65 ma of Bias. After the R-11 goes south, no Bias....HELP...George Campbell W1GCC Stuart,FL

22181. RE: [TS-520_820_530_830] Help NO TX or RX on 15 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-24 19:36:23 UTC
From: Stephen Judd
Topic: 22147 Message: 22181

Thanks For all the help although not fixed I at first wondered If I was going to receive help but I have and must say I never had an elmer been liscensed since I was 13 years old and wow what happened to those days agian appriciate all that are helping
I did the alignment to the best of my knowledge my test lead on my VTVM is broke I do get about 15 watts of RF output on 15 meters If I place the drive above the normal 5 position closer to 10 I can get 25 watts but I notice that the meter slams to the right as soon as I return to rec position on the send switch this does not accure on other bands I did a HV reading and it is the same as all other bands which way do I look now and again thanks to all 73

Stephen/KB7BGS

--- On Mon, 8/24/09, Greg Anders <greg.anders@...> wrote:

From: Greg Anders <greg.anders@...>
Subject: RE: [TS-520_820_530_830] Help NO TX or RX on 15 meters
To: "TS-520_820_530_830@yahoogroups.com" <TS-520_820_530_830@yahoogroups.com>
Date: Monday, August 24, 2009, 10:35 AM

It is also possible that the heterodyne oscillator coil for the 15M band is out of alignement. If someone tweeked it past the "peak" point enough it would just stop oscillating and appear to be a dead crystal....

Greg

From: TS-520_820_530_ 830@yahoogroups. com [mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of Daniel TOESCA
Sent: Monday, August 24, 2009 9:31 AM
To: TS-520_820_530_ 830@yahoogroups. com
Subject: Re: [TS-520_820_ 530_830] Help NO TX or RX on 15 meters

Stephen, Maybe the Xtal is dead - it happens often with Kenwood - Trio vintage gear. To be sure, find a place to check if there is RF output from the Xtak oscillator and change bands. If nothing on 15, you're in some trouble. If you have a scope, even a low frequency one, it's ok, you don't want to measure, just to check. Without a scope, build a simple RF sensor on the PC board with a germanium diode, a 2-10 pF coupling cap, a 10 k resistor and a 10 nF decoupling cap, plus your VOM, doesn't have to be digital, that's OK. Refer to the user's or service manual to find a suitable check point. Good luck & 73's - Daniel, ON5PY

2009/8/23, Stephen Judd <swanradios@yahoo. com<mailto:swanradios% 40yahoo.com> >:
>
>
>
> Hello All
> I have a ts-520 with absolutly no tx or rx on 15 meters all other bands are

> great very nice receive and transmit just nothing on 15 the crystal is there
> and cleaned all wafer switches and relays any help will be great thanks 73
> Stephen/KB7BGS
>
> ___________ _________ _________ _________ _________ __
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>
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[Non-text portions of this message have been removed]

22182. Re: [TS-520_820_530_830] Re: AT-230

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-24 20:44:01 UTC
From: Gary Meyer
Topic: 6938 Message: 22182

Dan
The fly guys us a eyebrow light on some instruments. Goes on the outside. I have used them on old radios that need more light.
KC0NPJ Gary
----- Original Message -----
From: danielkohler61
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, August 24, 2009 10:33 AM
Subject: [TS-520_820_530_830] Re: AT-230

Hi Joe - Well the units not mint but close to it. I bought it recnetly on e-bay and apid abt $200. Its a nice little piece of gear. I like to operate my gear in low romm light so this causes quite a problem. All my other units havwe adequate lighting. Maybe I can wear a headlamp! Tnx for ur input Dan--- In TS-520_820_530_830@yahoogroups.com, "jmcgsd" <astro_crazy@...> wrote:
>
> Dan I would be very careful with any kind of a mod if the AT-230 is in decent shape. These are becoming difficult to find in good condition and are bringing pretty good prices. Any mod could make it worth less as time goes on.
>
> I'd use a flashlight :)
>
> 73.
> Joe
> AF6NI
>
> --- In TS-520_820_530_830@yahoogroups.com, "Dan Kohler" <dnkohler@> wrote:
> >
> > I would like to know if anyone has had luck adding a light to the meter in
> > the AT-230?? If so where on the meter did you mount it? Looking inside I see
> > some openings near the bottom of the meter. Maybe a super bright LED? Tnx
> > Dan AB3FH
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
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22183. Re: AT-230 (adding meter lamp)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-24 20:55:24 UTC
From: james27613
Topic: 6938 Message: 22183

Hi,

you can add a small lamp socket using either a few drops of
superglue or 5 min epoxy to attach it to the inside of the tuner,
very easy to remove it if you need to.

pass the power cable out the back panel in the lower corners
and you're good to go.

73 james ke4drn

> Dan I would be very careful with any kind of a mod if the AT-230 is in decent shape.
These are becoming difficult to find in good condition and are bringing pretty good prices.
Any mod could make it worth less as time goes on.
>

22184. Re: TS 830 Rectifier Problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-24 21:29:53 UTC
From: w5rkl
Topic: 22178 Message: 22184

Check D12 across RL1 on the Rectifier Unit, it may be bad.

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "campbellgc@..." <campbellgc@...> wrote:
>
> To Kenwood TS 830 Techs...I have personally maintained my TS 830 since I purchased the transceiver in 1980..Over 300 countries worked..I now have an "unsolveable" Rectifier problem....R 11 470 ohm resister gets taken out when I try to Tune the Drive section coils in the RF section..When I throw the SG switch to off that is on the rear of the rig the Digital Display on the front of the rig goes dark, I think this indicates some sort of short???? I can not find it. I replaced the 470 ohm R-11 twice along with the relay RL-1 in the rectifier section Before I throw the SG switch I get 65 ma of Bias. After the R-11 goes south, no Bias....HELP...George Campbell W1GCC Stuart,FL
>

22185. RE: [TS-520_820_530_830] Help NO TX or RX on 15 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-24 22:20:20 UTC
From: Stephen Judd
Topic: 22147 Message: 22185

I have just place a VTVM in line off of test point 3 to make the alignment per repair manual for the oscillator coil on 15 meters and everything works perfect tuned great as soon as I remove the meter output drops to 15 watts

Stephen/KB7BGS

--- On Mon, 8/24/09, Greg Anders <greg.anders@synopsys.com> wrote:

From: Greg Anders <greg.anders@...>
Subject: RE: [TS-520_820_530_830] Help NO TX or RX on 15 meters
To: "TS-520_820_530_830@yahoogroups.com" <TS-520_820_530_830@yahoogroups.com>
Date: Monday, August 24, 2009, 10:35 AM

It is also possible that the heterodyne oscillator coil for the 15M band is out of alignement. If someone tweeked it past the "peak" point enough it would just stop oscillating and appear to be a dead crystal....

Greg

From: TS-520_820_530_ 830@yahoogroups. com [mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of Daniel TOESCA
Sent: Monday, August 24, 2009 9:31 AM
To: TS-520_820_530_ 830@yahoogroups. com
Subject: Re: [TS-520_820_ 530_830] Help NO TX or RX on 15 meters

Stephen, Maybe the Xtal is dead - it happens often with Kenwood - Trio vintage gear. To be sure, find a place to check if there is RF output from the Xtak oscillator and change bands. If nothing on 15, you're in some trouble. If you have a scope, even a low frequency one, it's ok, you don't want to measure, just to check. Without a scope, build a simple RF sensor on the PC board with a germanium diode, a 2-10 pF coupling cap, a 10 k resistor and a 10 nF decoupling cap, plus your VOM, doesn't have to be digital, that's OK. Refer to the user's or service manual to find a suitable check point. Good luck & 73's - Daniel, ON5PY

2009/8/23, Stephen Judd <swanradios@yahoo. com<mailto:swanradios% 40yahoo.com> >:
>
>
>
> Hello All
> I have a ts-520 with absolutly no tx or rx on 15 meters all other bands are
> great very nice receive and transmit just nothing on 15 the crystal is there
> and cleaned all wafer switches and relays any help will be great thanks 73
> Stephen/KB7BGS
>
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[Non-text portions of this message have been removed]

22186. Re: [TS-520_820_530_830] Re: AT-230 (adding meter lamp)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-25 00:26:02 UTC
From: Dave ve3wej
Topic: 6938 Message: 22186

my at200 is using the 12 v ac from the socket, so no external supply needed,
and the light goes out when the radio is turned off

----- Original Message -----
From: "james27613" <james27613@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, August 24, 2009 4:55 PM
Subject: [TS-520_820_530_830] Re: AT-230 (adding meter lamp)

> Hi,
>
> you can add a small lamp socket using either a few drops of
> superglue or 5 min epoxy to attach it to the inside of the tuner,
> very easy to remove it if you need to.
>
> pass the power cable out the back panel in the lower corners
> and you're good to go.
>
> 73 james ke4drn
>
>> Dan I would be very careful with any kind of a mod if the AT-230 is in
>> decent shape. These are becoming difficult to find in good condition and
>> are bringing pretty good prices. Any mod could make it worth less as time
>> goes on.
>>
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

22187. 830 station for sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-25 01:19:45 UTC
From: yash@aol.com
Topic: 22187 Message: 22187

Need to make some room in the shack,so time to sell or trade the complete ts-830 station.

consisting of the following:
1. Ts-830s
2. vfo-230 digital vfo.
3. sp-230 filtered remote speaker
4. at-230 ant. tuner
all manuals,cables and desk mic..shure.
All the gear is a easy 9/10,with no operational issues,plug and play.
OPEN TO TRADES FOR HF GEAR. Main interest,Icom 746,746pro,756 pro, ft-920.or ts-480
stright trade or can add $$.

asking 850.00 split shipping.

Might consider splitting the station up. would really like to sell as a package.
thanks
dale wt4t

please contact me off line? yash@...

[Non-text portions of this message have been removed]

22188. Re: Help NO TX or RX on 15 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-25 01:53:36 UTC
From: w5rkl
Topic: 22147 Message: 22188

Check fixed cap C4 across L4 and C5 in series with C4/L4 to ground.

Just a thought.

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Stephen Judd <swanradios@...> wrote:
>
> I have just place a VTVM in line off of test point 3 to make the alignment per repair manual for the oscillator coil on 15 meters and everything works perfect tuned great as soon as I remove the meter output drops to 15 watts
>
> Stephen/KB7BGS
>
> --- On Mon, 8/24/09, Greg Anders <greg.anders@...> wrote:
>
>
> From: Greg Anders <greg.anders@...>
> Subject: RE: [TS-520_820_530_830] Help NO TX or RX on 15 meters
> To: "TS-520_820_530_830@yahoogroups.com" <TS-520_820_530_830@yahoogroups.com>
> Date: Monday, August 24, 2009, 10:35 AM
>
>
>
>
>
>
>
> It is also possible that the heterodyne oscillator coil for the 15M band is out of alignement. If someone tweeked it past the "peak" point enough it would just stop oscillating and appear to be a dead crystal....
>
> Greg
>
> From: TS-520_820_530_ 830@yahoogroups. com [mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of Daniel TOESCA
> Sent: Monday, August 24, 2009 9:31 AM
> To: TS-520_820_530_ 830@yahoogroups. com
> Subject: Re: [TS-520_820_ 530_830] Help NO TX or RX on 15 meters
>
> Stephen, Maybe the Xtal is dead - it happens often with Kenwood - Trio
> vintage gear. To be sure, find a place to check if there is RF output from
> the Xtak oscillator and change bands. If nothing on 15, you're in some
> trouble. If you have a scope, even a low frequency one, it's ok, you don't
> want to measure, just to check. Without a scope, build a simple RF sensor
> on the PC board with a germanium diode, a 2-10 pF coupling cap, a 10 k

> resistor and a 10 nF decoupling cap, plus your VOM, doesn't have to be
> digital, that's OK. Refer to the user's or service manual to find a
> suitable check point. Good luck & 73's - Daniel, ON5PY
>
> 2009/8/23, Stephen Judd <swanradios@yahoo. com<mailto:swanradios% 40yahoo.com> >:
> >
> >
> >
> > Hello All
> > I have a ts-520 with absolutly no tx or rx on 15 meters all other bands are
> > great very nice receive and transmit just nothing on 15 the crystal is there
> > and cleaned all wafer switches and relays any help will be great thanks 73
> > Stephen/KB7BGS
> >
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22189. TS 830 intermittent/fluctuating on 80, also microphone setting suggestions?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-25 09:07:23 UTC
From: kg4kri
Topic: 22189 Message: 22189

Hello all,
I have noticed a problem with my 830- when transmitting on 80 meters,
the plate current and rf output fluctuate wildly. This occurs in cw and ssb mode. This may be the alc bandswitch problem referred to in the 830 survival guide. Opinions, suggestions or cures are appreciated.

The survival guide suggests using conductive paint to fix the problem- where can I find conductive paint?

On a different topic, I would like suggestions about the best mic gain and processor settings using the mc 50 mic with the 830.

Thanks and 73,
Daniel

22190. sell ts-830 complete station

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-25 15:23:59 UTC
From: yash@aol.com
Topic: 22190 Message: 22190

Have decided to split my ts-830 station,all 9/10,no issues,manuals.
1. ts-830s transceiver 350.00,split shipping.
2. vfo-230,cable,manual 250.00,split shipping.
3. sp-230 speaker,cable 150.00 split shipping.
4. at-230 tuner 250.00 split shipping
asking 850.00 for complete station as a package..split shipping.
thanks
dale wt4t

please contact me off line at??? yash@...

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22191. Looking for TS830S front panel...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-25 15:57:26 UTC
From: gperazzoli
Topic: 22191 Message: 22191

Hi,

I'm Guido, LW8EOQ, from Argentina. I own a Kenwood TS-830S that works ok.

Previous owner had a problem with a hot soldering iron that fell on the front of the rig. He tried to repair it, but there's a awful dent in the upper right corner.

I'm looking for a front panel in good shape.

If you happen to have a spare one, please contact me by email.

Thank you.

73,
Guido, LW8EOQ
Argentina

22192. Re: [TS-520_820_530_830] Re: TS 830 Rectifier Problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-25 16:11:18 UTC
From: George Campbell
Topic: 22178 Message: 22192

MIKE...I TOOK UR SUGGESTIUON...UR RIGHT...D 12 ACROSS RL-1 IS SHORTED OUT...THE CLOSEST DIODE RECTIFIER REPLACEMENT I HAVE IN MY PARTS BOX IS A 1N5399 WHICH IS 1.5 A 1000VOLT DIODE...DO U THINK THIS REPLACEMENT DIODE WILL WORK IN THE RELAY CIRCUIT? IF NOT I WILL HAVE TO ORDER AN EXACT REPLACEMENT FOR THE 1S1555 FROM DIGI-KEY....GEORGE W1GCC

--- On Mon, 8/24/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: TS 830 Rectifier Problems
To: TS-520_820_530_830@yahoogroups.com
Date: Monday, August 24, 2009, 5:29 PM

Check D12 across RL1 on the Rectifier Unit, it may be bad.

73
Mike W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, "campbellgc@ ..." <campbellgc@ ...> wrote:
>
> To Kenwood TS 830 Techs...I have personally maintained my TS 830 since I purchased the transceiver in 1980..Over 300 countries worked..I now have an "unsolveable" Rectifier problem....R 11 470 ohm resister gets taken out when I try to Tune the Drive section coils in the RF section..When I throw the SG switch to off that is on the rear of the rig the Digital Display on the front of the rig goes dark, I think this indicates some sort of short???? I can not find it. I replaced the 470 ohm R-11 twice along with the relay RL-1 in the rectifier section Before I throw the SG switch I get 65 ma of Bias. After the R-11 goes south, no Bias....HELP. ..George Campbell W1GCC Stuart,FL
>

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22193. RE: [TS-520_820_530_830] Help NO TX or RX on 15 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-25 01:04:22 UTC
From: John Davidson
Topic: 22147 Message: 22193

Your meter probe must be detuning the circuit, try retuning this point, just using rf output reading t peak the coil.

--- On Mon, 8/24/09, Stephen Judd <swanradios@...> wrote:

I have just place a VTVM in line off of test point 3 to make the alignment per repair manual for the oscillator coil on 15 meters and everything works perfect tuned great as soon as I remove the meter output drops to 15 watts

Stephen/KB7BGS

--- On Mon, 8/24/09, Greg Anders <greg.anders@ synopsys. com> wrote:

From: Greg Anders <greg.anders@ synopsys. com>
Subject: RE: [TS-520_820_ 530_830] Help NO TX or RX on 15 meters
To: "TS-520_820_530_ 830@yahoogroups. com" <TS-520_820_530_ 830@yahoogroups. com>
Date: Monday, August 24, 2009, 10:35 AM

It is also possible that the heterodyne oscillator coil for the 15M band is out of alignement. If someone tweeked it past the "peak" point enough it would just stop oscillating and appear to be a dead crystal....

Greg

From: TS-520_820_530_ 830@yahoogroups. com [mailto:TS-520_ 820_530_ 830@yahoogroups. com] On Behalf Of Daniel TOESCA
Sent: Monday, August 24, 2009 9:31 AM
To: TS-520_820_530_ 830@yahoogroups. com
Subject: Re: [TS-520_820_ 530_830] Help NO TX or RX on 15 meters

Stephen, Maybe the Xtal is dead - it happens often with Kenwood - Trio vintage gear. To be sure, find a place to check if there is RF output from the Xtak oscillator and change bands. If nothing on 15, you're in some trouble. If you have a scope, even a low frequency one, it's ok, you don't want to measure, just to check. Without a scope, build a simple RF sensor on the PC board with a germanium diode, a 2-10 pF coupling cap, a 10 k resistor and a 10 nF decoupling cap, plus your VOM, doesn't have to be digital, that's OK. Refer to the user's or service manual to find a suitable check point. Good luck & 73's - Daniel, ON5PY

2009/8/23, Stephen Judd <swanradios@ yahoo. com<mailto:swanradi os% 40yahoo.com> >:
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> Hello All
> I have a ts-520 with absolutly no tx or rx on 15 meters all other bands are
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> and cleaned all wafer switches and relays any help will be great thanks 73
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22194. Re: [TS-520_820_530_830] Re: TS 830 Rectifier Problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-25 17:33:02 UTC
From: Gordon JC Pearce
Topic: 22178 Message: 22194

On Tue, 2009-08-25 at 09:11 -0700, George Campbell wrote:
> MIKE...I TOOK UR SUGGESTIUON...UR RIGHT...D 12 ACROSS RL-1 IS SHORTED
> OUT...THE CLOSEST DIODE RECTIFIER REPLACEMENT I HAVE IN MY PARTS BOX
> IS A 1N5399 WHICH IS 1.5 A 1000VOLT DIODE...DO U THINK THIS
> REPLACEMENT DIODE WILL WORK IN THE RELAY CIRCUIT? IF NOT I WILL HAVE
> TO ORDER AN EXACT REPLACEMENT FOR THE 1S1555 FROM DIGI-KEY....GEORGE
> W1GCC

That should be more than adequate. Isn't a 1S1555 a fairly small
switching diode, more like a 1N4148?

Gordon 2M0YEQ

22195. Re: TS 830 Rectifier Problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-25 18:56:10 UTC
From: w5rkl
Topic: 22178 Message: 22195

George,

Yes, a 1N5399 will do fine as a replacement for D12.

I assume you either removed D12 from the circuit or pulled one leg of D12 to make your measurement.

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, George Campbell <campbellgc@...> wrote:
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> MIKE...I TOOK UR SUGGESTIUON...UR RIGHT...D 12 ACROSS RL-1 IS SHORTED OUT...THE CLOSEST DIODE RECTIFIER REPLACEMENT I HAVE IN MY PARTS BOX IS A 1N5399 WHICH IS 1.5 A 1000VOLT DIODE...DO U THINK THIS REPLACEMENT DIODE WILL WORK IN THE RELAY CIRCUIT? IF NOT I WILL HAVE TO ORDER AN EXACT REPLACEMENT FOR THE 1S1555 FROM DIGI-KEY....GEORGE W1GCC
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> --- On Mon, 8/24/09, w5rkl <w5rkl@...> wrote:
>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: TS 830 Rectifier Problems
> To: TS-520_820_530_830@yahoogroups.com
> Date: Monday, August 24, 2009, 5:29 PM
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> Check D12 across RL1 on the Rectifier Unit, it may be bad.
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> > To Kenwood TS 830 Techs...I have personally maintained my TS 830 since I purchased the transceiver in 1980..Over 300 countries worked..I now have an "unsolveable" Rectifier problem....R 11 470 ohm resister gets taken out when I try to Tune the Drive section coils in the RF section..When I throw the SG switch to off that is on the rear of the rig the Digital Display on the front of the rig goes dark, I think this indicates some sort of short???? I can not find it. I replaced the 470 ohm R-11 twice along with the relay RL-1 in the rectifier section Before I throw the SG switch I get 65 ma of Bias. After the R-11 goes south, no Bias....HELP. ..George Campbell W1GCC Stuart,FL
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22196. Re: Help NO TX or RX on 15 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-25 19:58:39 UTC
From: w5rkl
Topic: 22147 Message: 22196

The TS-520 adjustment step in question, page 43 step 5 "Coil pack alignment" in the service manual requires a VTVM with an "RF Probe". Using a normal DC or AC probe with a VTVM to accomplish that step will not work, the readings will be false.

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, John Davidson <k8jd@...> wrote:
>
> Your meter probe must be detuning the circuit, try retuning this point, just using rf output reading t peak the coil.
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> --- On Mon, 8/24/09, Stephen Judd <swanradios@...> wrote:
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> --- On Mon, 8/24/09, Greg Anders <greg.anders@ synopsys. com> wrote:
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> From: Greg Anders <greg.anders@ synopsys. com>
> Subject: RE: [TS-520_820_ 530_830] Help NO TX or RX on 15 meters
> To: "TS-520_820_530_ 830@yahoogroups. com" <TS-520_820_530_ 830@yahoogroups. com>
> Date: Monday, August 24, 2009, 10:35 AM
>
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> It is also possible that the heterodyne oscillator coil for the 15M band is out of alignement. If someone tweeked it past the "peak" point enough it would just stop oscillating and appear to be a dead crystal....
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> Greg
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> From: TS-520_820_530_ 830@yahoogroups. com [mailto:TS-520_ 820_530_ 830@yahoogroups. com] On Behalf Of Daniel TOESCA
> Sent: Monday, August 24, 2009 9:31 AM
> To: TS-520_820_530_ 830@yahoogroups. com
> Subject: Re: [TS-520_820_ 530_830] Help NO TX or RX on 15 meters

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> Stephen, Maybe the Xtal is dead - it happens often with Kenwood - Trio
> vintage gear. To be sure, find a place to check if there is RF output from
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> 2009/8/23, Stephen Judd <swanradios@ yahoo. com<mailto:swanradi os% 40yahoo.com> >:
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> > Hello All
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22197. Re: [TS-520_820_530_830] Re: TS 830 Rectifier Problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-25 20:17:39 UTC
From: George Campbell
Topic: 22178 Message: 22197

Yes Gordon...The D-12 diode is only 4 mm in size.It wud not take much to knock it out...George W1GCC

--- On Tue, 8/25/09, Gordon JC Pearce <gordon@gjcp.net> wrote:

From: Gordon JC Pearce <gordon@...>
Subject: Re: [TS-520_820_530_830] Re: TS 830 Rectifier Problems
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, August 25, 2009, 1:33 PM

On Tue, 2009-08-25 at 09:11 -0700, George Campbell wrote:
> MIKE...I TOOK UR SUGGESTIUON. ..UR RIGHT...D 12 ACROSS RL-1 IS SHORTED
> OUT...THE CLOSEST DIODE RECTIFIER REPLACEMENT I HAVE IN MY PARTS BOX
> IS A 1N5399 WHICH IS 1.5 A 1000VOLT DIODE...DO U THINK THIS
> REPLACEMENT DIODE WILL WORK IN THE RELAY CIRCUIT? IF NOT I WILL HAVE
> TO ORDER AN EXACT REPLACEMENT FOR THE 1S1555 FROM DIGI-KEY.... GEORGE
> W1GCC

That should be more than adequate. Isn't a 1S1555 a fairly small
switching diode, more like a 1N4148?

Gordon 2M0YEQ

[Non-text portions of this message have been removed]

22198. Re: [TS-520_820_530_830] Re: TS 830 Rectifier Problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-25 20:08:31 UTC
From: George Campbell
Topic: 22178 Message: 22198

Mike...Many tks for the advice...I am in the process of checking out the resisters in the rectifier board in case there other "soft" or shorted ones...Yes, I took the D12 completely out of the circuit board...measured -0- the same when the probes are reversed in the diode test position on my Sperry DM-4100 meter...I kinda wondered what caused the D-12 to break down. When I get the rectifier board put back together I will check the 14 V comming from the SGS wire from the xformer....Perhaps there might have been a spike in the voltage some where along the line to cause a breakdown with diode D12. Thanks again Mike...I will let u know if a new diode rectifies the rectifier circuit.....George WGCC...Stuart,FL

--- On Tue, 8/25/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: TS 830 Rectifier Problems
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, August 25, 2009, 2:56 PM

George,

Yes, a 1N5399 will do fine as a replacement for D12.

I assume you either removed D12 from the circuit or pulled one leg of D12 to make your measurement.

73
Mike W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, George Campbell <campbellgc@ ...> wrote:
>
> MIKE...I TOOK UR SUGGESTIUON. ..UR RIGHT...D 12 ACROSS RL-1 IS SHORTED OUT...THE CLOSEST DIODE RECTIFIER REPLACEMENT I HAVE IN MY PARTS BOX IS A 1N5399 WHICH IS 1.5 A 1000VOLT DIODE...DO U THINK THIS REPLACEMENT DIODE WILL WORK IN THE RELAY CIRCUIT? IF NOT I WILL HAVE TO ORDER AN EXACT REPLACEMENT FOR THE 1S1555 FROM DIGI-KEY.... GEORGE W1GCC
>
> --- On Mon, 8/24/09, w5rkl <w5rkl@...> wrote:
>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_ 530_830] Re: TS 830 Rectifier Problems
> To: TS-520_820_530_ 830@yahoogroups. com
> Date: Monday, August 24, 2009, 5:29 PM
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> Check D12 across RL1 on the Rectifier Unit, it may be bad.

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> 73
> Mike W5RKL
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> --- In TS-520_820_530_ 830@yahoogroups. com, "campbellgc@ ..." <campbellgc@ ...> wrote:
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> > To Kenwood TS 830 Techs...I have personally maintained my TS 830 since I purchased the transceiver in 1980..Over 300 countries worked..I now have an "unsolveable" Rectifier problem....R 11 470 ohm resister gets taken out when I try to Tune the Drive section coils in the RF section..When I throw the SG switch to off that is on the rear of the rig the Digital Display on the front of the rig goes dark, I think this indicates some sort of short???? I can not find it. I replaced the 470 ohm R-11 twice along with the relay RL-1 in the rectifier section Before I throw the SG switch I get 65 ma of Bias. After the R-11 goes south, no Bias....HELP. ..George Campbell W1GCC Stuart,FL
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22199. Re: [TS-520_820_530_830] Re: TS 830 Rectifier Problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-25 20:31:12 UTC
From: Daniel TOESCA
Topic: 22178 Message: 22199

Just to be sure, I would use a small power rectifier from a discarded appliance, like a 1N400X, X beeing 1 to 7.

Be careful with polarity when replacing.

Good luck & 73's - Daniel, ON5PY

2009/8/25, George Campbell <campbellgc@...>:
>
>
>
> Yes Gordon...The D-12 diode is only 4 mm in size.It wud not take much to
> knock it out...George W1GCC
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> --- On Tue, 8/25/09, Gordon JC Pearce <gordon@... <gordon%40gjcp.net>>
> wrote:
>
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> Subject: Re: [TS-520_820_530_830] Re: TS 830 Rectifier Problems
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> Gordon 2M0YEQ
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22200. Re: TS 830 Rectifier Problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-25 23:41:58 UTC
From: w5rkl
Topic: 22178 Message: 22200

George,

The original D12 diode, 1S1555, is a 35VDC 300ma switching diode. It is possible a surge exceeded D12's maximum PIV rating of 30VDC at 100ma.

The 1N5399 general purpose silicon diode is more than enough to use as a replacement for D12. Naturally a 1N5399 is a bit over kill but it will work.

As previously mention, ensure the replacement diode is installed correctly, banded end lead towards the "12" terminal on the Rectifier Unit. The Rectifier Unit silk screen should indicate which lead the diode's banded lead is to be inserted.

One more comment. I noticed I didn't comment on R11, 470 ohm resistor, on the Rectifier Unit.

I suspect C181 is shorted internally. C181 is located on the IF UNIT and C181 is the filter capacitor for the 210VDC supply. If C181 is shorted internally, an excessive amount of current will flow through R11 resulting in R11 over heating and being destroyed. C181 is a 22ufd 350VDC radial lead capacitor which is available at Mouser Electronics.

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, George Campbell <campbellgc@...> wrote:
>
> Mike...Many tks for the advice...I am in the process of checking out the resisters in the rectifier board in case there other "soft" or shorted ones...Yes, I took the D12 completely out of the circuit board...measured -0- the same when the probes are reversed in the diode test position on my Sperry DM-4100 meter...I kinda wondered what caused the D-12 to break down. When I get the rectifier board put back together I will check the 14 V comming from the SGS wire from the xformer....Perhaps there might have been a spike in the voltage some where along the line to cause a breakdown with diode D12. Thanks again Mike...I will let u know if a new diode rectifies the rectifier circuit.....George WGCC...Stuart,FL
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> --- On Tue, 8/25/09, w5rkl <w5rkl@...> wrote:
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> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: TS 830 Rectifier Problems
> To: TS-520_820_530_830@yahoogroups.com
> Date: Tuesday, August 25, 2009, 2:56 PM
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> George,
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> >
> >
> > From: w5rkl <w5rkl@>
> > Subject: [TS-520_820_ 530_830] Re: TS 830 Rectifier Problems
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Date: Monday, August 24, 2009, 5:29 PM
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> >
> > Check D12 across RL1 on the Rectifier Unit, it may be bad.
> >
> > 73
> > Mike W5RKL
> >
> > --- In TS-520_820_530_ 830@yahoogroups. com, "campbellgc@ ..." <campbellgc@ ...> wrote:
> > >
> > > To Kenwood TS 830 Techs...I have personally maintained my TS 830 since I purchased the transceiver in 1980..Over 300 countries worked..I now have an "unsolveable" Rectifier problem....R 11 470 ohm resister gets taken out when I try to Tune the Drive section coils in the RF section..When I throw the SG switch to off that is on the rear of the rig the Digital Display on the front of the rig goes dark, I think this indicates some sort of short???? I can not find it. I replaced the 470 ohm R-11 twice along with the relay RL-1 in the rectifier section Before I throw the SG switch I get 65 ma of Bias. After the R-11 goes south, no Bias....HELP. ..George Campbell W1GCC Stuart,FL
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22201. astatic d104m6b hand mike

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-25 23:26:53 UTC
From: nbfcbees@btinternet.com
Topic: 22201 Message: 22201

I am new to this board so expect someone has asked before but cant find a previous post on subject.Just need to no colour code connection and pins to wire this mike to a ts520 .

22202. Re: [TS-520_820_530_830] astatic d104m6b hand mike

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-26 00:21:06 UTC
From: Dave ve3wej
Topic: 22201 Message: 22202

www.astatic.com download the pdf of wiring...

----- Original Message -----
From: <nbfcbees@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, August 25, 2009 7:26 PM
Subject: [TS-520_820_530_830] astatic d104m6b hand mike

>I am new to this board so expect someone has asked before but cant find a
>previous post on subject.Just need to no colour code connection and pins to
>wire this mike to a ts520 .
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> Yahoo! Groups Links
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22203. Look for a YG-3395c

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-26 03:55:47 UTC
From: bornofthehorses
Topic: 22203 Message: 22203

Anyone have a YG-3395c cw filter for a TS-520s, missed out on the 1 at R&L Electronics I guess. Can not get the order screen to come up after the listing page so I assume its sold.
Ken

22204. Re: [TS-520_820_530_830] Help NO TX or RX on 15 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-26 15:02:38 UTC
From: martin
Topic: 22147 Message: 22204

Hi Stephen. If you do not have the test equipment to do the alignment procedure in the service manual, I suggest doing the procedure in the user manual. It basically only requires the correct alignment tool(s), and a DC voltmeter(and possibly a frequency counter). I would try aligning just the 15M section, as you say all other bands work fine.

TTYL and good luck!

Stephen Judd wrote:
> I have just place a VTVM in line off of test point 3 to make the
> alignment per repair manual for the oscillator coil on 15 meters
> and everything works perfect tuned great as soon as I remove the
> meter output drops to 15 watts
>
> Stephen/KB7BGS

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at http://www.defectivebydesign.org/what_is_drm"

22205. ts-520s modifications

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-26 16:18:55 UTC
From: w8iss
Topic: 22147 Message: 22205

I am looking for any and all modifications that could have been done
to a ts520s over the years.

I have one that a friend is checking out for me and he has told me that
there has been some modifications done to it that he can't figure out
what there are for. He says there are a few wires that don't make sense
to him at all...:(

Is there a comprehensive page out there that I can look at that has a
GOOD majority of the modfications that were available over the years
to this nice radio? It does receive nicely but we are not sure about the
transmit yet as I am not that good at hollow state technology.

Thanks in advance,

James W8ISS

22206. Re: [TS-520_820_530_830] Re: TS 830 Rectifier Problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-26 09:40:17 UTC
From: George Campbell
Topic: 22178 Message: 22206

THANKS DAN FOR THE TIP ON THE DIODE....GEORGE W1GCC

--- On Tue, 8/25/09, Daniel TOESCA <ON5PY1967@...> wrote:

From: Daniel TOESCA <ON5PY1967@GMAIL.COM>
Subject: Re: [TS-520_820_530_830] Re: TS 830 Rectifier Problems
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, August 25, 2009, 4:31 PM

Just to be sure, I would use a small power rectifier from a discarded
appliance, like a 1N400X, X beeing 1 to 7.

Be careful with polarity when replacing.

Good luck & 73's - Daniel, ON5PY

2009/8/25, George Campbell <campbellgc@bellsout h.net>:
>
>
>
> Yes Gordon...The D-12 diode is only 4 mm in size.It wud not take much to
> knock it out...George W1GCC
>
> --- On Tue, 8/25/09, Gordon JC Pearce <gordon@gjcp. net <gordon%40gjcp. net>>
> wrote:
>
> From: Gordon JC Pearce <gordon@gjcp. net <gordon%40gjcp. net>>
> Subject: Re: [TS-520_820_ 530_830] Re: TS 830 Rectifier Problems
> To: TS-520_820_530_ 830@yahoogroups. com<TS-520_820_ 530_830%40yahoog roups.com>
> Date: Tuesday, August 25, 2009, 1:33 PM
>
>
>
> On Tue, 2009-08-25 at 09:11 -0700, George Campbell wrote:
> > MIKE...I TOOK UR SUGGESTIUON. ..UR RIGHT...D 12 ACROSS RL-1 IS SHORTED
> > OUT...THE CLOSEST DIODE RECTIFIER REPLACEMENT I HAVE IN MY PARTS BOX
> > IS A 1N5399 WHICH IS 1.5 A 1000VOLT DIODE...DO U THINK THIS
> > REPLACEMENT DIODE WILL WORK IN THE RELAY CIRCUIT? IF NOT I WILL HAVE
> > TO ORDER AN EXACT REPLACEMENT FOR THE 1S1555 FROM DIGI-KEY.... GEORGE
> > W1GCC
>
> That should be more than adequate. Isn't a 1S1555 a fairly small
> switching diode, more like a 1N4148?
>
> Gordon 2M0YEQ
>

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22207. Re: [TS-520_820_530_830] Re: TS 830 Rectifier Problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-26 09:23:54 UTC
From: George Campbell
Topic: 22178 Message: 22207

Mike...Thanks for the follow-up on R-11 in the rectifier unit...I am impressed by ur Kenwood "savvy".Your right C-181 was shorted. I noticed that it was shorted a few weeks ago when I was tracking down the no drive problem so I replaced C-181. So now I know what knocked out R-11 in the rectifier unit...I will be replacing diode D-12 today...I will let you know the results...I hope when I throw the SG switch to off I will be able to tune the coils in the final drive section without the freq. dial shorting out....George W1GCC...Stuart,FL

--- On Tue, 8/25/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: TS 830 Rectifier Problems
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, August 25, 2009, 7:41 PM

George,

The original D12 diode, 1S1555, is a 35VDC 300ma switching diode. It is possible a surge exceeded D12's maximum PIV rating of 30VDC at 100ma.

The 1N5399 general purpose silicon diode is more than enough to use as a replacement for D12. Naturally a 1N5399 is a bit over kill but it will work.

As previously mention, ensure the replacement diode is installed correctly, banded end lead towards the "12" terminal on the Rectifier Unit. The Rectifier Unit silk screen should indicate which lead the diode's banded lead is to be inserted.

One more comment. I noticed I didn't comment on R11, 470 ohm resistor, on the Rectifier Unit.

I suspect C181 is shorted internally. C181 is located on the IF UNIT and C181 is the filter capacitor for the 210VDC supply. If C181 is shorted internally, an excessive amount of current will flow through R11 resulting in R11 over heating and being destroyed. C181 is a 22ufd 350VDC radial lead capacitor which is available at Mouser Electronics.

73
Mike W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, George Campbell <campbellgc@ ...> wrote:
>
> Mike...Many tks for the advice...I am in the process of checking out the resisters in the rectifier board in case there other "soft" or shorted ones...Yes, I took the D12 completely out of the circuit board...measured -0- the same when the probes are reversed in the diode test position on my Sperry DM-4100 meter...I kinda wondered what caused the D-12 to break down. When I get the rectifier board put back together I will check the 14 V comming from the SGS wire from the xformer....Perhaps there might have been a spike in the voltage some where along the line to cause a breakdown with diode D12. Thanks again Mike...I will let u

know if a new diode rectifies the rectifier circuit..... George WGCC...Stuart, FL
>
> --- On Tue, 8/25/09, w5rkl <w5rkl@...> wrote:
>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_ 530_830] Re: TS 830 Rectifier Problems
> To: TS-520_820_530_ 830@yahoogroups. com
> Date: Tuesday, August 25, 2009, 2:56 PM
>
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>
> George,
>
> Yes, a 1N5399 will do fine as a replacement for D12.
>
> I assume you either removed D12 from the circuit or pulled one leg of D12 to make your measurement.
>
> 73
> Mike W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com, George Campbell <campbellgc@ ...> wrote:
> >
> > MIKE...I TOOK UR SUGGESTIUON. ..UR RIGHT...D 12 ACROSS RL-1 IS SHORTED OUT...THE CLOSEST DIODE RECTIFIER REPLACEMENT I HAVE IN MY PARTS BOX IS A 1N5399 WHICH IS 1.5 A 1000VOLT DIODE...DO U THINK THIS REPLACEMENT DIODE WILL WORK IN THE RELAY CIRCUIT? IF NOT I WILL HAVE TO ORDER AN EXACT REPLACEMENT FOR THE 1S1555 FROM DIGI-KEY.... GEORGE W1GCC
> >
> > --- On Mon, 8/24/09, w5rkl <w5rkl@> wrote:
> >
> >
> > From: w5rkl <w5rkl@>
> > Subject: [TS-520_820_ 530_830] Re: TS 830 Rectifier Problems
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Date: Monday, August 24, 2009, 5:29 PM
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> >
> > Check D12 across RL1 on the Rectifier Unit, it may be bad.
> >
> > 73
> > Mike W5RKL
> >
> > --- In TS-520_820_530_ 830@yahoogroups. com, "campbellgc@ ..." <campbellgc@ ...>

wrote:
> > >
> > > To Kenwood TS 830 Techs...I have personally maintained my TS 830 since I purchased the transceiver in 1980..Over 300 countries worked..I now have an "unsolveable" Rectifier problem....R 11 470 ohm resister gets taken out when I try to Tune the Drive section coils in the RF section..When I throw the SG switch to off that is on the rear of the rig the Digital Display on the front of the rig goes dark, I think this indicates some sort of short???? I can not find it. I replaced the 470 ohm R-11 twice along with the relay RL-1 in the rectifier section Before I throw the SG switch I get 65 ma of Bias. After the R-11 goes south, no Bias....HELP. ..George Campbell W1GCC Stuart,FL
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22208. RE: [TS-520_820_530_830] ts-520s modifications

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-26 16:35:33 UTC
From: Greg Anders
Topic: 22147 Message: 22208

Hi There,

"mods.dk" on the internet has a substantial list of modifications for the 520 series along with many other radios. The one caveat is that they have different levels of access. If you take free access you can only look at one file per 24 hr period. If you subscribe you can view/download 5 per 24 hr period.

FYI,

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w8iss
Sent: Wednesday, August 26, 2009 9:19 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] ts-520s modifications

I am looking for any and all modifications that could have been done
to a ts520s over the years.

I have one that a friend is checking out for me and he has told me that
there has been some modifications done to it that he can't figure out
what there are for. He says there are a few wires that don't make sense
to him at all...:(

Is there a comprehensive page out there that I can look at that has a
GOOD majority of the modfications that were available over the years
to this nice radio? It does receive nicely but we are not sure about the
transmit yet as I am not that good at hollow state technology.

Thanks in advance,

James W8ISS

[Non-text portions of this message have been removed]

22209. Re: [TS-520_820_530_830] Look for a YG-3395c

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-26 20:54:36 UTC
From: Dave ve3wej
Topic: 22203 Message: 22209

they have a 800 toll free number....

----- Original Message -----
From: "bornofthehorses" <bornofthehorses@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, August 25, 2009 11:55 PM
Subject: [TS-520_820_530_830] Look for a YG-3395c

> Anyone have a YG-3395c cw filter for a TS-520s, missed out on the 1 at R&L
> Electronics I guess. Can not get the order screen to come up after the
> listing page so I assume its sold.
> Ken
>
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> Yahoo! Groups Links
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22210. Re: Look for a YG-3395c

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-26 22:28:05 UTC
From: w5rkl
Topic: 22203 Message: 22210

INRAD sells a very nice filter for the 520 series. I have installed their filters in both 520s and 530s. They are excellent filters.

See INRAD's filter selection at the following link for further details.

http://www.qth.com/inrad/

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@...> wrote:
>
> they have a 800 toll free number....
>
>
> ----- Original Message -----
> From: "bornofthehorses" <bornofthehorses@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Tuesday, August 25, 2009 11:55 PM
> Subject: [TS-520_820_530_830] Look for a YG-3395c
>
>
> > Anyone have a YG-3395c cw filter for a TS-520s, missed out on the 1 at R&L
> > Electronics I guess. Can not get the order screen to come up after the
> > listing page so I assume its sold.
> > Ken
> >
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> > Yahoo! Groups Links
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>

22211. Re: [TS-520_820_530_830] Re: Look for a YG-3395c

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-27 01:32:30 UTC
From: ken bolin
Topic: 22203 Message: 22211

Thanks to both of you I will check them out.
Ken

--- On Wed, 8/26/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: Look for a YG-3395c
To: TS-520_820_530_830@...m
Date: Wednesday, August 26, 2009, 3:28 PM

INRAD sells a very nice filter for the 520 series. I have installed their filters in both 520s and 530s. They are excellent filters.

See INRAD's filter selection at the following link for further details.

http://www.qth.com/inrad/

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@...> wrote:
>
> they have a 800 toll free number....
>
>
> ----- Original Message -----
> From: "bornofthehorses" <bornofthehorses@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Tuesday, August 25, 2009 11:55 PM
> Subject: [TS-520_820_530_830] Look for a YG-3395c
>
>
> > Anyone have a YG-3395c cw filter for a TS-520s, missed out on the 1 at R&L
> > Electronics I guess. Can not get the order screen to come up after the
> > listing page so I assume its sold.
> > Ken
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Yahoo! Groups Links

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22212. Re: TS 830 Rectifier Problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-27 04:10:17 UTC
From: w5rkl
Topic: 22178 Message: 22212

George,

The Counter Unit was not the only circuit that failed when D12 on the Rectifier Unit shorted internally and the SG switch was set to the OFF position.

When diode D12 on the Rectifier Unit shorted internally and the SG switch was set to the OFF position, the SG switch caused a short to ground to exist across the AF UNIT's 12VDC supply. The AF UNIT's 12VDC supply is the source voltage for ALL 12VDC circuits.

The short across the 12VDC supply resulted in loss of DC power to the Counter Unit, the RF UNIT's receiver RF amplifier Q1 and amplifier/buffer Q2, almost all of the IF UNIT circuits, as well as the AF UNIT VOX relay control circuit, Q7.

The 210A supply, originating on the Rectifier Unit, failed because of a shorted C181 filter capacitor on the IF UNIT. When C181 shorted internally, C181 provided a direct short to ground on the IF UNIT plug 14 pin 2 resulting in loss of voltage from the 210A supply. The sort in the 210A supply resulted in loss of driver tube screen voltage, hence no RF output from the driver tube. A shorted C181 was also the reason R11 smoked.

One last suggestion. I would check diode D6 on the Rectifier Unit as it may have failed when C181 shorted internally. If D6 has failed and even though you have replaced C181, the driver tube screen voltage will still be missing resulting in the same no RF output symptom. Just be sure when replacing diodes to install them correctly.

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, George Campbell <campbellgc@...> wrote:
>
> Mike...Thanks for the follow-up on R-11 in the rectifier unit...I am impressed by ur Kenwood "savvy".Your right C-181 was shorted. I noticed that it was shorted a few weeks ago when I was tracking down the no drive problem so I replaced C-181. So now I know what knocked out R-11 in the rectifier unit...I will be replacing diode D-12 today...I will let you know the results...I hope when I throw the SG switch to off I will be able to tune the coils in the final drive section without the freq. dial shorting out....George W1GCC...Stuart,FL
>

22213. Re: ts-520s modifications

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-27 15:33:30 UTC
From: scott10k
Topic: 22147 Message: 22213

I concur with Greg. Most helpful is the full list of corrections to possible problems from Kenwood.
73s, Scott, N6CIC

--- In TS-520_820_530_830@yahoogroups.com, Greg Anders <greg.anders@...> wrote:
>
> Hi There,
>
> "mods.dk" on the internet has a substantial list of modifications for the 520 series along with many other radios. The one caveat is that they have different levels of access. If you take free access you can only look at one file per 24 hr period. If you subscribe you can view/download 5 per 24 hr period.
>
> FYI,
>
> Greg
> KG6YV
>
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w8iss
> Sent: Wednesday, August 26, 2009 9:19 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] ts-520s modifications
>
>
>
> I am looking for any and all modifications that could have been done
> to a ts520s over the years.
>
> I have one that a friend is checking out for me and he has told me that
> there has been some modifications done to it that he can't figure out
> what there are for. He says there are a few wires that don't make sense
> to him at all...:(
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> Is there a comprehensive page out there that I can look at that has a
> GOOD majority of the modfications that were available over the years
> to this nice radio? It does receive nicely but we are not sure about the
> transmit yet as I am not that good at hollow state technology.
>
> Thanks in advance,
>
> James W8ISS
>
>
>

> [Non-text portions of this message have been removed]
>

22214. Re: [TS-520_820_530_830] Re: TS 830 Rectifier Problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-27 14:45:54 UTC
From: George Campbell
Topic: 22178 Message: 22214

Mike...Tks for the "heads up" on the diode D6 in the rectifier board.....After I replaced D-12 with a new rectifier diode it took care of the previous dead short to the counter....When I went to tune the driver coils....no 210 volts on the drive circuit...I will check out your tip about D-6 and hope that corrects the missing 210 volts....I was going to again take out the entire RF board (a tedious task) and check out why no voltager from the driver tube...I will let you know how I make out....George W!GCC

--- On Thu, 8/27/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: TS 830 Rectifier Problems
To: TS-520_820_530_830@yahoogroups.com
Date: Thursday, August 27, 2009, 12:10 AM

George,

The Counter Unit was not the only circuit that failed when D12 on the Rectifier Unit shorted internally and the SG switch was set to the OFF position.

When diode D12 on the Rectifier Unit shorted internally and the SG switch was set to the OFF position, the SG switch caused a short to ground to exist across the AF UNIT's 12VDC supply. The AF UNIT's 12VDC supply is the source voltage for ALL 12VDC circuits.

The short across the 12VDC supply resulted in loss of DC power to the Counter Unit, the RF UNIT's receiver RF amplifier Q1 and amplifier/buffer Q2, almost all of the IF UNIT circuits, as well as the AF UNIT VOX relay control circuit, Q7.

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One last suggestion. I would check diode D6 on the Rectifier Unit as it may have failed when C181 shorted internally. If D6 has failed and even though you have replaced C181, the driver tube screen voltage will still be missing resulting in the same no RF output symptom. Just be sure when replacing diodes to install them correctly.

73
Mike W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, George Campbell <campbellgc@ ...> wrote:
>
> Mike...Thanks for the follow-up on R-11 in the rectifier unit...I am impressed by ur Kenwood "savvy".Your right C-181 was shorted. I noticed that it was shorted a few weeks ago when I was tracking down the no drive problem so I replaced C-181. So now I know what knocked out R-11 in the rectifier unit...I will be replacing diode D-12 today...I will let

you know the results...I hope when I throw the SG switch to off I will be able to tune the coils in the final drive section without the freq. dial shorting out....George W1GCC...Stuart, FL
>

[Non-text portions of this message have been removed]

22215. Re: ts-520s modifications

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-27 16:48:55 UTC
From: w5rkl
Topic: 22147 Message: 22215

I don't know what the 520 modification lists contains. However, there is one common modification that is performed with the 520 and 820 series transceivers and that is to modify both transceivers to operate on 11 meters in one or more of the 10 meter band switch settings.

This modification requires replacing one or more of the standard 520 or 820 10 meter heterodyne oscillator crystals with crystals that allow the 520 and 820 to operate on 11 meters. The 520 heterodyne oscillator crystals are located on the RF UNIT but the 820 heterodyne oscillator crystals are located in the PLL UNIT.

To determine if this modification(s) has been performed on either the 520 or 820, simply visually inspect the 10 meter heterodyne oscillator crystal frequencies stamped on the crystals themselves and compare the frequencies with the standard 10 meter crystals listed on the 520 RF UNIT schematic or the 820's PLL UNIT schematic. If the crystals are not the standard crystals, replacements can be obtained from International Crystals in Oklahoma City, Oklahoma for $22 a piece plus shipping. Alignment of 10 meters will be required once the "CB Hacker" modification has been removed.

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "scott10k" <scottandalene@...> wrote:
>
> I concur with Greg. Most helpful is the full list of corrections to possible problems from Kenwood.
> 73s, Scott, N6CIC
>
>
> --- In TS-520_820_530_830@yahoogroups.com, Greg Anders <greg.anders@> wrote:
> >
> > Hi There,
> >
> > "mods.dk" on the internet has a substantial list of modifications for the 520 series along with many other radios. The one caveat is that they have different levels of access. If you take free access you can only look at one file per 24 hr period. If you subscribe you can view/download 5 per 24 hr period.
> >
> > FYI,
> >
> > Greg
> > KG6YV
> >
> > From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w8iss
> > Sent: Wednesday, August 26, 2009 9:19 AM
> > To: TS-520_820_530_830@yahoogroups.com

> > Subject: [TS-520_820_530_830] ts-520s modifications
> >
> >
> >
> > I am looking for any and all modifications that could have been done
> > to a ts520s over the years.
> >
> > I have one that a friend is checking out for me and he has told me that
> > there has been some modifications done to it that he can't figure out
> > what there are for. He says there are a few wires that don't make sense
> > to him at all...:(
> >
> > Is there a comprehensive page out there that I can look at that has a
> > GOOD majority of the modfications that were available over the years
> > to this nice radio? It does receive nicely but we are not sure about the
> > transmit yet as I am not that good at hollow state technology.
> >
> > Thanks in advance,
> >
> > James W8ISS
> >
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> > [Non-text portions of this message have been removed]
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22216. Re: TS 830 Rectifier Problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-27 17:19:30 UTC
From: w5rkl
Topic: 22178 Message: 22216

Good deal George. By the way, you do not have to turn the Heater switch ON to check for the 210A voltage. The 210A voltage is there whether the Heater switch is turned ON or not.

I recommend leaving the Heater switch OFF, after replacing D6. Measure the 210A voltage on the RF UNIT's plug 9 pin 2 and not just at the Rectifier Unit's 210A terminal. Check both terminals for the presence of the 210A voltage, start with the Rectifier Unit first since that's where the 210A voltage originates from. The 210A voltage can be present at the Rectifier Unit but not at the RF UNIT plug 9 pin 2. I've seen this happen a few times.

If the 210A voltage is present after replacing D6 on the Rectifier Unit, then turn the Heater switch ON and watch for any abnormal symptoms such as smoke, crackling, sizzling, or the fuse blows.

If everything is working properly after replacing D6, along with all the other components you replaced, I suspect the 830 will work fine now. Of course you will have to check the alignment to be sure the 830 is operating up to specifications.

Take your time, don't be in a hurry. Never assume anything, check the operation against the service and operator's manuals to be sure. Set the final amplifier's idling current as outlined in the operator's manual before attempting any alignment. If any of the tube plates turn red after the tubes warm up, turn the 830's Heater switch OFF immediately. Turning the Heater switch off, removes filament voltage from the tubes and prevents the tubes from conducting.

Tubes that show color in standby (red plates) indicates, in many but not all cases, a loss of negative grid bias voltage to the tube grids.

The negative bias voltage originates on the Rectifier Unit's "-C" supply. You can check for the presence of the -C voltage on the AF UNIT's "-C" terminal and the RF UNIT's "FG" terminal. The Final Unit's "FG" terminal voltage which is the same -C voltage, should vary as you rotate the rear panel's bias pot. This is normal.

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, George Campbell <campbellgc@...> wrote:
>
> Mike...Tks for the "heads up" on the diode D6 in the rectifier board.....After I replaced D-12 with a new rectifier diode it took care of the previous dead short to the counter....When I went to tune the driver coils....no 210 volts on the drive circuit...I will check out your tip about D-6 and hope that corrects the missing 210 volts....I was going to again take out the entire RF board (a tedious task) and check out why no voltager from the driver tube...I will let you know how I make out....George W!GCC
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> --- On Thu, 8/27/09, w5rkl <w5rkl@...> wrote:
>
>

> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: TS 830 Rectifier Problems
> To: TS-520_820_530_830@yahoogroups.com
> Date: Thursday, August 27, 2009, 12:10 AM
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> The short across the 12VDC supply resulted in loss of DC power to the Counter Unit, the RF UNIT's receiver RF amplifier Q1 and amplifier/buffer Q2, almost all of the IF UNIT circuits, as well as the AF UNIT VOX relay control circuit, Q7.
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> The 210A supply, originating on the Rectifier Unit, failed because of a shorted C181 filter capacitor on the IF UNIT. When C181 shorted internally, C181 provided a direct short to ground on the IF UNIT plug 14 pin 2 resulting in loss of voltage from the 210A supply. The sort in the 210A supply resulted in loss of driver tube screen voltage, hence no RF output from the driver tube. A shorted C181 was also the reason R11 smoked.
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> One last suggestion. I would check diode D6 on the Rectifier Unit as it may have failed when C181 shorted internally. If D6 has failed and even though you have replaced C181, the driver tube screen voltage will still be missing resulting in the same no RF output symptom. Just be sure when replacing diodes to install them correctly.
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> Mike W5RKL
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22217. Re: TS 830 Rectifier Problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-27 17:30:52 UTC
From: w5rkl
Topic: 22178 Message: 22217

"I was going to again take out the entire RF board (a
tedious task) and check out why no voltage from the driver tube..."

In many cases this is not necessary. Voltages can be easily measured at the plug pins using a paper clip inserted into the plug. Voltages at the tube sockets can be measured with the Heater switch turned OFF and the tube removed. Care must be taken when working around the final amplifier since the HV is constantly present on the tube plate caps when power is applied to the 830. The only way to turn the HV OFF is to remove the HV connection on the Rectifier Unit and I don't recommend doing that. Just use standard safety precautions when working around HV, or any voltage circuit(s) and you should do fine.

73
Mike W5RKL

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> --- On Thu, 8/27/09, w5rkl <w5rkl@...> wrote:
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> Subject: [TS-520_820_530_830] Re: TS 830 Rectifier Problems
> To: TS-520_820_530_830@yahoogroups.com
> Date: Thursday, August 27, 2009, 12:10 AM
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22218. Re: [TS-520_820_530_830] Re: TS 830 Rectifier Problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-27 20:58:40 UTC
From: George Campbell
Topic: 22178 Message: 22218

Mike... The following are the measurments that I just completed on the rectifier boarb...tomorrow I will turn the TS-830 over and take measurments at the socket points of the 12BY7 and let you know...all the following are measurments are from the rectifier pins to ground...

AC pin marked 100..... 90 VAC to ground
AC pin marked 210 .....191 VAC to ground
A pin marked 210.......245 VDC to ground
AC pin marked 300......250 VAC to
ground SG pin marked
-2-.......245 VDC to ground
TUNE pin.....123 VDC to ground
14 pin..... 17 VDC to ground
SG1 pin.....124 VDC to ground
400 pin marked 400....450 VDC to ground
300 pin marked B.......321 VDC to ground
PD 1 pin.....121VDC

Mike,Let me know what you think of these measurments...George

--- On Thu, 8/27/09, w5rkl <w5rkl@yahoo.com> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: TS 830 Rectifier Problems
To: TS-520_820_530_830@yahoogroups.com
Date: Thursday, August 27, 2009, 1:30 PM

"I was going to again take out the entire RF board (a
tedious task) and check out why no voltage from the driver tube..."

In many cases this is not necessary. Voltages can be easily measured at the plug pins using a paper clip inserted into the plug. Voltages at the tube sockets can be measured with the Heater switch turned OFF and the tube removed. Care must be taken when working around the final amplifier since the HV is constantly present on the tube plate caps when power is applied to the 830. The only way to turn the HV OFF is to remove the HV connection on the Rectifier Unit and I don't recommend doing that. Just use standard safety precautions when working around HV, or any voltage circuit(s) and you should do fine.

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> --- On Thu, 8/27/09, w5rkl <w5rkl@...> wrote:
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> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_ 530_830] Re: TS 830 Rectifier Problems
> To: TS-520_820_530_ 830@yahoogroups. com
> Date: Thursday, August 27, 2009, 12:10 AM
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22219. Re: TS 830 Rectifier Problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-27 23:37:21 UTC
From: w5rkl
Topic: 22178 Message: 22219

George,

I'm not sure if you have the high resolution schematic for the TS-830 or not. If not, you can download it at the following link:

http://www.n6wk.com/kenwood/TS-830S-excellent%20schematic.pdf

This is an excellent schematic to use when troubleshooting the TS-830.

You will notice that a number of wires are grouped together. The key to tracing the wires are the "labels" such as "SG1", "SG2", and "STB" etc.

The primary windings of the power transformer are grouped into 2 groups of windings, each group containing it's own group specific "0" terminal and 2 non-zero terminals.

The power transformer's primary winding groups are as follows.
All voltages are AC:

0, 100, 120
0, 100, 120

The power transformer's secondary windings are groups are as follows.
All voltages are AC:

0, 12.6
0, 14
0, 100, 210, 300
0, 400, 800

Notice that each winding group has a "0" winding. Each "0" winding is specific to that group. Therefore, when measuring AC secondary windings, the AC meter's negative lead is connected to that group's "0" terminal and the AC meter's positive lead is connected to that groups non-zero lead.

Based on the voltage measurements you provides it appears the voltages are Ok. Voltage can vary depending on the primary AC voltage level applied to the transformer's primary winding(s).

Have you checked the 830 for RF output since you have changed D6 on the Rectifier Unit?

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, George Campbell <campbellgc@...> wrote:
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> Subject: [TS-520_820_530_830] Re: TS 830 Rectifier Problems
> To: TS-520_820_530_830@yahoogroups.com
> Date: Thursday, August 27, 2009, 1:30 PM
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> > Subject: [TS-520_820_ 530_830] Re: TS 830 Rectifier Problems
> > To: TS-520_820_530_ 830@yahoogroups. com
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22220. Re: [TS-520_820_530_830] Re: ts-520s modifications

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-28 01:23:46 UTC
From: w8iss
Topic: 22147 Message: 22220

That's what I was starting to be afraid of on 'modifications'. I was
afraid that this radio would be like what I am starting to run into with
a Yaesu FT-101ee that I had acquired at the same time. Noticed that the
Yaesu was receiving 11meters on portions of the 10 meter segments also.

That's why I put out the question about finding ANY and ALL modification
so that I could start working backwards to 'fix' them and put the radio
back into a more useful condition.

James W8ISS
=====
On Thu, 2009-08-27 at 16:48 +0000, w5rkl wrote:
> I don't know what the 520 modification lists contains. However, there is
> one common modification that is performed with the 520 and 820 series
> transceivers and that is to modify both transceivers to operate on 11
> meters in one or more of the 10 meter band switch settings.
>
> This modification requires replacing one or more of the standard 520 or
> 820 10 meter heterodyne oscillator crystals with crystals that allow the
> 520 and 820 to operate on 11 meters. The 520 heterodyne oscillator crystals
> are located on the RF UNIT but the 820 heterodyne oscillator crystals are
> located in the PLL UNIT.
>
> To determine if this modification(s) has been performed on either the 520
> or 820, simply visually inspect the 10 meter heterodyne oscillator crystal
> frequencies stamped on the crystals themselves and compare the frequencies
> with the standard 10 meter crystals listed on the 520 RF UNIT schematic or
> the 820's PLL UNIT schematic. If the crystals are not the standard crystals,
> replacements can be obtained from International Crystals in Oklahoma City,
> Oklahoma for $22 a piece plus shipping. Alignment of 10 meters will be
> required once the "CB Hacker" modification has been removed.
>
> 73
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "scott10k" <scottandalene@...> wrote:
> >
> > I concur with Greg. Most helpful is the full list of corrections to possible problems
from Kenwood.
> > 73s, Scott, N6CIC
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, Greg Anders <greg.anders@> wrote:
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> > > To: TS-520_820_530_830@yahoogroups.com
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> > > Is there a comprehensive page out there that I can look at that has a
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> > > to this nice radio? It does receive nicely but we are not sure about the
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> > > Thanks in advance,
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> > > James W8ISS
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> Yahoo! Groups Links
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22221. Re: ts-520s modifications

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-28 04:25:11 UTC
From: w5rkl
Topic: 22147 Message: 22221

James,

Whether your FT-101EE or your TS-520 has been modified to operate on 11 meters, converting them back to 10 meters is not difficult.

Most 11 meter modifications consist of simply changing one or more of the 10 meter heterodyne oscillator crystals then peaking the heterodyne oscillator.

The 11 meter modification does not modify or change the VFOs. There is no benefit in changing the VFOs.

Most 10 meter final amplifier PI networks will tune 27Mhz with little to no modifications.

Therefore, don't worry about the modification, simply convert it back to normal 10 meters by replacing the CB Hacker's heterodyne oscillator crystals to the normal 10 meter crystals then align the heterodyne oscillator using the service manual.

The TS-520 is a "double conversion" transceiver while the TS-820 is a "single conversion" transceiver. The conversion process is "basically" the same in both transceivers. The conversion process differs between the two transceivers in that the frequency in the 520 is converted "twice" where as the frequency in the 820 is converted "once".

73
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, w8iss <w8iss@...> wrote:
>
> That's what I was starting to be afraid of on 'modifications'. I was
> afraid that this radio would be like what I am starting to run into with
> a Yaesu FT-101ee that I had acquired at the same time. Noticed that the
> Yaesu was receiving 11meters on portions of the 10 meter segments also.
>
> That's why I put out the question about finding ANY and ALL modification
> so that I could start working backwards to 'fix' them and put the radio
> back into a more useful condition.
>
> James W8ISS
> =====
> On Thu, 2009-08-27 at 16:48 +0000, w5rkl wrote:
> > I don't know what the 520 modification lists contains. However, there is
> > one common modification that is performed with the 520 and 820 series
> > transceivers and that is to modify both transceivers to operate on 11
> > meters in one or more of the 10 meter band switch settings.
> >
> > This modification requires replacing one or more of the standard 520 or
> > 820 10 meter heterodyne oscillator crystals with crystals that allow the
> > 520 and 820 to operate on 11 meters. The 520 heterodyne oscillator crystals

> > are located on the RF UNIT but the 820 heterodyne oscillator crystals are
> > located in the PLL UNIT.
> >
> > To determine if this modification(s) has been performed on either the 520
> > or 820, simply visually inspect the 10 meter heterodyne oscillator crystal
> > frequencies stamped on the crystals themselves and compare the frequencies
> > with the standard 10 meter crystals listed on the 520 RF UNIT schematic or
> > the 820's PLL UNIT schematic. If the crystals are not the standard crystals,
> > replacements can be obtained from International Crystals in Oklahoma City,
> > Oklahoma for $22 a piece plus shipping. Alignment of 10 meters will be
> > required once the "CB Hacker" modification has been removed.
> >
> > 73
> > Mike W5RKL
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "scott10k" <scottandalene@> wrote:
> > >
> > > I concur with Greg. Most helpful is the full list of corrections to possible problems
from Kenwood.
> > > 73s, Scott, N6CIC
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, Greg Anders <greg.anders@> wrote:
> > > >
> > > > Hi There,
> > > >
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> > > >
> > > > FYI,
> > > >
> > > > Greg
> > > > KG6YV
> > > >
> > > > From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w8iss
> > > > Sent: Wednesday, August 26, 2009 9:19 AM
> > > > To: TS-520_820_530_830@yahoogroups.com
> > > > Subject: [TS-520_820_530_830] ts-520s modifications
> > > >
> > > >
> > > >
> > > > I am looking for any and all modifications that could have been done
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> > > > Thanks in advance,
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> > > > James W8ISS
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22222. Re: [TS-520_820_530_830] Re: ts-520s modifications

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-28 07:59:02 UTC
From: Michael
Topic: 22147 Message: 22222

Mike W5rkl
 The 520 I have the crystals seem to be soldered in underneath on the band selector switch. Would the band selector switch have to be dis-assembled to take the 11 meter crystal out. Or am I looking in the wrong area.

Thanks
ki0gv
Mike

--- On Thu, 8/27/09, w5rkl <w5rkl@yahoo.com> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: ts-520s modifications
To: TS-520_820_530_830@yahoogroups.com
Date: Thursday, August 27, 2009, 11:25 PM

James,

Whether your FT-101EE or your TS-520 has been modified to operate on 11 meters, converting them back to 10 meters is not difficult.

Most 11 meter modifications consist of simply changing one or more of the 10 meter heterodyne oscillator crystals then peaking the heterodyne oscillator.

The 11 meter modification does not modify or change the VFOs. There is no benefit in changing the VFOs.

Most 10 meter final amplifier PI networks will tune 27Mhz with little to no modifications.

Therefore, don't worry about the modification, simply convert it back to normal 10 meters by replacing the CB Hacker's heterodyne oscillator crystals to the normal 10 meter crystals then align the heterodyne oscillator using the service manual.

The TS-520 is a "double conversion" transceiver while the TS-820 is a "single conversion" transceiver. The conversion process is "basically" the same in both transceivers. The conversion process differs between the two transceivers in that the frequency in the 520 is converted "twice" where as the frequency in the 820 is converted "once".

73
Mike W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, w8iss <w8iss@...> wrote:
>
> That's what I was starting to be afraid of on 'modifications' . I was
> afraid that this radio would be like what I am starting to run into with
> a Yaesu FT-101ee that I had acquired at the same time. Noticed that the
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> > This modification requires replacing one or more of the standard 520 or
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> > located in the PLL UNIT.
> >
> > To determine if this modification(s) has been performed on either the 520
> > or 820, simply visually inspect the 10 meter heterodyne oscillator crystal
> > frequencies stamped on the crystals themselves and compare the frequencies
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> > Mike W5RKL
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> > > > Greg

> > > > KG6YV
> > > >
> > > > From: TS-520_820_530_ 830@yahoogroups. com [mailto:TS-520_820_530_
830@yahoogroups. com] On Behalf Of w8iss
> > > > Sent: Wednesday, August 26, 2009 9:19 AM
> > > > To: TS-520_820_530_ 830@yahoogroups. com
> > > > Subject: [TS-520_820_ 530_830] ts-520s modifications
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> > > > Thanks in advance,
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> > > > James W8ISS
> > > >
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> > > >
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22223. TS 830 problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-28 13:06:16 UTC
From: kg4kri
Topic: 22223 Message: 22223

Hello all,
I have noticed a problem with my 830- when transmitting on 80 meters,
the plate current and rf output fluctuate wildly. This occurs in cw and ssb mode, and even into a dummy load. Any help is appreciated!

Where can I find conductive paint?

On a different topic, I would like suggestions about the best mic gain and processor settings using the mc 50 mic with the 830.

Thanks and 73,
Daniel
KG4KRI

22224. Re: ts-520s modifications

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-28 15:06:00 UTC
From: w5rkl
Topic: 22147 Message: 22224

Mike (KI0GV),

The heterodyne oscillator crystals on all of the TS-520 series radios are soldered onto the Oscillator Coil Unit boards. The Oscillator Coil Unit board contains the oscillator band switch wafer that is also soldered to the board.

The Oscillator Coil Unit in the TS-520 has the label X40-0019-01.

The Oscillator Coil Unit in both the TS-520S and TS-520SE has the label X44-1160-00.

The Oscillator Coil Unit board should be removed from the 520. This is how I would do it. Others may have a different approach which is fine for them. I simply find it much easier to have the board on the bench in front of me. Whether you remove the Oscillator Coil Unit board or leave it in place is up to you.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Michael <ki0gv@...> wrote:
>
> Mike W5rkl
> The 520 I have the crystals seem to be soldered in underneath on the band selector switch. Would the band selector switch have to be dis-assembled to take the 11 meter crystal out. Or am I looking in the wrong area.
>
> Thanks
> ki0gv
> Mike
>
> --- On Thu, 8/27/09, w5rkl <w5rkl@...> wrote:
>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: ts-520s modifications
> To: TS-520_820_530_830@yahoogroups.com
> Date: Thursday, August 27, 2009, 11:25 PM
>
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>
> James,
>
> Whether your FT-101EE or your TS-520 has been modified to operate on 11 meters, converting them back to 10 meters is not difficult.

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> Most 11 meter modifications consist of simply changing one or more of the 10 meter heterodyne oscillator crystals then peaking the heterodyne oscillator.
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> The 11 meter modification does not modify or change the VFOs. There is no benefit in changing the VFOs.
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> Most 10 meter final amplifier PI networks will tune 27Mhz with little to no modifications.
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> Therefore, don't worry about the modification, simply convert it back to normal 10 meters by replacing the CB Hacker's heterodyne oscillator crystals to the normal 10 meter crystals then align the heterodyne oscillator using the service manual.
>
> The TS-520 is a "double conversion" transceiver while the TS-820 is a "single conversion" transceiver. The conversion process is "basically" the same in both transceivers. The conversion process differs between the two transceivers in that the frequency in the 520 is converted "twice" where as the frequency in the 820 is converted "once".
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> 73
> Mike W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com, w8iss <w8iss@> wrote:
> >
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> > > > > Greg
> > > > > KG6YV
> > > > >
> > > > > From: TS-520_820_530_ 830@yahoogroups. com [mailto:TS-520_820_530_
830@yahoogroups. com] On Behalf Of w8iss
> > > > > Sent: Wednesday, August 26, 2009 9:19 AM
> > > > > To: TS-520_820_530_ 830@yahoogroups. com
> > > > > Subject: [TS-520_820_ 530_830] ts-520s modifications
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> > > > >
> > > > > James W8ISS
> > > > >
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22225. Re: TS 830 problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-28 15:26:12 UTC
From: w5rkl
Topic: 22223 Message: 22225

Daniel,

Based on the information you have provided, the variations in RF output on 80 meters appears to be a dirty band switch wafer. Clean all of the band switch wafers and that includes the switch wafers inside the final amplifier cage, with contact cleaner. Use canned air to remove excess contact cleaner. Canned air can be found at Walmart in their television/computer department.

Read and adhere to the contact cleaner cautions/warnings written on the can since contact cleaner is very flammable and it only takes a small spark to ignite it.

As for the MIC gain and Processor settings for an MC-50 microphone, I can only recommend following the TS-830 operator manual's instructions. Everyone's voice is different and a setting that is right for one person may not be right for you.

Unfortunately, I have no idea where you can purchase conductive paint. What problem do you have that makes you believe you need to use conductive paint? If the problem is a broken/burnt PC board foil run, a wire soldered across the break can fix this type of problem.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "kg4kri" <kg4kri@...> wrote:
>
> Hello all,
> I have noticed a problem with my 830- when transmitting on 80 meters,
> the plate current and rf output fluctuate wildly. This occurs in cw and ssb mode, and even into a dummy load. Any help is appreciated!
>
> Where can I find conductive paint?
>
> On a different topic, I would like suggestions about the best mic gain and processor settings using the mc 50 mic with the 830.
>
> Thanks and 73,
> Daniel
> KG4KRI
>

22226. RE: [TS-520_820_530_830] Re: TS 830 problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-28 15:38:48 UTC
From: Greg Anders
Topic: 22223 Message: 22226

I had an 830S with an MC50 mic for several years.

The processor on the 830S is one of the best designs ever. It provides an increase in punch with reasonably low distortion.

Set the mic gain without the processor keeping the ALC within range.
Set the processor to about 10 o'clock.
Turn on the processor and readjust the mic gain if necessary to stay within the ALC range.

It will sound punchy but very nice.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
Sent: Friday, August 28, 2009 8:26 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS 830 problem

Daniel,

Based on the information you have provided, the variations in RF output on 80 meters appears to be a dirty band switch wafer. Clean all of the band switch wafers and that includes the switch wafers inside the final amplifier cage, with contact cleaner. Use canned air to remove excess contact cleaner. Canned air can be found at Walmart in their television/computer department.

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Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "kg4kri" <kg4kri@...> wrote:
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> Hello all,
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> Where can I find conductive paint?
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> Thanks and 73,
> Daniel
> KG4KRI
>

[Non-text portions of this message have been removed]

22227. How to drive a TS 830 with a SM20

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-28 15:53:32 UTC
From: m3iqq
Topic: 22227 Message: 22227

Hi,
I was wondering if anyone could help me. I have a ts830 line up (well everything except the VFO) along with the SM20 base microphone. The problem is when using the base Mic I can't drive the radio enough unless I raise my voice? I know it's not an issue with the radio as the fist mic gives wonderful audio as does the base microphone if I bring it up to my mouth.
I have tried different amplified microphones but they seem to over drive the radio and cause major distortion to the audio.

Can anyone offer any advice on the use of the SM20 or how to amplify the audio?

Many thanks
Andy
2e0bay

22228. Re: [TS-520_820_530_830] Re: ts-520s modifications

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-28 17:17:34 UTC
From: martin
Topic: 22147 Message: 22228

Hi Mike. Years ago I had a TS-520 that had been converted to operate on 11M. Not only had the 10M crystals been changed, but CW mode had been modified for AM voice operation. Of course I changed the crystals back to the correct 10M ones, but I was never able figure out how to undo the AM mod. I think I recently saw a mod for the TS-520 to add AM, but I am not sure where. On the TS-520 that I had, CW still worked fine as long as you disconnected the mic.

It is a shame that CB hackers have modified these fine Kenwood Amateur Radios. I can understand some of the CBers frustration with the lack of quality and and the poor receiver performance (despite extremely high prices for what you get) of pretty much all of the CB transceivers. However, I cannot condone in any way the modifying of Amateur Radio equipment for use on 11M frequencies.

As the class D CB band was only meant for local (short range) communications, I think that the FCC made a big mistake in 1976. Instead of expanding the 11M frequencies from 23 to 40, they should have moved the class D service to a high VHF frequency (somewhere around 250Mhz or higher). A grace period of 1-2 years would have allowed time for the CBers to switch. After the grace period, there should have been extremely rigorous enforcement against any CBer still using the 11M frequencies.

Instead they took the easy way out.

TTYL

w5rkl wrote:
> James,
>
> Therefore, don't worry about the modification, simply convert it
> back to normal 10 meters by replacing the CB Hacker's heterodyne
> oscillator crystals to the normal 10 meter crystals then align the
> heterodyne oscillator using the service manual.
>
> 73 Mike W5RKL
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html

"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

22229. Re: How to drive a TS 830 with a SM20

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-28 19:05:52 UTC
From: w5rkl
Topic: 22227 Message: 22229

Andy,

The Icom SM-20 microphone has a built in amplifier that requires a DC power source, 8VDC, that is normally provided by the Icom transceiver at the microphone socket, pin 2. The TS-830 microphone socket does not provide that power source at its microphone socket.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "m3iqq" <sireth@...> wrote:
>
> Hi,
> I was wondering if anyone could help me. I have a ts830 line up (well everything except the VFO) along with the SM20 base microphone. The problem is when using the base Mic I can't drive the radio enough unless I raise my voice? I know it's not an issue with the radio as the fist mic gives wonderful audio as does the base microphone if I bring it up to my mouth.
> I have tried different amplified microphones but they seem to over drive the radio and cause major distortion to the audio.
>
> Can anyone offer any advice on the use of the SM20 or how to amplify the audio?
>
> Many thanks
> Andy
> 2e0bay
>

22230. Re: [TS-520_820_530_830] TS 830 problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-28 19:35:27 UTC
From: John Davidson
Topic: 22223 Message: 22230

There is an extra fixed capacitor switched across the plate tuning cap on 80M. It is near the bnd switch. Mine fried and it only affected 80M. new cap solved the trouble.

--- On Fri, 8/28/09, kg4kri <kg4kri@...> wrote:

From: kg4kri <kg4kri@...>
Subject: [TS-520_820_530_830] TS 830 problem
To: TS-520_820_530_830@yahoogroups.com
Date: Friday, August 28, 2009, 9:06 AM

Hello all,
I have noticed a problem with my 830- when transmitting on 80 meters,
the plate current and rf output fluctuate wildly. This occurs in cw and ssb mode, and even into a dummy load. Any help is appreciated!

Where can I find conductive paint?

On a different topic, I would like suggestions about the best mic gain and processor settings using the mc 50 mic with the 830.

Thanks and 73,
Daniel
KG4KRI

[Non-text portions of this message have been removed]

22231. RE: [TS-520_820_530_830] Re: How to drive a TS 830 with a SM20

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-28 20:43:52 UTC
From: Greg Anders
Topic: 22227 Message: 22231

And furthermore, the Sm20 is low impedance and the 830 mic input is high impedance.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
Sent: Friday, August 28, 2009 12:06 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: How to drive a TS 830 with a SM20

Andy,

The Icom SM-20 microphone has a built in amplifier that requires a DC power source, 8VDC, that is normally provided by the Icom transceiver at the microphone socket, pin 2. The TS-830 microphone socket does not provide that power source at its microphone socket.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "m3iqq" <sireth@...> wrote:
>
> Hi,
> I was wondering if anyone could help me. I have a ts830 line up (well everything except the VFO) along with the SM20 base microphone. The problem is when using the base Mic I can't drive the radio enough unless I raise my voice? I know it's not an issue with the radio as the fist mic gives wonderful audio as does the base microphone if I bring it up to my mouth.
> I have tried different amplified microphones but they seem to over drive the radio and cause major distortion to the audio.
>
> Can anyone offer any advice on the use of the SM20 or how to amplify the audio?
>
> Many thanks
> Andy
> 2e0bay
>

[Non-text portions of this message have been removed]

22232. Re: How to drive a TS 830 with a SM20

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-29 17:25:59 UTC
From: w5rkl
Topic: 22227 Message: 22232

The TS-830 has a microphone audio impedance range between 500 ohms and 50,000 ohms. The Icom SM-20 microphone has an impedance of 600 ohms which is within the audio impedance range of the TS-830.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Greg Anders <greg.anders@...> wrote:
>
> And furthermore, the Sm20 is low impedance and the 830 mic input is high impedance.
>
> Greg
> KG6YV
>
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
> Sent: Friday, August 28, 2009 12:06 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: How to drive a TS 830 with a SM20
>
>
>
> Andy,
>
> The Icom SM-20 microphone has a built in amplifier that requires a DC power source, 8VDC, that is normally provided by the Icom transceiver at the microphone socket, pin 2. The TS-830 microphone socket does not provide that power source at its microphone socket.
>
> 73's
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "m3iqq" <sireth@> wrote:
> >
> > Hi,
> > I was wondering if anyone could help me. I have a ts830 line up (well everything except the VFO) along with the SM20 base microphone. The problem is when using the base Mic I can't drive the radio enough unless I raise my voice? I know it's not an issue with the radio as the fist mic gives wonderful audio as does the base microphone if I bring it up to my mouth.
> > I have tried different amplified microphones but they seem to over drive the radio and cause major distortion to the audio.
> >
> > Can anyone offer any advice on the use of the SM20 or how to amplify the audio?
> >

> > Many thanks
> > Andy
> > 2e0bay
> >
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> [Non-text portions of this message have been removed]
>

22233. Fw: [TS-520_820_530_830] Re: Help NO TX or RX on 15 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-29 21:07:37 UTC
From: Stephen Judd
Topic: 22233 Message: 22233

Could someone tell the voltage value on the ceramic cap c4 c5 not able to locate that discription in the manual thanks

Stephen/KB7BGS

--- On Mon, 8/24/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: Help NO TX or RX on 15 meters
To: TS-520_820_530_830@yahoogroups.com
Date: Monday, August 24, 2009, 7:53 PM

Check fixed cap C4 across L4 and C5 in series with C4/L4 to ground.

Just a thought.

73
Mike W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, Stephen Judd <swanradios@ ...> wrote:
>
> I have just place a VTVM in line off of test point 3 to make the alignment per repair manual for the oscillator coil on 15 meters and everything works perfect tuned great as soon as I remove the meter output drops to 15 watts
>
> Stephen/KB7BGS
>
> --- On Mon, 8/24/09, Greg Anders <greg.anders@ ...> wrote:
>
>
> From: Greg Anders <greg.anders@ ...>
> Subject: RE: [TS-520_820_ 530_830] Help NO TX or RX on 15 meters
> To: "TS-520_820_530_ 830@yahoogroups. com" <TS-520_820_530_ 830@yahoogroups. com>
> Date: Monday, August 24, 2009, 10:35 AM
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>
> It is also possible that the heterodyne oscillator coil for the 15M band is out of alignement. If someone tweeked it past the "peak" point enough it would just stop oscillating and appear to be a dead crystal....
>
> Greg
>
> From: TS-520_820_530_ 830@yahoogroups. com [mailto:TS-520_ 820_530_ 830@yahoogroups.

com] On Behalf Of Daniel TOESCA
> Sent: Monday, August 24, 2009 9:31 AM
> To: TS-520_820_530_ 830@yahoogroups. com
> Subject: Re: [TS-520_820_ 530_830] Help NO TX or RX on 15 meters
>
> Stephen, Maybe the Xtal is dead - it happens often with Kenwood - Trio
> vintage gear. To be sure, find a place to check if there is RF output from
> the Xtak oscillator and change bands. If nothing on 15, you're in some
> trouble. If you have a scope, even a low frequency one, it's ok, you don't
> want to measure, just to check. Without a scope, build a simple RF sensor
> on the PC board with a germanium diode, a 2-10 pF coupling cap, a 10 k
> resistor and a 10 nF decoupling cap, plus your VOM, doesn't have to be
> digital, that's OK. Refer to the user's or service manual to find a
> suitable check point. Good luck & 73's - Daniel, ON5PY
>
> 2009/8/23, Stephen Judd <swanradios@ yahoo. com<mailto:swanradi os% 40yahoo.com> >:
> >
> >
> >
> > Hello All
> > I have a ts-520 with absolutly no tx or rx on 15 meters all other bands are
> > great very nice receive and transmit just nothing on 15 the crystal is there
> > and cleaned all wafer switches and relays any help will be great thanks 73
> > Stephen/KB7BGS
> >
> > _____ _____ _____ _____ _____ __
> > Do You Yahoo!?
> > Tired of spam? Yahoo! Mail has the best spam protection around
> > http://mail. yahoo.com
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> Tired of spam? Yahoo! Mail has the best spam protection around
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22234. TS-520 Carry Handle

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-29 23:27:51 UTC
From: Allan Cridland
Topic: 22234 Message: 22234

Hi,

I am chasing a carry handle (complete) to suit a TS-520.
Would anyone have spare one they could part with?

73's
Allan VK4JAC
afc@...

[Non-text portions of this message have been removed]

22235. Fw: [TS-520_820_530_830] Re: Help NO TX or RX on 15 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-30 01:39:33 UTC
From: w5rkl
Topic: 22233 Message: 22235

Stephen,

A 100VDC or less will do.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Stephen Judd <swanradios@...> wrote:
>
> Could someone tell the voltage value on the ceramic cap c4 c5 not able to locate that discription in the manual thanks
>
> Stephen/KB7BGS
>
> --- On Mon, 8/24/09, w5rkl <w5rkl@...> wrote:
>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: Help NO TX or RX on 15 meters
> To: TS-520_820_530_830@yahoogroups.com
> Date: Monday, August 24, 2009, 7:53 PM
>
>
>
>
>
>
>
> Check fixed cap C4 across L4 and C5 in series with C4/L4 to ground.
>
> Just a thought.
>
> 73
> Mike W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Stephen Judd <swanradios@ ...> wrote:
> >
> > I have just place a VTVM in line off of test point 3 to make the alignment per repair manual for the oscillator coil on 15 meters and everything works perfect tuned great as soon as I remove the meter output drops to 15 watts
> >
> > Stephen/KB7BGS
> >
> > --- On Mon, 8/24/09, Greg Anders <greg.anders@ ...> wrote:
> >
> >
> > From: Greg Anders <greg.anders@ ...>

> > Subject: RE: [TS-520_820_ 530_830] Help NO TX or RX on 15 meters
> > To: "TS-520_820_530_ 830@yahoogroups. com" <TS-520_820_530_ 830@yahoogroups. com>
> > Date: Monday, August 24, 2009, 10:35 AM
> >
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> >
> >
> >
> > It is also possible that the heterodyne oscillator coil for the 15M band is out of alignement. If someone tweeked it past the "peak" point enough it would just stop oscillating and appear to be a dead crystal....
> >
> > Greg
> >
> > From: TS-520_820_530_ 830@yahoogroups. com [mailto:TS-520_ 820_530_ 830@yahoogroups. com] On Behalf Of Daniel TOESCA
> > Sent: Monday, August 24, 2009 9:31 AM
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Subject: Re: [TS-520_820_ 530_830] Help NO TX or RX on 15 meters
> >
> > Stephen, Maybe the Xtal is dead - it happens often with Kenwood - Trio
> > vintage gear. To be sure, find a place to check if there is RF output from
> > the Xtak oscillator and change bands. If nothing on 15, you're in some
> > trouble. If you have a scope, even a low frequency one, it's ok, you don't
> > want to measure, just to check. Without a scope, build a simple RF sensor
> > on the PC board with a germanium diode, a 2-10 pF coupling cap, a 10 k
> > resistor and a 10 nF decoupling cap, plus your VOM, doesn't have to be
> > digital, that's OK. Refer to the user's or service manual to find a
> > suitable check point. Good luck & 73's - Daniel, ON5PY
> >
> > 2009/8/23, Stephen Judd <swanradios@ yahoo. com<mailto:swanradi os% 40yahoo.com> >:
> > >
> > >
> > >
> > > Hello All
> > > I have a ts-520 with absolutly no tx or rx on 15 meters all other bands are
> > > great very nice receive and transmit just nothing on 15 the crystal is there
> > > and cleaned all wafer switches and relays any help will be great thanks 73
> > > Stephen/KB7BGS
> > >
> > > _____ _____ _____ _____ _____ __
> > > Do You Yahoo!?
> > > Tired of spam? Yahoo! Mail has the best spam protection around
> > > http://mail. yahoo.com
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22236. Re: [TS-520_820_530_830] TS-520 Carry Handle

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-30 03:00:04 UTC
From: Bob Singer
Topic: 22234 Message: 22236

I'm taking my old one to our local boot maker and having him make one
for me. Bob

Allan Cridland wrote:
>
>
> Hi,
>
> I am chasing a carry handle (complete) to suit a TS-520.
> Would anyone have spare one they could part with?
>
> 73's
> Allan VK4JAC
> afc@... <mailto:afc%40aapt.net.au>
>
> [Non-text portions of this message have been removed]
>
>

22237. Re: Fw: [TS-520_820_530_830] Re: Help NO TX or RX on 15 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-30 12:21:55 UTC
From: Stephen Judd
Topic: 22233 Message: 22237

Thank You

Stephen/KB7BGS

--- On Sat, 8/29/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: Fw: [TS-520_820_530_830] Re: Help NO TX or RX on 15 meters
To: TS-520_820_530_830@yahoogroups.com
Date: Saturday, August 29, 2009, 7:39 PM

Stephen,

A 100VDC or less will do.

73's
Mike W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, Stephen Judd <swanradios@ ...> wrote:
>
> Could someone tell the voltage value on the ceramic cap c4 c5 not able to locate that discription in the manual thanks
>
> Stephen/KB7BGS
>
> --- On Mon, 8/24/09, w5rkl <w5rkl@...> wrote:
>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_ 530_830] Re: Help NO TX or RX on 15 meters
> To: TS-520_820_530_ 830@yahoogroups. com
> Date: Monday, August 24, 2009, 7:53 PM
>
>
>
>
>
>
>
> Check fixed cap C4 across L4 and C5 in series with C4/L4 to ground.
>
> Just a thought.
>
> 73
> Mike W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Stephen Judd <swanradios@ ...> wrote:
> >

> > I have just place a VTVM in line off of test point 3 to make the alignment per repair manual for the oscillator coil on 15 meters and everything works perfect tuned great as soon as I remove the meter output drops to 15 watts
> >
> > Stephen/KB7BGS
> >
> > --- On Mon, 8/24/09, Greg Anders <greg.anders@ ...> wrote:
> >
> >
> > From: Greg Anders <greg.anders@ ...>
> > Subject: RE: [TS-520_820_ 530_830] Help NO TX or RX on 15 meters
> > To: "TS-520_820_ 530_ 830@yahoogroups. com" <TS-520_820_ 530_ 830@yahoogroups. com>
> > Date: Monday, August 24, 2009, 10:35 AM
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> >
> > It is also possible that the heterodyne oscillator coil for the 15M band is out of alignement. If someone tweeked it past the "peak" point enough it would just stop oscillating and appear to be a dead crystal....
> >
> > Greg
> >
> > From: TS-520_820_530_ 830@yahoogroups. com [mailto:TS-520_ 820_530_ 830@yahoogroups. com] On Behalf Of Daniel TOESCA
> > Sent: Monday, August 24, 2009 9:31 AM
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Subject: Re: [TS-520_820_ 530_830] Help NO TX or RX on 15 meters
> >
> > Stephen, Maybe the Xtal is dead - it happens often with Kenwood - Trio
> > vintage gear. To be sure, find a place to check if there is RF output from
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> > trouble. If you have a scope, even a low frequency one, it's ok, you don't
> > want to measure, just to check. Without a scope, build a simple RF sensor
> > on the PC board with a germanium diode, a 2-10 pF coupling cap, a 10 k
> > resistor and a 10 nF decoupling cap, plus your VOM, doesn't have to be
> > digital, that's OK. Refer to the user's or service manual to find a
> > suitable check point. Good luck & 73's - Daniel, ON5PY
> >
> > 2009/8/23, Stephen Judd <swanradios@ yahoo. com<mailto:swanradi os% 40yahoo.com> >:
> > >
> > >
> > >
> > > Hello All
> > > I have a ts-520 with absolutly no tx or rx on 15 meters all other bands are
> > > great very nice receive and transmit just nothing on 15 the crystal is there
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> > > Stephen/KB7BGS

> > >
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> > > Do You Yahoo!?
> > > Tired of spam? Yahoo! Mail has the best spam protection around
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22238. Re: TS-520 Carry Handle

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-30 17:36:43 UTC
From: w5rkl
Topic: 22234 Message: 22238

I had a similar problem with the carrying handle on my 820, the thread broke and became unraveled exposing the metal insert and padding. I used a heavy duty sewing needle and heavy duty white thread to resew the handle. I then followed with black shoe polish. It now looks great and the heavy white thread shows nicely.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Bob Singer <aztrooper@...> wrote:
>
> I'm taking my old one to our local boot maker and having him make one
> for me. Bob
>
> Allan Cridland wrote:
> >
> >
> > Hi,
> >
> > I am chasing a carry handle (complete) to suit a TS-520.
> > Would anyone have spare one they could part with?
> >
> > 73's
> > Allan VK4JAC
> > afc@... <mailto:afc%40aapt.net.au>
> >
> > [Non-text portions of this message have been removed]
> >
> >
>

22239. Re: [TS-520_820_530_830] Re: TS-520 Carry Handle

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-30 19:50:32 UTC
From: Bob Singer
Topic: 22234 Message: 22239

Mine is bad enough that the leather is all chewed up (got it that way
wrapped in black electrical tape) so I'm going to have it remade. They
I'll put it up for sale.

Bob
kd0eez

w5rkl wrote:
>
>
> I had a similar problem with the carrying handle on my 820, the thread
> broke and became unraveled exposing the metal insert and padding. I
> used a heavy duty sewing needle and heavy duty white thread to resew
> the handle. I then followed with black shoe polish. It now looks great
> and the heavy white thread shows nicely.
>
> 73's
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, Bob Singer
> <aztrooper@...> wrote:
> >
> > I'm taking my old one to our local boot maker and having him make one
> > for me. Bob
> >
> > Allan Cridland wrote:
> > >
> > >
> > > Hi,
> > >
> > > I am chasing a carry handle (complete) to suit a TS-520.
> > > Would anyone have spare one they could part with?
> > >
> > > 73's
> > > Allan VK4JAC
> > > afc@... <mailto:afc%40aapt.net.au>
> > >
> > > [Non-text portions of this message have been removed]
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>

22240. Re: How to drive a TS 830 with a SM20

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-30 20:06:25 UTC
From: m3iqq
Topic: 22227 Message: 22240

Hi,
I'm really sorry but i got the microphone wrong!

I have a MC 50 for the trio, the SM20 is on the 2m radio.
I've no problem with the audio when using the SM50, but i have to talk with my mouth quite close to it.

I would like to be able to key the mic then on the desk and talk normally, not have to move close up to it.

Maybe this is normal on the 830 but I dont have this problem when using a FM radio?

Sorry for the confusion

Andy
2e0bay

PS,
Has anyone got the VFO for sale?

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> The TS-830 has a microphone audio impedance range between 500 ohms and 50,000 ohms. The Icom SM-20 microphone has an impedance of 600 ohms which is within the audio impedance range of the TS-830.
>
> 73's
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, Greg Anders <greg.anders@> wrote:
> >
> > And furthermore, the Sm20 is low impedance and the 830 mic input is high impedance.
> >
> > Greg
> > KG6YV
> >
> > From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
> > Sent: Friday, August 28, 2009 12:06 PM
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: [TS-520_820_530_830] Re: How to drive a TS 830 with a SM20
> >
> >
> >
> > Andy,
> >

> > The Icom SM-20 microphone has a built in amplifier that requires a DC power source, 8VDC, that is normally provided by the Icom transceiver at the microphone socket, pin 2. The TS-830 microphone socket does not provide that power source at its microphone socket.
> >
> > 73's
> > Mike W5RKL
> >
> > --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "m3iqq" <sireth@> wrote:
> > >
> > > Hi,
> > > I was wondering if anyone could help me. I have a ts830 line up (well everything except the VFO) along with the SM20 base microphone. The problem is when using the base Mic I can't drive the radio enough unless I raise my voice? I know it's not an issue with the radio as the fist mic gives wonderful audio as does the base microphone if I bring it up to my mouth.
> > > I have tried different amplified microphones but they seem to over drive the radio and cause major distortion to the audio.
> > >
> > > Can anyone offer any advice on the use of the SM20 or how to amplify the audio?
> > >
> > > Many thanks
> > > Andy
> > > 2e0bay
> > >
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> >
> >
> > [Non-text portions of this message have been removed]
> >
>

22241. Re: [TS-520_820_530_830] Re: How to drive a TS 830 with a SM20

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-30 21:59:04 UTC
From: martin
Topic: 22227 Message: 22241

Hi Andy. When using my MC-50 with my TS-530S (or my TS-430S, or my TS-130SE) I talk within about 4-6 inches of the mic. The connector on the back of the mic itself can be inserted 2 ways, and this is how the impedance of the mic is selected. You might try the other setting.
Are you following the instructions in the manual for setting the mic gain?

TTYL

m3iqq wrote:
> Hi,
> I'm really sorry but i got the microphone wrong!
>
> I have a MC 50 for the trio, the SM20 is on the 2m radio.
> I've no problem with the audio when using the SM50, but i have to talk with my mouth quite close to it.
>
> I would like to be able to key the mic then on the desk and talk normally, not have to move close up to it.
>
> Maybe this is normal on the 830 but I dont have this problem when using a FM radio?
>
> Sorry for the confusion
>
>
> Andy
> 2e0bay
>
> PS,
> Has anyone got the VFO for sale?
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>> The TS-830 has a microphone audio impedance range between 500 ohms and 50,000 ohms. The Icom SM-20 microphone has an impedance of 600 ohms which is within the audio impedance range of the TS-830.
>>
>> 73's
>> Mike W5RKL
>>
>>
>> --- In TS-520_820_530_830@yahoogroups.com, Greg Anders <greg.anders@> wrote:
>>> And furthermore, the Sm20 is low impedance and the 830 mic input is high impedance.
>>>

>>> Greg
>>> KG6YV
>>>
>>> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com]
On Behalf Of w5rkl
>>> Sent: Friday, August 28, 2009 12:06 PM
>>> To: TS-520_820_530_830@yahoogroups.com
>>> Subject: [TS-520_820_530_830] Re: How to drive a TS 830 with a SM20
>>>
>>>
>>>
>>> Andy,
>>>
>>> The Icom SM-20 microphone has a built in amplifier that requires a DC power source,
8VDC, that is normally provided by the Icom transceiver at the microphone socket, pin 2.
The TS-830 microphone socket does not provide that power source at its microphone socket.
>>>
>>> 73's
>>> Mike W5RKL
>>>
>>> --- In
TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "m3iqq"
<sireth@> wrote:
>>>> Hi,
>>>> I was wondering if anyone could help me. I have a ts830 line up (well everything
except the VFO) along with the SM20 base microphone. The problem is when using the base Mic
I can't drive the radio enough unless I raise my voice? I know it's not an issue with the
radio as the fist mic gives wonderful audio as does the base microphone if I bring it up to
my mouth.
>>>> I have tried different amplified microphones but they seem to over drive the radio and
cause major distortion to the audio.
>>>>
>>>> Can anyone offer any advice on the use of the SM20 or how to amplify the audio?
>>>>
>>>> Many thanks
>>>> Andy
>>>> 2e0bay
>>>>
>>>
>>>
>>> [Non-text portions of this message have been removed]
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>
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

22242. Re: [TS-520_820_530_830] Re: TS-520 Carry Handle

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-30 21:43:38 UTC
From: STEVE SCOGGINS
Topic: 22234 Message: 22242

You can make a new handle from a narrow men's dress belt.
Reuse the metal insert from the old handle.

73 Steve N9HE

--- On Sun, 8/30/09, Bob Singer <aztrooper@...> wrote:

From: Bob Singer <aztrooper@sbcglobal.net>
Subject: Re: [TS-520_820_530_830] Re: TS-520 Carry Handle
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, August 30, 2009, 12:50 PM

Mine is bad enough that the leather is all chewed up (got it that way
wrapped in black electrical tape) so I'm going to have it remade. They
I'll put it up for sale.

Bob
kd0eez

w5rkl wrote:
>
>
> I had a similar problem with the carrying handle on my 820, the thread
> broke and became unraveled exposing the metal insert and padding. I
> used a heavy duty sewing needle and heavy duty white thread to resew
> the handle. I then followed with black shoe polish. It now looks great
> and the heavy white thread shows nicely.
>
> 73's
> Mike W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com
> <mailto:TS-520_ 820_530_830% 40yahoogroups. com>, Bob Singer
> <aztrooper@. ..> wrote:
> >
> > I'm taking my old one to our local boot maker and having him make one
> > for me. Bob
> >
> > Allan Cridland wrote:
> > >
> > >
> > > Hi,
> > >
> > > I am chasing a carry handle (complete) to suit a TS-520.
> > > Would anyone have spare one they could part with?
> > >

> > > 73's
> > > Allan VK4JAC
> > > afc@... <mailto:afc% 40aapt.net. au>
> > >
> > > [Non-text portions of this message have been removed]
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> >
>
>

[Non-text portions of this message have been removed]

22243. Re: TS-520 Carry Handle

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-30 21:58:02 UTC
From: ke7rr
Topic: 22234 Message: 22243

You can make a leather carry handle from a section of a men's narrow leather dress belt. Slip the metal strip inside the new handle cut from the leather belt.

73 Steve N9HE

22244. Re: [TS-520_820_530_830] Re: TS-520 Carry Handle

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-30 23:00:54 UTC
From: Bob Singer
Topic: 22234 Message: 22244

Never thought of that, thanks.

Bob
KD0EEZ

ke7rr wrote:
>
>
> You can make a leather carry handle from a section of a men's narrow
> leather dress belt. Slip the metal strip inside the new handle cut
> from the leather belt.
>
> 73 Steve N9HE
>
>

22245. Re: How to drive a TS 830 with a SM20

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-31 04:11:39 UTC
From: w5rkl
Topic: 22227 Message: 22245

The MC-50 is a dual impedance microphone, 600 ohms or 50K ohms. Since the 830 has an impedance range from 500 ohms to 50K ohms, the MC-50 should work fine regardless how the microphone cable is connected.

I recommend checking the Processor push button on the upper left corner of the 830's front panel, directly above the Processor control. I also recommend reviewing page 19 of the 830's operator's manual for details on adjusting the Processor and MIC controls.

You might also take a few moments and review the 830's high resolution schematic, available free at the following link. This will help a lot when troubleshooting problems with the 830.

http://www.n6wk.com/kenwood/TS-830S-excellent%20schematic.pdf

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@...> wrote:
>
> Hi Andy. When using my MC-50 with my TS-530S (or my TS-430S, or my
> TS-130SE) I talk within about 4-6 inches of the mic. The connector on
> the back of the mic itself can be inserted 2 ways, and this is how the
> impedance of the mic is selected. You might try the other setting.
> Are you following the instructions in the manual for setting the mic gain?
>
> TTYL
>
> m3iqq wrote:
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> > I'm really sorry but i got the microphone wrong!
> >
> > I have a MC 50 for the trio, the SM20 is on the 2m radio.
> > I've no problem with the audio when using the SM50, but i have to talk with my mouth quite close to it.
> >
> > I would like to be able to key the mic then on the desk and talk normally, not have to move close up to it.
> >
> > Maybe this is normal on the 830 but I dont have this problem when using a FM radio?
> >
> > Sorry for the confusion
> >
> >
> > Andy
> > 2e0bay
> >

> > PS,
> > Has anyone got the VFO for sale?
> >
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >> The TS-830 has a microphone audio impedance range between 500 ohms and 50,000 ohms. The Icom SM-20 microphone has an impedance of 600 ohms which is within the audio impedance range of the TS-830.
> >>
> >> 73's
> >> Mike W5RKL
> >>
> >>
> >> --- In TS-520_820_530_830@yahoogroups.com, Greg Anders <greg.anders@> wrote:
> >>> And furthermore, the Sm20 is low impedance and the 830 mic input is high impedance.
> >>>
> >>> Greg
> >>> KG6YV
> >>>
> >>> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
> >>> Sent: Friday, August 28, 2009 12:06 PM
> >>> To: TS-520_820_530_830@yahoogroups.com
> >>> Subject: [TS-520_820_530_830] Re: How to drive a TS 830 with a SM20
> >>>
> >>>
> >>>
> >>> Andy,
> >>>
> >>> The Icom SM-20 microphone has a built in amplifier that requires a DC power source, 8VDC, that is normally provided by the Icom transceiver at the microphone socket, pin 2. The TS-830 microphone socket does not provide that power source at its microphone socket.
> >>>
> >>> 73's
> >>> Mike W5RKL
> >>>
> >>> --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "m3iqq" <sireth@> wrote:
> >>>> Hi,
> >>>> I was wondering if anyone could help me. I have a ts830 line up (well everything except the VFO) along with the SM20 base microphone. The problem is when using the base Mic I can't drive the radio enough unless I raise my voice? I know it's not an issue with the radio as the fist mic gives wonderful audio as does the base microphone if I bring it up to my mouth.
> >>>> I have tried different amplified microphones but they seem to over drive the radio and cause major distortion to the audio.
> >>>>

> >>>> Can anyone offer any advice on the use of the SM20 or how to amplify the audio?
> >>>>
> >>>> Many thanks
> >>>> Andy
> >>>> 2e0bay
> >>>>
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> >>>
> >>> [Non-text portions of this message have been removed]
> >>>
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> >
>
> --
> CUL8R
>
> KBOHAE kb0hae@... Martin Campbell
>
> A Satisfied Sidux Linux user! To get Sidux go to:
> www.sidux.com/index.html
> "Protect your digital freedom and privacy, eliminate DRM, learn more
> at http://www.defectivebydesign.org/what_is_drm"
>

22246. Re: TS 830 Rectifier Problems TO MIKE W5RKL

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-31 21:57:35 UTC
From: campbellgc@bellsouth.net
Topic: 22178 Message: 22246

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> George,
>
> I'm not sure if you have the high resolution schematic for the TS-830 or not. If not, you can download it at the following link:
>
> http://www.n6wk.com/kenwood/TS-830S-excellent%20schematic.pdf
>
> This is an excellent schematic to use when troubleshooting the TS-830.
>
> You will notice that a number of wires are grouped together. The key to tracing the wires are the "labels" such as "SG1", "SG2", and "STB" etc.
>
> The primary windings of the power transformer are grouped into 2 groups of windings, each group containing it's own group specific "0" terminal and 2 non-zero terminals.
>
> The power transformer's primary winding groups are as follows.
> All voltages are AC:
>
> 0, 100, 120
> 0, 100, 120
>
>
> The power transformer's secondary windings are groups are as follows.
> All voltages are AC:
>
> 0, 12.6
> 0, 14
> 0, 100, 210, 300
> 0, 400, 800
>
> Notice that each winding group has a "0" winding. Each "0" winding is specific to that group. Therefore, when measuring AC secondary windings, the AC meter's negative lead is connected to that group's "0" terminal and the AC meter's positive lead is connected to that groups non-zero lead.
>
> Based on the voltage measurements you provides it appears the voltages are Ok. Voltage can vary depending on the primary AC voltage level applied to the transformer's primary winding(s).
>
> Have you checked the 830 for RF output since you have changed D6 on the Rectifier Unit?
>
> 73
> Mike W5RKL

>
>
> --- In TS-520_820_530_830@yahoogroups.com, George Campbell <campbellgc@> wrote:
> >
> > Mike... The following are the measurments that I just completed on the rectifier boarb...tomorrow I will turn the TS-830 over and take measurments at the socket points of the 12BY7 and let you know...all the following are measurments are from the rectifier pins to ground...
> >
> > AC pin marked 100..... 90 VAC to ground
> > AC pin marked 210 .....191 VAC to ground
> > A pin marked 210.......245 VDC to ground
> > AC pin marked 300......250 VAC to ground SG pin marked -2-.......245 VDC to ground
> > TUNE pin.....123 VDC to ground
> > 14 pin..... 17 VDC to ground
> > SG1 pin.....124 VDC to ground
> > 400 pin marked 400....450 VDC to ground
> > 300 pin marked B.......321 VDC to ground
> > PD 1 pin.....121VDC
> >
> > Mike,Let me know what you think of these measurments...George
> >
> > --- On Thu, 8/27/09, w5rkl <w5rkl@> wrote:
> >
> >
> > From: w5rkl <w5rkl@>
> > Subject: [TS-520_820_530_830] Re: TS 830 Rectifier Problems
> > To: TS-520_820_530_830@yahoogroups.com
> > Date: Thursday, August 27, 2009, 1:30 PM
> >
> >
> >
> >
> >
> >
> >
> > "I was going to again take out the entire RF board (a
> > tedious task) and check out why no voltage from the driver tube..."
> >
> > In many cases this is not necessary. Voltages can be easily measured at the plug pins using a paper clip inserted into the plug. Voltages at the tube sockets can be measured with the Heater switch turned OFF and the tube removed. Care must be taken when working around the final amplifier since the HV is constantly present on the tube plate caps when power is applied to the 830. The only way to turn the HV OFF is to remove the HV connection on the Rectifier Unit and I don't recommend doing that. Just use standard safety precautions when working around HV, or any voltage circuit(s) and you should do fine.
> >
> > 73
> > Mike W5RKL

> >
> > --- In TS-520_820_530_ 830@yahoogroups. com, George Campbell <campbellgc@ ...> wrote:
> > >
> > > Mike...Tks for the "heads up" on the diode D6 in the rectifier board.....After I replaced D-12 with a new rectifier diode it took care of the previous dead short to the counter....When I went to tune the driver coils....no 210 volts on the drive circuit...I will check out your tip about D-6 and hope that corrects the missing 210 volts....I was going to again take out the entire RF board (a tedious task) and check out why no voltager from the driver tube...I will let you know how I make out....George W!GCC
> > >
> > > --- On Thu, 8/27/09, w5rkl <w5rkl@> wrote:
> > >
> > >
> > > From: w5rkl <w5rkl@>
> > > Subject: [TS-520_820_ 530_830] Re: TS 830 Rectifier Problems
> > > To: TS-520_820_530_ 830@yahoogroups. com
> > > Date: Thursday, August 27, 2009, 12:10 AM
> > >
> > >
> > >
> > >
> > >
> > >
> > > George,
> > >
> > > The Counter Unit was not the only circuit that failed when D12 on the Rectifier Unit shorted internally and the SG switch was set to the OFF position.
> > >
> > > When diode D12 on the Rectifier Unit shorted internally and the SG switch was set to the OFF position, the SG switch caused a short to ground to exist across the AF UNIT's 12VDC supply. The AF UNIT's 12VDC supply is the source voltage for ALL 12VDC circuits.
> > >
> > > The short across the 12VDC supply resulted in loss of DC power to the Counter Unit, the RF UNIT's receiver RF amplifier Q1 and amplifier/buffer Q2, almost all of the IF UNIT circuits, as well as the AF UNIT VOX relay control circuit, Q7.
> > >
> > > The 210A supply, originating on the Rectifier Unit, failed because of a shorted C181 filter capacitor on the IF UNIT. When C181 shorted internally, C181 provided a direct short to ground on the IF UNIT plug 14 pin 2 resulting in loss of voltage from the 210A supply. The sort in the 210A supply resulted in loss of driver tube screen voltage, hence no RF output from the driver tube. A shorted C181 was also the reason R11 smoked.
> > >
> > > One last suggestion. I would check diode D6 on the Rectifier Unit as it may have failed when C181 shorted internally. If D6 has failed and even though you have replaced C181, the driver tube screen voltage will still be missing resulting in the same no RF output symptom. Just be sure when replacing diodes to install them correctly.
> > >
> > > 73
> > > Mike W5RKL
> > >

> > > --- In TS-520_820_530_ 830@yahoogroups. com, George Campbell <campbellgc@ ...> wrote:
> > > >
> > > > Mike...Thanks for the follow-up on R-11 in the rectifier unit...I am impressed by ur Kenwood "savvy".Your right C-181 was shorted. I noticed that it was shorted a few weeks ago when I was tracking down the no drive problem so I replaced C-181. So now I know what knocked out R-11 in the rectifier unit...I will be replacing diode D-12 today...I will let you know the results...I hope when I throw the SG switch to off I will be able to tune the coils in the final drive section without the freq. dial shorting out....George W1GCC...Stuart, FL
> > > >
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>
Mike...I finally had a chance today to take your suggestion and measure the driver tube voltages (12by7) with a paper clip in the tube sockets as follows:
PIN # 1 -0- SHOULD BE PER SCHEMETIC 4.6 V PROBLEM?

PIN # 2 41VDC " " " 43.6 VDC OK
PIN # 3 -0- " " " 1.4 VDC PROBLEM?
PIN # 4 -0- " " " ?
PIN # 5 12.5VAC " " " 12.5VAC OK
PIN # 6 -0- " " -0- OK
PIN # 7 325 VDC " " " 339VDC OK
PIN # 8 235 VDC " " " 241VDC OK
PIN # 9 -0- " " " ? PROBLEM?

PLENTY OF BIAS MIKE...HOWEVER STILL NO DRIVE....ANY MORE THOUGHTS?

22247. Re: TS 830 Rectifier Problems TO MIKE W5RKL

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-08-31 23:43:56 UTC
From: w5rkl
Topic: 22178 Message: 22247

> Mike...I finally had a chance today to take your suggestion and measure the driver tube voltages (12by7) with a paper clip in the tube sockets as follows:

> PIN # 1 -0- SHOULD BE PER SCHEMETIC 4.6 V PROBLEM?

No. Pin 1 is the tube's cathode. In standby (receive) the cathode voltage should be "0" as the tube is "cut off". In transmit, the voltage on pin 1 should be +4.6VDC. The voltage on pin 1 reduces to zero in standby by the application of the negative voltage to the grid, pin 2. See pin 2 voltage description next.

> PIN # 2 41VDC " " " 43.6 VDC OK

"Yes" and "No." Pin 2 is the tube's grid. In standby, the voltage applied to pin 2 should be -43.6VDC. In transmit, the voltage should be a +.4VDC. "IF" both receive and transmit voltages on pin 2 are "negative" (-43.6VDC and -41VDC), the driver tube is "cut off" and that is why there is no RF drive to the final amplifier.

> PIN # 3 -0- " " " 1.4 VDC PROBLEM?

The voltage on pin 3 will be "0" in both transmit and receive. Pin 3 is the tube's suppressor grid (screen) and it is grounded.

> PIN # 4 -0- " " " ?
> PIN # 5 12.5VAC " " " 12.5VAC OK

Pin 4 and 5 are the tube's filaments. Pin 4 is ground so it will measure zero VAC. Pin 5 is connected to the ungrounded 12VAC secondary winding on the power transformer and will measure 12VAC. No problems noted here.

> PIN # 6 -0- " " -0- OK

"Yes" and "No". Pin 6 is the tube's cathode. In standby (receive), the voltage is zero because the tube is "cut off". In transmit, however, the cathode voltage should be a positive "4.6VDC". If the voltage is "0" in both transmit and receive, there is a problem. If the voltage on pin 6 is "0" in both receive and transmit, that, again, indicates the tube is "cut off", not conducting.

> PIN # 7 325 VDC " " " 339VDC OK

No, pin 7 is the plate. In receive (standby) the plate voltage should be 339VDC, tube is cut off so no current is flowing. In transmit, the tube is conducting and the plate voltage should reduce to 297VDC. The tube is not conducting.

> PIN # 8 235 VDC " " " 241VDC OK

No, pin 8 is the tube's screen. In receive, the tube is cut off and therefore the screen voltage should be 241VDC. In transmit, the tube is conducting and the screen voltage will drop to 185VDC. Your measurement indicate the tube is not conducting.

> PIN # 9 -0- " " " ? PROBLEM?

No problem. Pin 9 is connected to the tube's suppressor grid screen the same as pin 3, hence, pin 9 is grounded through the tube's suppressor grid to pin 3 resulting in "0VDC".

>
> PLENTY OF BIAS MIKE...HOWEVER STILL NO DRIVE....ANY MORE THOUGHTS?

That good as some problems affect the bias voltage. That doesn't appear to be a problem with your 830's bias supply. I must ask, have you set the final amplifier's idling current to 60ma yet? If not, follow the operator's manual steps and set the bias for 60ma idling current.

When using the 830 high resolution schematic, the voltages in RED have, in some cases, 2 voltages. Where 2 voltages are provided, one in parens and one not in parens, at a specific connection, pin, or tube socket pin, the non-paren voltage is the "standby" (receive) voltage and the voltage in parens is the transmit voltage. It's important to understand this since performing voltage checks can make a difference as to whether the circuit is working properly, only working so-so, a component is shorted, or the circuit is not workign at all.

Recheck the voltages and compare them with the high resolution "RED" voltages around the driver tube.

73's
Mike W5RKL

22248. Re: TS 830 Rectifier Problems TO MIKE W5RKL

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-01 02:44:33 UTC
From: w5rkl
Topic: 22178 Message: 22248

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> > Mike...I finally had a chance today to take your suggestion and measure the driver tube voltages (12by7) with a paper clip in the tube sockets as follows:

George,

I should have included this comment in my last response.

I assume you made the voltage measurements with the driver tube in its socket. If the driver tube was not in its socket then the voltage measurements are incomplete.

To properly measure the voltages the driver tube must be in its socket and all voltages applied. As I mentioned in my last response, the high resolution 830 schematic shows, in many areas, 2 voltages at a particular connection/tube socket terminal. The voltage NOT in parens are the receiver or standby voltages. The voltages that ARE in the parens, are the transmit voltages.

73's
Mike W5RKL

22249. Re: TS 830 Rectifier Problems TO MIKE W5RKL

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-01 03:01:44 UTC
From: w5rkl
Topic: 22178 Message: 22249

> > PIN # 6 -0- " " -0- OK
>
> "Yes" and "No". Pin 6 is the tube's cathode. In standby (receive), the voltage is zero because the tube is "cut off". In transmit, however, the cathode voltage should be a positive "4.6VDC". If the voltage is "0" in both transmit and receive, there is a problem. If the voltage on pin 6 is "0" in both receive and transmit, that, again, indicates the tube is "cut off", not conducting.
>

This is incorrect. My editing of pin 6 information is wrong. I cut and pasted incorrect information.

The driver tube Pin 6 is NOT used in the 830. Pin 6 is the center tap of the filament inside the 12BY7. This allows the 12BY7 to be powered from a either a 6VAC or 12VAC filament supply. When 6VAC is used to power the 12BY7, pins 4 and 5 are grounded and 6VAC is applied to pin 6. The only pins used to power the filaments in the 830's 12BY7 are pins 4 and 5. Pin 6 is not used and is not connected to anything outside of the tube.

I appologize for the error.

73's
Mike W5RKL

> > PIN # 7 325 VDC " " " 339VDC OK
>
> No, pin 7 is the plate. In receive (standby) the plate voltage should be 339VDC, tube is cut off so no current is flowing. In transmit, the tube is conducting and the plate voltage should reduce to 297VDC. The tube is not conducting.
>
> > PIN # 8 235 VDC " " " 241VDC OK
>
> No, pin 8 is the tube's screen. In receive, the tube is cut off and therefore the screen voltage should be 241VDC. In transmit, the tube is conducting and the screen voltage will drop to 185VDC. Your measurement indicate the tube is not conducting.
>
> > PIN # 9 -0- " " " ? PROBLEM?
>
> No problem. Pin 9 is connected to the tube's suppressor grid screen the same as pin 3, hence, pin 9 is grounded through the tube's suppressor grid to pin 3 resulting in "0VDC".
>
> >
> > PLENTY OF BIAS MIKE...HOWEVER STILL NO DRIVE....ANY MORE THOUGHTS?
>
> That good as some problems affect the bias voltage. That doesn't appear to be a problem with your 830's bias supply. I must ask, have you set the final amplifier's idling current to 60ma yet? If not, follow the operator's manual steps and set the bias for 60ma idling

current.
>
> When using the 830 high resolution schematic, the voltages in RED have, in some cases, 2 voltages. Where 2 voltages are provided, one in parens and one not in parens, at a specific connection, pin, or tube socket pin, the non-paren voltage is the "standby" (receive) voltage and the voltage in parens is the transmit voltage. It's important to understand this since performing voltage checks can make a difference as to whether the circuit is working properly, only working so-so, a component is shorted, or the circuit is not workign at all.
>
> Recheck the voltages and compare them with the high resolution "RED" voltages around the driver tube.
>
> 73's
> Mike W5RKL
>

22250. Re: [TS-520_820_530_830] Re: TS 830 Rectifier Problems TO MIKE W5RKL

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-01 14:02:21 UTC
From: George Campbell
Topic: 22178 Message: 22250

Mike Thanks for all the voltage updates...1ST... All the measurements I sent to you were made in the receive position with the power&heater switches on and the 12BY7 not in the socket...I did not make any measurements in the transmit position
2ND I will re-measure all the voltages as you recomended with the 12BY7 in the socket..I have jury rigged a paper clip to attach the base of the paper clip to each suceeding pin to be measured while the 12BY7 is in the socket.I will let you know the results.
3RD....I do have the high resolution schematic with the red voltages indicated at the tube connections. the schematic is in the service manual....4TH...I do have the 830's final amps idling current set at 60 ma I am working on the measurments now with the mode switch set in the "tune" position....I have noted ur comment on pin 6....George W1GCC.

--- On Mon, 8/31/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: TS 830 Rectifier Problems TO MIKE W5RKL
To: TS-520_820_530_830@yahoogroups.com
Date: Monday, August 31, 2009, 11:01 PM

> > PIN # 6 -0- " " -0- OK
>
> "Yes" and "No". Pin 6 is the tube's cathode. In standby (receive), the voltage is zero because the tube is "cut off". In transmit, however, the cathode voltage should be a positive "4.6VDC". If the voltage is "0" in both transmit and receive, there is a problem. If the voltage on pin 6 is "0" in both receive and transmit, that, again, indicates the tube is "cut off", not conducting.
>

This is incorrect. My editing of pin 6 information is wrong. I cut and pasted incorrect information.

The driver tube Pin 6 is NOT used in the 830. Pin 6 is the center tap of the filament inside the 12BY7. This allows the 12BY7 to be powered from a either a 6VAC or 12VAC filament supply. When 6VAC is used to power the 12BY7, pins 4 and 5 are grounded and 6VAC is applied to pin 6. The only pins used to power the filaments in the 830's 12BY7 are pins 4 and 5. Pin 6 is not used and is not connected to anything outside of the tube.

I appologize for the error.

73's
Mike W5RKL

> > PIN # 7 325 VDC " " " 339VDC OK
>
> No, pin 7 is the plate. In receive (standby) the plate voltage should be 339VDC, tube is cut off so no current is flowing. In transmit, the tube is conducting and the plate voltage

should reduce to 297VDC. The tube is not conducting.
>
> > PIN # 8 235 VDC " " " 241VDC OK
>
> No, pin 8 is the tube's screen. In receive, the tube is cut off and therefore the screen voltage should be 241VDC. In transmit, the tube is conducting and the screen voltage will drop to 185VDC. Your measurement indicate the tube is not conducting.
>
> > PIN # 9 -0- " " " ? PROBLEM?
>
> No problem. Pin 9 is connected to the tube's suppressor grid screen the same as pin 3, hence, pin 9 is grounded through the tube's suppressor grid to pin 3 resulting in "0VDC".
>
> >
> > PLENTY OF BIAS MIKE...HOWEVER STILL NO DRIVE....ANY MORE THOUGHTS?
>
> That good as some problems affect the bias voltage. That doesn't appear to be a problem with your 830's bias supply. I must ask, have you set the final amplifier's idling current to 60ma yet? If not, follow the operator's manual steps and set the bias for 60ma idling current.
>
> When using the 830 high resolution schematic, the voltages in RED have, in some cases, 2 voltages. Where 2 voltages are provided, one in parens and one not in parens, at a specific connection, pin, or tube socket pin, the non-paren voltage is the "standby" (receive) voltage and the voltage in parens is the transmit voltage. It's important to understand this since performing voltage checks can make a difference as to whether the circuit is working properly, only working so-so, a component is shorted, or the circuit is not workign at all.
>
> Recheck the voltages and compare them with the high resolution "RED" voltages around the driver tube.
>
> 73's
> Mike W5RKL
>

[Non-text portions of this message have been removed]

22251. Re: TS 830 Rectifier Problems TO MIKE W5RKL

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-01 17:52:46 UTC
From: w5rkl
Topic: 22178 Message: 22251

Hello George,

OK, will wait for the voltage readings with the driver tube in its socket.

If you could, use 2 voltage columns, one for receive and one for transmit for each pin.

I'm more concerned about the driver tube's grid voltage since it affects the driver tube's cathode, plate and screen voltages. If the driver tube is being held at cut off in transmit due to a failure elsewhere, then there will be very little, if any, change in the driver tube's cathode, plate, and screen voltages. A driver tube that is held at cut off in transmit will fail to produce RF output which leads to zero ALC or RF output indication in TUNE mode regardless of the CAR and DRIVE control settings. The final tube's idling current will remain rather constant at 60ma, no increase in IP current since there is no RF from the driver tube being fed to the grids of the final tubes.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, George Campbell <campbellgc@...> wrote:
>
> Mike Thanks for all the voltage updates...1ST... All the measurements I sent to you were made in the receive position with the power&heater switches on and the 12BY7 not in the socket...I did not make any measurements in the transmit position
> 2ND I will re-measure all the voltages as you recomended with the 12BY7 in the socket..I have jury rigged a paper clip to attach the base of the paper clip to each suceeding pin to be measured while the 12BY7 is in the socket.I will let you know the results.
> 3RD....I do have the high resolution schematic with the red voltages indicated at the tube connections. the schematic is in the service manual....4TH...I do have the 830's final amps idling current set at 60 ma I am working on the measurments now with the mode switch set in the "tune" position....I have noted ur comment on pin 6....George W1GCC.
>
> --- On Mon, 8/31/09, w5rkl <w5rkl@...> wrote:
>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: TS 830 Rectifier Problems TO MIKE W5RKL
> To: TS-520_820_530_830@yahoogroups.com
> Date: Monday, August 31, 2009, 11:01 PM
>
>
>
>
>
>
>
> > > PIN # 6 -0- " " -0- OK
> >

> > "Yes" and "No". Pin 6 is the tube's cathode. In standby (receive), the voltage is zero because the tube is "cut off". In transmit, however, the cathode voltage should be a positive "4.6VDC". If the voltage is "0" in both transmit and receive, there is a problem. If the voltage on pin 6 is "0" in both receive and transmit, that, again, indicates the tube is "cut off", not conducting.
> >
>
> This is incorrect. My editing of pin 6 information is wrong. I cut and pasted incorrect information.
>
> The driver tube Pin 6 is NOT used in the 830. Pin 6 is the center tap of the filament inside the 12BY7. This allows the 12BY7 to be powered from a either a 6VAC or 12VAC filament supply. When 6VAC is used to power the 12BY7, pins 4 and 5 are grounded and 6VAC is applied to pin 6. The only pins used to power the filaments in the 830's 12BY7 are pins 4 and 5. Pin 6 is not used and is not connected to anything outside of the tube.
>
> I appologize for the error.
>
> 73's
> Mike W5RKL
>
> > > PIN # 7 325 VDC " " " 339VDC OK
> >
> > No, pin 7 is the plate. In receive (standby) the plate voltage should be 339VDC, tube is cut off so no current is flowing. In transmit, the tube is conducting and the plate voltage should reduce to 297VDC. The tube is not conducting.
> >
> > > PIN # 8 235 VDC " " " 241VDC OK
> >
> > No, pin 8 is the tube's screen. In receive, the tube is cut off and therefore the screen voltage should be 241VDC. In transmit, the tube is conducting and the screen voltage will drop to 185VDC. Your measurement indicate the tube is not conducting.
> >
> > > PIN # 9 -0- " " " ? PROBLEM?
> >
> > No problem. Pin 9 is connected to the tube's suppressor grid screen the same as pin 3, hence, pin 9 is grounded through the tube's suppressor grid to pin 3 resulting in "0VDC".
> >
> > >
> > > PLENTY OF BIAS MIKE...HOWEVER STILL NO DRIVE....ANY MORE THOUGHTS?
> >
> > That good as some problems affect the bias voltage. That doesn't appear to be a problem with your 830's bias supply. I must ask, have you set the final amplifier's idling current to 60ma yet? If not, follow the operator's manual steps and set the bias for 60ma idling current.
> >
> > When using the 830 high resolution schematic, the voltages in RED have, in some cases, 2 voltages. Where 2 voltages are provided, one in parens and one not in parens, at a specific connection, pin, or tube socket pin, the non-paren voltage is the "standby" (receive) voltage and the voltage in parens is the transmit voltage. It's important to

understand this since performing voltage checks can make a difference as to whether the circuit is working properly, only working so-so, a component is shorted, or the circuit is not workign at all.
> >
> > Recheck the voltages and compare them with the high resolution "RED" voltages around the driver tube.
> >
> > 73's
> > Mike W5RKL
> >
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>
> [Non-text portions of this message have been removed]
>

22252. TS-830 Filter & strap end

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-01 18:14:09 UTC
From: billhart_1
Topic: 22252 Message: 22252

I'm in need of the CW filter for my TS-830 and also one of the chrome strap cover ends. If you have either of these items please contact me. Thanks.
Bill
W5ZV

22253. TS-520S handle and radio for sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-01 22:55:32 UTC
From: aztrooper@sbcglobal.net
Topic: 22253 Message: 22253

I had a new handle made for my TS-520S at a local boot shop. He did an outstanding job. I took him my old handle and the steel insert from the handle (I had taken it apart). He put the steel insert in it and punched the correct length slots in the leather and sewed it together...very professional. I put a picture of it in the photo section along with the name, address and phone number of the Boot shop. It was cheaper to have this made than it was to buy one from a guy in Colorado who had one for sale. With this installed, I am selling the radio. It is a Kenwood TS-520S in very nice condition both physically and electronically. I actually have not transmitted on it because when I got it, I didn't have my General ticket yet but the man I got it from had it running when I got there and made several contacts with it while I was there. It will come with the radio, A/C power cord, a very nice Kenwood MC-50 mic and a Kenwood DG-5 that reads 2mhz high. I am getting rid of it because I bought an Icom IC-706MKIIG and don't need two HF radios. I want $350 for it all plus shipping. Picture in the photo section also under Kenwood TS-520S

73's
Bob
KD0EEZ

22254. Re: [TS-520_820_530_830] TS-520S handle and radio for sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-01 23:34:11 UTC
From: Bob Singer
Topic: 22253 Message: 22254

I also have the original operators manual and a copy of the service
manual and DG-5 service manual.
Bob

aztrooper@... wrote:
>
>
> I had a new handle made for my TS-520S at a local boot shop. He did an
> outstanding job. I took him my old handle and the steel insert from
> the handle (I had taken it apart). He put the steel insert in it and
> punched the correct length slots in the leather and sewed it
> together...very professional. I put a picture of it in the photo
> section along with the name, address and phone number of the Boot
> shop. It was cheaper to have this made than it was to buy one from a
> guy in Colorado who had one for sale. With this installed, I am
> selling the radio. It is a Kenwood TS-520S in very nice condition both
> physically and electronically. I actually have not transmitted on it
> because when I got it, I didn't have my General ticket yet but the man
> I got it from had it running when I got there and made several
> contacts with it while I was there. It will come with the radio, A/C
> power cord, a very nice Kenwood MC-50 mic and a Kenwood DG-5 that
> reads 2mhz high. I am getting rid of it because I bought an Icom
> IC-706MKIIG and don't need two HF radios. I want $350 for it all plus
> shipping. Picture in the photo section also under Kenwood TS-520S
>
> 73's
> Bob
> KD0EEZ
>
>

22255. Re: [TS-520_820_530_830] TS-520S handle and radio for sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-02 03:25:51 UTC
From: Bob Singer
Topic: 22253 Message: 22255

Forgot two other things. The radio has both the CW and SSB filters
installed.
Bob

Bob Singer wrote:
>
>
> I also have the original operators manual and a copy of the service
> manual and DG-5 service manual.
> Bob
>
> aztrooper@... <mailto:aztrooper%40sbcglobal.net> wrote:
> >
> >
> > I had a new handle made for my TS-520S at a local boot shop. He did an
> > outstanding job. I took him my old handle and the steel insert from
> > the handle (I had taken it apart). He put the steel insert in it and
> > punched the correct length slots in the leather and sewed it
> > together...very professional. I put a picture of it in the photo
> > section along with the name, address and phone number of the Boot
> > shop. It was cheaper to have this made than it was to buy one from a
> > guy in Colorado who had one for sale. With this installed, I am
> > selling the radio. It is a Kenwood TS-520S in very nice condition both
> > physically and electronically. I actually have not transmitted on it
> > because when I got it, I didn't have my General ticket yet but the man
> > I got it from had it running when I got there and made several
> > contacts with it while I was there. It will come with the radio, A/C
> > power cord, a very nice Kenwood MC-50 mic and a Kenwood DG-5 that
> > reads 2mhz high. I am getting rid of it because I bought an Icom
> > IC-706MKIIG and don't need two HF radios. I want $350 for it all plus
> > shipping. Picture in the photo section also under Kenwood TS-520S
> >
> > 73's
> > Bob
> > KD0EEZ
> >
> >
>
>

22256. Plate Tuning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-02 03:51:36 UTC
From: blacklabpupp
Topic: 22256 Message: 22256

This has puzzled me for some time. On the Plate tuning knob, the bands are marked with large white spaces that seem easy enough to read on the higher bands. But where do you start on 80 meters. The 3.5 is in the middle of the white portion of the dial, and 40 meters is connected to it. So if I am loading up on 3.581, do I put the pointer on the 3.5 or on the bottom of the white portion? I have loaded it up in several places and it worked, but I am not sure of where it really goes. I never use 80/75, I hardly ever leave 20 and it is dead for now. But tell me where you guys set the pointer, cause it sure beats me where to start. Gene

22257. TS-520SE VFO knob

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-02 04:14:13 UTC
From: paharleyguy2001
Topic: 22257 Message: 22257

Hello,
I'm looking for a VFO knob.Came into the shack today
and found a large scratch on my VFO dail.
Does anyone have one that they are willing to sell?
Thanks for reading.

Ralph
K3FXR

22258. Plate Current

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-02 06:25:02 UTC
From: blacklabpupp
Topic: 22258 Message: 22258

Is it mandatory to run the plate current at 60 ma? Can they be run at 40 or 50 with no problems? After looking at the specs for the tubes I can see no reason for running at 60 ma. I know you guys have the answer but this has puzzled me for a while also. I have tuned up one of the rigs using 50 ma and see no difference. All the best Gene

22259. Re: [TS-520_820_530_830] Plate Current

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-02 07:01:26 UTC
From: Gordon JC Pearce
Topic: 22258 Message: 22259

On Wed, 2009-09-02 at 06:25 +0000, blacklabpupp wrote:
> Is it mandatory to run the plate current at 60 ma? Can they be run at
> 40 or 50 with no problems? After looking at the specs for the tubes I
> can see no reason for running at 60 ma. I know you guys have the
> answer but this has puzzled me for a while also. I have tuned up one
> of the rigs using 50 ma and see no difference. All the best Gene

You're not really "running" the PA valves at 60mA, that's the quiescent current. When you're actually amplifying some stuff through them the anode current may be over 200mA, as indicated on the meter.

The reason you set them to 60mA at "idle" is to bias them into their linear portion. The valve doesn't have a perfectly linear relationship between the voltage on the grid and the current through the anode, so (just as with a transistor amplifier) a bit of bias shoves it up onto the flat bit.

Gordon 2M0YEQ

22260. Re: Plate Current

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-02 14:56:37 UTC
From: w5rkl
Topic: 22258 Message: 22260

Is the 60ma mandatory? Yes, if the amplifier is to remain operating in its normal AB1 class.

Tubes amplify by a positive and negative "swing" in grid voltage from the driving signal. The normal fix grid bias (set by the bias pot in all hybrids) does not, in itself, change, but by applying the RF sine wave to the grid of the final tube, the grid swings positive and negative. As the swing occurs, a swing up and down in plate current also takes place in the tube.

If the bias voltage is incorrectly set, the positive and negative swing in the grid can result in the swing in plate current in the tube to be in a non-linear portion of the tube's plate curve which results in distortion in the output signal.

You cannot see this by simply looking at the plate current meter or an RF watt meter. You can, however, see this quite clearly by studying the plate curves of tubes operating in various plate and grid voltages. The ARRL handbook as well as tube manuals show this quite clearly.

I would not recommend operating the final amplifier in any transmitter at a bias setting that is not equal to the normal bias setting.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "blacklabpupp" <blacklabpupp@...> wrote:
>
> Is it mandatory to run the plate current at 60 ma? Can they be run at 40 or 50 with no problems? After looking at the specs for the tubes I can see no reason for running at 60 ma. I know you guys have the answer but this has puzzled me for a while also. I have tuned up one of the rigs using 50 ma and see no difference. All the best Gene
>

22261. Re: [TS-520_820_530_830] Plate Tuning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-02 13:04:38 UTC
From: John Davidson
Topic: 22256 Message: 22261

You set the plate tuning to the point where the plate current dips when you are tuning up. !!! !!!

--- On Tue, 9/1/09, blacklabpupp <blacklabpupp@...> wrote:

From: blacklabpupp <blacklabpupp@...>
Subject: [TS-520_820_530_830] Plate Tuning
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, September 1, 2009, 11:51 PM

This has puzzled me for some time. On the Plate tuning knob, the bands are marked with large white spaces that seem easy enough to read on the higher bands. But where do you start on 80 meters. The 3.5 is in the middle of the white portion of the dial, and 40 meters is connected to it. So if I am loading up on 3.581, do I put the pointer on the 3.5 or on the bottom of the white portion? I have loaded it up in several places and it worked, but I am not sure of where it really goes. I never use 80/75, I hardly ever leave 20 and it is dead for now. But tell me where you guys set the pointer, cause it sure beats me where to start. Gene

[Non-text portions of this message have been removed]

22262. TS-820 with low garbled output on SSB.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-02 14:53:58 UTC
From: vk2vzz
Topic: 22262 Message: 22262

I have picked up a TS-820 which appears in pretty good condition. However it has a strange problem with ssb transmit.

Carrier transmit power on CW appears good at around 100W on 80m. However, when I transmit on SSB I'm lucky to peak at 30W with garbled audio.

Also the Compressor does not appear to function either. I'm trying to drive it with a Heil GM-4 which is the only mic I have with a 4-pin Mic connector. My next step was to try and find someone with an MC-50 and try that out.

Regards,

Greg

22263. TS-820s and wattage output.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-02 05:59:01 UTC
From: trippkj4bkd
Topic: 22263 Message: 22263

Hello all.

Recently I have seen my wattage output go beyond 100 watts with only 110 ma of plate current. I checked on another watt meter and same thing. My load control is still set to minimum. Is this possible?
If so then it would explain why the MFJ 969 tuner has arched over several times. I have noticed while tunning for 225 ma that the watt meter on the tunner has gone off the scale. This is freaking me out. As far as I know there have been no modifications to the rig. and I have replaced the screen grid resitors and installed the final cage kit by Ken K4EAA. I have replaced the finals and nuetralized them. But pushing to much power would probably explain why the rig has given me so much trouble.

I appreciate any advice as I was thinking of purchaseing an LDG tunner to replace the MFJ but may have other troubles to contend with.

22264. Re: [TS-520_820_530_830] Plate Current

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-02 13:14:09 UTC
From: John Davidson
Topic: 22258 Message: 22264

YES this is the point where the linerity of the PA on SSB is best. If you change the bias point you will get distortion and /or flat topping of the waveform, CAUSING SPLATTER off your frequency,And a loss of efficiency.
If you only work CW it does not matter so much.
I have not used my TS520 on SSB for years but I still check idle ccurrent on SSB mode now and then just "because"...

--- On Wed, 9/2/09, blacklabpupp <blacklabpupp@...> wrote:

From: blacklabpupp <blacklabpupp@...>
Subject: [TS-520_820_530_830] Plate Current
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, September 2, 2009, 2:25 AM

Is it mandatory to run the plate current at 60 ma?

[Non-text portions of this message have been removed]

22265. RE: [TS-520_820_530_830] TS-820 with low garbled output on SSB.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-02 15:56:06 UTC
From: Greg Anders
Topic: 22262 Message: 22265

My input is to try another mic before assuming anything inside the radio is "geschlacht"....
I'm not familiar with the GM4 but many Heil mic/s don't work very well on certain radios. If you have a nice hi-impedance 444 or an MC50 or even a D-104 I would try it first.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of vk2vzz
Sent: Wednesday, September 02, 2009 7:54 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS-820 with low garbled output on SSB.

I have picked up a TS-820 which appears in pretty good condition. However it has a strange problem with ssb transmit.

Carrier transmit power on CW appears good at around 100W on 80m. However, when I transmit on SSB I'm lucky to peak at 30W with garbled audio.

Also the Compressor does not appear to function either. I'm trying to drive it with a Heil GM-4 which is the only mic I have with a 4-pin Mic connector. My next step was to try and find someone with an MC-50 and try that out.

Regards,

Greg

[Non-text portions of this message have been removed]

22266. Re: [TS-520_820_530_830] TS-820s and wattage output.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-02 16:33:37 UTC
From: marcus_leatham
Topic: 22263 Message: 22266

Your output wattmeter shows the total power going out.
If you have a 100 watt rig, the wattmeter can show more than
100 watts. Why? Because there might be some reflected power
from the antenna, which is reflected back again at the rig, towards
the antenna. This power is added to your 100 watts, going out on
the first pass. This "reflected power gain" is a sign of a bad match
in your antenna system, which is not necessarily inefficient if you
have low-loss feedline....
To find the true output power of the rig, you must subtract the
reflected power.

As an example,

Let's say your rig is putting out 100 watts, and this 100 watts
travels out the feedline to the antenna, where 70 watts is radiated
and 30 watts is reflected. With lossless feedline, the 30 watts
comes back to the rig, and is then reflected back towards the
antenna, in addition to the newly added 100 watts, so your
power meter will read 130 watts. Now you have 130 watts
traveling towards the antenna and a certain portion of it returns
again. This is a recursive action, power bounces up and down
the feedline, a portion of it is radiated each time. You could end
up in the steady state with 130 watts indicated out of your rig,
100 watts out the antenna, and 30 watts reflected. Your rig
is putting out 100 watts but showing 130 watts out on the meter.

Like I say, this is due to reflections in your antenna system.

Mark Leatham
RCS, Inc.
740-373-8811 ext 3122
----- Original Message -----
From: trippkj4bkd
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, September 02, 2009 1:59 AM
Subject: [TS-520_820_530_830] TS-820s and wattage output.

Hello all.

Recently I have seen my wattage output go beyond 100 watts with only 110 ma of plate
current. I checked on another watt meter and same thing. My load control is still set to
minimum. Is this possible?
If so then it would explain why the MFJ 969 tuner has arched over several times. I have
noticed while tunning for 225 ma that the watt meter on the tunner has gone off the scale.
This is freaking me out. As far as I know there have been no modifications to the rig. and
I have replaced the screen grid resitors and installed the final cage kit by Ken K4EAA. I

have replaced the finals and nuetralized them. But pushing to much power would probably explain why the rig has given me so much trouble.

I appreciate any advice as I was thinking of purchaseing an LDG tunner to replace the MFJ but may have other troubles to contend with.

22267. Re: [TS-520_820_530_830] TS-820 with low garbled output on SSB.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-02 18:21:30 UTC
From: martin
Topic: 22262 Message: 22267

Hi Greg. Definitely try another mic on the radio! While I cannot seem to find out the exact impedance of the GM4 element, most Heil elements are low impedance dynamic elements. The do say that the GM5V is for radio requiring high impedance mics.

I have heard many Heil mics in on air comparisons, and have not been impressed with them.

What type of meter are you using to measure the output of the radio? Most watt-meters will not read true SSB power. For example, the meter in my MFJ-941D tuner only reads 20-25 watts on SSB when I am speaking normally into the mic (with the mic gain set according to the manual). This is mainly because the meter needle does not move fast enough. Now if I whistle into the mic in SSB mode (into a dummy load of course!), I see the same output power as I do in CW mode.

I would make sure to follow the instructions in the manual to tune up the radio (into a dummy load), and also follow the instructions as to how to set the mic gain.

Another possibility is that you have some RF getting into the mic at some point.

TTYL

vk2vzz wrote:
> I have picked up a TS-820 which appears in pretty good condition.
> However it has a strange problem with ssb transmit.
>
> Carrier transmit power on CW appears good at around 100W on 80m.
> However, when I transmit on SSB I'm lucky to peak at 30W with
> garbled audio.
>
> Also the Compressor does not appear to function either. I'm trying
> to drive it with a Heil GM-4 which is the only mic I have with a
> 4-pin Mic connector. My next step was to try and find someone with
> an MC-50 and try that out.
>
> Regards,
>
> Greg
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

22268. Re: TS-820s and wattage output.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-02 22:21:48 UTC
From: trippkj4bkd
Topic: 22263 Message: 22268

--- In TS-520_820_530_830@yahoogroups.com, "marcus_leatham" <kr5n@...> wrote:
>
> Your output wattmeter shows the total power going out.
> If you have a 100 watt rig, the wattmeter can show more than
> 100 watts. Why? Because there might be some reflected power
> from the antenna, which is reflected back again at the rig, towards
> the antenna. This power is added to your 100 watts, going out on
> the first pass. This "reflected power gain" is a sign of a bad match
> in your antenna system, which is not necessarily inefficient if you
> have low-loss feedline....
> To find the true output power of the rig, you must subtract the
> reflected power.
>
> As an example,
>
> Let's say your rig is putting out 100 watts, and this 100 watts
> travels out the feedline to the antenna, where 70 watts is radiated
> and 30 watts is reflected. With lossless feedline, the 30 watts
> comes back to the rig, and is then reflected back towards the
> antenna, in addition to the newly added 100 watts, so your
> power meter will read 130 watts. Now you have 130 watts
> traveling towards the antenna and a certain portion of it returns
> again. This is a recursive action, power bounces up and down
> the feedline, a portion of it is radiated each time. You could end
> up in the steady state with 130 watts indicated out of your rig,
> 100 watts out the antenna, and 30 watts reflected. Your rig
> is putting out 100 watts but showing 130 watts out on the meter.
>
> Like I say, this is due to reflections in your antenna system.
>
>
> Mark Leatham
> RCS, Inc.
> 740-373-8811 ext 3122
> ----- Original Message -----
> From: trippkj4bkd
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, September 02, 2009 1:59 AM
> Subject: [TS-520_820_530_830] TS-820s and wattage output.
>
>
> Hey Mark, Thanks for the reminder of how the SWR behaves in the antenna as to the output power of the rig and the reflected SWR adding to the output. This must be what is happening with my rig.
It is really scary to see the power going off the scale. I need a new tunner I think mine

is defective and was considering getting an LDG auto tuner. Has any one had sucess with thees tuners using a Kenwood hybrid rig. I was told by a fellow ham that the LDG's would not work as well with the hybrid rigs like the MFJ 969. I Have an 80 meter dipole cut to 51 feet each leg fed to a Balun Designs 1 to 1 balun and then fed about 30 feet on RG8X down to rig and tuner. I know that this is not the Antenna Group but maybe some quick thoughts about the tunabllity of such a setup,as I have had a whole lot of problems lately with the tuner and arching over and burning one of the antenna inputs on the tuner as where it attaches to the circuit board on the tuner. I should be able to tune the rig with the 80 meter dipole but the tuner is getting worse and worse. This tuner once did the job. Of course it was second or third hand tuner and am not sure what it was put thru before I had it.Sorry for rambling on so long. But I am getting discouraged with the whole setup. But I still love HAM Radio and Kenwood hybrids.

22269. Re: [TS-520_820_530_830] Re: TS-820s and wattage output.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-02 22:55:09 UTC
From: Lou Blasco
Topic: 22263 Message: 22269

Hi Thomas,

Seems to me that your real problem might lie with your aerial. The hybrid rigs should easily handle a 3:1 VSWR without the need for a tuner. What's the VSWR on your aerial?

Lou
VK3ALB

At 08:21 AM 03/09/2009, you wrote:

> >
> > Hey Mark, Thanks for the reminder of how the SWR behaves in the
> antenna as to the output power of the rig and the reflected SWR
> adding to the output. This must be what is happening with my rig.
>It is really scary to see the power going off the scale. I need a
>new tunner I think mine is defective and was considering getting an
>LDG auto tuner. Has any one had sucess with thees tuners using a
>Kenwood hybrid rig. I was told by a fellow ham that the LDG's would
>not work as well with the hybrid rigs like the MFJ 969. I Have an
>80 meter dipole cut to 51 feet each leg fed to a Balun Designs 1 to
>1 balun and then fed about 30 feet on RG8X down to rig and tuner. I
>know that this is not the Antenna Group but maybe some quick
>thoughts about the tunabllity of such a setup,as I have had a whole
>lot of problems lately with the tuner and arching over and burning
>one of the antenna inputs on the tuner as where it attaches to the
>circuit board on the tuner. I should be able to tune the rig with
>the 80 meter dipole but the tuner is getting worse and worse. This
>tuner once did the job. Of course it was second or third hand tuner
>and am not sure what it was put thru before I had it.Sorry for
>rambling on so long. But I am getting discouraged with the whole
>setup. But I still love HAM Radio and Kenwood hybrids.
>

22270. Question about tones on receive

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-02 23:23:09 UTC
From: Bob Singer
Topic: 22270 Message: 22270

Being new to this, I have a question. While tuning through the frequencies, I hear tones that as you tune through them, start out low frequency then go to a peak high freq and then back down. Anyone know what those are?

thanks
Bob
KD0EEZ

22271. Re: [TS-520_820_530_830] Question about tones on receive

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-02 23:31:09 UTC
From: Dave ve3wej
Topic: 22270 Message: 22271

It depends on where you here them....

specify frequencies, check bandplan.

they could be sstv, rtty psk31, and a whole lot more.

they could also be "birdies" from your computer...

----- Original Message -----
From: "Bob Singer" <aztrooper@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, September 02, 2009 7:23 PM
Subject: [TS-520_820_530_830] Question about tones on receive

> Being new to this, I have a question. While tuning through the
> frequencies, I hear tones that as you tune through them, start out low
> frequency then go to a peak high freq and then back down. Anyone know
> what those are?
>
> thanks
> Bob
> KD0EEZ
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
>

22272. Re: [TS-520_820_530_830] Question about tones on receive

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-03 00:06:09 UTC
From: Bob Singer
Topic: 22270 Message: 22272

I have heard them when I was little also listening on my BC 348R in the
60's. Right now, I hear them on 40M between 14.100 through say 14.300.
I'm sure they are on

Bob

Dave ve3wej wrote:
>
>
> It depends on where you here them....
>
> specify frequencies, check bandplan.
>
> they could be sstv, rtty psk31, and a whole lot more.
>
> they could also be "birdies" from your computer...
>
> ----- Original Message -----
> From: "Bob Singer" <aztrooper@...
> <mailto:aztrooper%40sbcglobal.net>>
> To: <TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>>
> Sent: Wednesday, September 02, 2009 7:23 PM
> Subject: [TS-520_820_530_830] Question about tones on receive
>
> > Being new to this, I have a question. While tuning through the
> > frequencies, I hear tones that as you tune through them, start out low
> > frequency then go to a peak high freq and then back down. Anyone know
> > what those are?
> >
> > thanks
> > Bob
> > KD0EEZ
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
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22273. Re: [TS-520_820_530_830] Re: TS-820s and wattage output.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-03 00:08:42 UTC
From: martin
Topic: 22263 Message: 22273

Hi. Your antenna is not really an 80M dipole. At 51 feet per side, it will be resonant at 4.589 Mhz. A dipole cut for resonance at 3.8Mhz would be 61.58 feet per side. It is possible that the tuner you have was abused before you acquired it, and it is having problems now because of that.

I am using an MFJ 941D tuner that I had to do some work on. It has some cosmetic defects, but it works very well. It will tune my 80M dipole on all bands. Tuning on some bands is a little tricky, as one leg of the dipole is too close to the house here.

Power readings can vary, depending on the actual SWR of the antenna. The tuner does not really "tune" the antenna, it just lets the transmitter see the 50 ohm load it is looking for.

Resonant antennas are best, but not practical in some circumstances. I would make each leg of your antenna 61.58 feet if possible. The ends can be bent to fit the space you have. Try to get the antenna as high in the air as possible, and as far away from any objects as you can, especially large metal objects. You might try without the balun, just to see if it might be bad.

Do you have a dummy load? You really do need one with these Kenwood hybrid radios.

TTYL

I Have an
> 80 meter dipole cut to 51 feet each leg fed to a Balun Designs 1 to
> 1 balun and then fed about 30 feet on RG8X down to rig and tuner. I
> know that this is not the Antenna Group but maybe some quick
> thoughts about the tunabllity of such a setup,as I have had a whole
> lot of problems lately with the tuner and arching over and burning
> one of the antenna inputs on the tuner as where it attaches to the
> circuit board on the tuner. I should be able to tune the rig with
> the 80 meter dipole but the tuner is getting worse and worse. This
> tuner once did the job. Of course it was second or third hand tuner
> and am not sure what it was put thru before I had it.Sorry for
> rambling on so long. But I am getting discouraged with the whole
> setup. But I still love HAM Radio and Kenwood hybrids.
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

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"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

22274. Re: [TS-520_820_530_830] Question about tones on receive

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-03 00:12:44 UTC
From: Lou Blasco
Topic: 22270 Message: 22274

You're probably hearing carriers from rouge SW broadcasters that haven't moved out of the 40m allocation yet. Most of them moved out right away and the band cleared up nicely in the weeks after the change on March 30. Then they started sneaking back in onto their old frequencies.

At 10:06 AM 03/09/2009, you wrote:
>I have heard them when I was little also listening on my BC 348R in the >60's. Right now, I hear them on 40M between 14.100 through say 14.300. >I'm sure they are on

22275. Re: [TS-520_820_530_830] Question about tones on receive

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-03 00:19:39 UTC
From: Dave ve3wej
Topic: 22270 Message: 22275

>I have heard them when I was little also listening on my BC 348R in the
> 60's. Right now, I hear them on 40M between 14.100 through say 14.300.

14.100 to 14.300 is actually 20 meters, but at that low end it could be as I
said, rtty, packet,
14140 usb national calling freq (phone) in Canada
14230 sstv
14233 sstv and digital sstv

the rest on usb could be anything

22276. Re: [TS-520_820_530_830] Question about tones on receive

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-03 00:24:45 UTC
From: Bob Singer
Topic: 22270 Message: 22276

Yea, sorry. I'm new. I've heard them on 40 but the freqs I indicated
are 20M. Bob

Dave ve3wej wrote:
>
>
> >I have heard them when I was little also listening on my BC 348R in the
> > 60's. Right now, I hear them on 40M between 14.100 through say 14.300.
>
> 14.100 to 14.300 is actually 20 meters, but at that low end it could
> be as I
> said, rtty, packet,
> 14140 usb national calling freq (phone) in Canada
> 14230 sstv
> 14233 sstv and digital sstv
>
> the rest on usb could be anything
>
>

22277. Re: [TS-520_820_530_830] Question about tones on receive

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-03 00:24:58 UTC
From: Lou Blasco
Topic: 22270 Message: 22277

Yes my bad, no excuse just not reading things right.

14MHz = 20m and 7MHz = 40m.

At 10:19 AM 03/09/2009, you wrote:
> >I have heard them when I was little also listening on my BC 348R in the
> > 60's. Right now, I hear them on 40M between 14.100 through say 14.300.
>
>
>14.100 to 14.300 is actually 20 meters, but at that low end it could be as I
>said, rtty, packet,
>14140 usb national calling freq (phone) in Canada
>14230 sstv
>14233 sstv and digital sstv
>
>the rest on usb could be anything
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>Yahoo! Groups Links
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22278. Re: [TS-520_820_530_830] Question about tones on receive

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-03 01:00:21 UTC
From: Dave ve3wej
Topic: 22270 Message: 22278

ok, but unless I missed it, you still need to be more specific. there is psk
and rtty around 7030 (or so), rtty, psk,amtor, and other around 7070-7100,
and voice above 7100-7300 for amateurs, also digital sstv at 7173.... and
sstv at 7175?? 7178???

so you see, we need more spefic as to what you are hearing....
and what mode you are hearing it in, am,lsb,usb you get the idea

----- Original Message -----
From: "Bob Singer" <aztrooper@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, September 02, 2009 8:24 PM
Subject: Re: [TS-520_820_530_830] Question about tones on receive

> Yea, sorry. I'm new. I've heard them on 40 but the freqs I indicated
> are 20M. Bob
>
> Dave ve3wej wrote:
>>
>>
>> >I have heard them when I was little also listening on my BC 348R in the
>> > 60's. Right now, I hear them on 40M between 14.100 through say 14.300.
>>
>> 14.100 to 14.300 is actually 20 meters, but at that low end it could
>> be as I
>> said, rtty, packet,
>> 14140 usb national calling freq (phone) in Canada
>> 14230 sstv
>> 14233 sstv and digital sstv
>>
>> the rest on usb could be anything
>>
>>
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> Yahoo! Groups Links
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22279. 6 meter transverter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-03 01:38:39 UTC
From: bornofthehorses
Topic: 22279 Message: 22279

Anyone seen a 6 meter transverter for the TS -520s available on the net?
Ken

22280. Re: [TS-520_820_530_830] Question about tones on receive

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-03 02:10:36 UTC
From: Bob Singer
Topic: 22270 Message: 22280

Without being able to make sounds on this group, all I can describe it as a whistle. It will start at a low frequency and to up to a high frequency as you initially find it, and then go a few more khz through the frequency band. Right now, I'm on 14.195 mhz and as I tune up in frequency, the tone starts out goes from a high pitch to a low pitch and then nothing at 14.199. Does it again at 14.211 to 14.215. They are all over the band and others. Just wondering what it is. Bob

Dave ve3wej wrote:
>
>
> ok, but unless I missed it, you still need to be more specific. there
> is psk
> and rtty around 7030 (or so), rtty, psk,amtor, and other around 7070-7100,
> and voice above 7100-7300 for amateurs, also digital sstv at 7173.... and
> sstv at 7175?? 7178???
>
> so you see, we need more spefic as to what you are hearing....
> and what mode you are hearing it in, am,lsb,usb you get the idea
>
> ----- Original Message -----
> From: "Bob Singer" <aztrooper@...
> <mailto:aztrooper%40sbcglobal.net>>
> To: <TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>>
> Sent: Wednesday, September 02, 2009 8:24 PM
> Subject: Re: [TS-520_820_530_830] Question about tones on receive
>
> > Yea, sorry. I'm new. I've heard them on 40 but the freqs I indicated
> > are 20M. Bob
> > >
> > Dave ve3wej wrote:
> >>
> >>
> >> >I have heard them when I was little also listening on my BC 348R
> in the
> >> > 60's. Right now, I hear them on 40M between 14.100 through say
> 14.300.
> >>
> >> 14.100 to 14.300 is actually 20 meters, but at that low end it could
> >> be as I
> >> said, rtty, packet,
> >> 14140 usb national calling freq (phone) in Canada
> >> 14230 sstv
> >> 14233 sstv and digital sstv

> >>
> >> the rest on usb could be anything
> >>
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> > Yahoo! Groups Links
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>

22281. Re: TS-820s and wattage output.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-03 13:20:52 UTC
From: marcus_leatham
Topic: 22263 Message: 22281

Don't get discouraged. Antenna problems are easier to fix
than rig problems. The way you talk about your tuner, it may be
giving you trouble.

One thing to do for a quick check: If you have a dummy load,
try transmitting into it. The dummy load should have no reflected
power, so it will quickly indicate whether your problem is in the
antenna system or in the rig or tuner / meter.

I have two LDG tuners. The AT-11 and the QRP. I built them as
kits. I can't think of any reason they wouldn't work with a hybrid
rig. They will probably go into auto-tune mode if you adjust the
tuning and loading controls on your rig, however.

To use an auto-tuner, I first would use a dummy load and tune up
your rig on the freq you want to use. Once you're tuned into the
dummy load, don't change anything, but now connect the LDG and your
antenna instead of the dummy load. The LDG should find a match and
you're good to go. While the LDG is searching for a match, you
could reduce the power output by turning down the mic gain, that'll
make it easier on your PA tubes.

I prefer the manual tuners, however. They have coax switches, and I
can put a dummy load on one of the antenna ports. One of my manual
tuners has a built-in dummy load which is a great idea.

The auto-tuners work great for transistorized broadband rigs like
the Ten Tecs and my QRP kits.

One tool that I am constantly using is the MFJ Antenna Analyzer,
MFJ-259B. You can adjust your tuner for a 50 Ohm match quickly.
The MFJ model was the first of its kind and there are several other
brands available now. My only gripe about it, is that the meter
gets jumpy when you get close to the 1:1 point. I guess it is doing
some math internally and results vary widely when dividing by numbers
that are close to zero. (The reflected power goes to nearly zero.)
The scratchy roller inductor is the culprit.

Your 51' per side dipole sounds like it started out as a G5RV.
The balun and RG-8X may work or maybe not. I used to have a G5RV,
and I cut off the balun and coax and ran twin lead (450 Ohm window
line) straight to the balanced antenna posts on the back of my tuner,
an MFJ-989C. I used that antenna on all bands 80 - 10 with the
tuner, good results. I even forced it on 160 but it wasn't good.

If you're having trouble loading up on a certain band, try adding
or subtracting 25 feet of coax. It could be that you've been using

a length of coax that is impossible to match. Changing the length of coax will change the impedance that the tuner sees, and may bring it back into the matchable range.

You will have reflections on your coax, because it isn't a resonant antenna, but only 30 feet will not make great losses. However, high RF voltages could result in arcing and scorching your tuner. The tuner could be getting worse with time. Adding another 25 feet of coax won't increase your losses very much, either.

Your 1:1 balun is fine and should prevent radiation from the shield of your coax. You're not getting RF burns in the shack are you?

Sounds like a tweak here and there and you will have your problems licked. Try the dummy load, isolate the problem. If it's the antenna that can't be matched, try adding some coax. If you get an auto tuner, tune into the dummy load first.

If there's a rig problem, maybe somebody else in the group will be better to help you. The tube finals are pretty rugged, however.

And that's all I have to say about that. (-Forrest Gump)

Mark KR5N dit dit

Hey Mark, Thanks for the reminder of how the SWR behaves in the antenna as to the output power of the rig and the reflected SWR adding to the output. This must be what is happening with my rig.

22282. Re: [TS-520_820_530_830] Re: TS-820s and wattage output.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-03 16:44:50 UTC
From: martin
Topic: 22263 Message: 22282

Hi Guys. You should ALWAYS tune up the transceiver into a dummy load!

TTYL

marcus_leatham wrote:

> To use an auto-tuner, I first would use a dummy load and tune up
> your rig on the freq you want to use.

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
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at http://www.defectivebydesign.org/what_is_drm"

22283. RE: [TS-520_820_530_830] Re: TS-820s and wattage output.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-03 16:47:36 UTC
From: Greg Anders
Topic: 22263 Message: 22283

Especially when trying to establish a baseline for troubleshooting power output problems. Using an antenna is like trying to wash your windows with chicken lard.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of martin
Sent: Thursday, September 03, 2009 9:45 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: TS-820s and wattage output.

Hi Guys. You should ALWAYS tune up the transceiver into a dummy load!

TTYL

marcus_leatham wrote:

> To use an auto-tuner, I first would use a dummy load and tune up
> your rig on the freq you want to use.

--
CUL8R

KBOHAE kb0hae@...<mailto:kb0hae%40mchsi.com> Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

[Non-text portions of this message have been removed]

22284. TS-520 Available in N. Florida

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-03 18:32:13 UTC
From: Shawn Jones
Topic: 22284 Message: 22284

Hello everyone,

My name is Shawn, KJ4KNW, and I need to send my 520 to a better home. I bought this rig from a fellow ham after I earned my ticket earlier this year. I have made many contacts with this rig and learned a lot in the process. As far as I can tell it functions great, but with anything this old there are a few issues. There is an intermittent connection to the lights above the VFO, they don't cause any issues other than sometimes their on, sometimes not. The clips that hold the cover over the side adjustments are bad, the cover stays in place, but will fall open as soon as the radio is moved. The radio itself seems to be fine, and looks pretty good for it's age. I have the manual and service manual.

Here is my story. I have recently moved back to Florida due to a divorce (not because of the radio), and have been forced to start over. I went ahead and enrolled full time into the college here in Gainesville. As a veteran, I used the new GI Bill to pay for my school. This new bill includes book allowances, and a monthly allowance to live on. Many students including myself were told that the checks for our expenses were to arrive earlier in the week. When they didn't, I called the VA and was told that they are backed up in paperwork and I should receive my first payment in 8 weeks! The xyl made sure to clean out the account (and then some) so without the VA, I'm up the river. I also have to commute 45miles into school. 90miles a day has taken it toll on the cash that I had. I don't have money for books (for the classes that I started last week), I don't have money for my additional supplies, or for the gas to get me there. The only thing that I have left is my dog, that radio, and an apology from the VA. Unfortunately, I tried buying gas, books, and a backpack with an apology, and it didn't work.

The reason I gave you all that info is so you can get an idea of the mind frame that I am in right now. Divorce, custody, money, and school. And even for a young guy like me this is wearing me down bit by bit. I payed $275 for the radio, what I need is a thousand dollars, but thats not going to happen. If you are interested (please be interested) just make a reasonable offer, I would prefer someone local so that this can be done quick and easy, I really needed the money last week. If anyone is interested please feel free to email me.

Thanks everyone and 73,
Shawn
shawnjones20@...

22285. Re: Question about tones on receive

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-03 03:41:53 UTC
From: unnorml
Topic: 22270 Message: 22285

Bob,

Is the tone showing up every 25KHz?
Sounds like your getting the 25KHz calibration tone.
Check to see if your function is set to 25KHz.
If so, switch to VFO it should go away.
That's the only thing I can think of.

Mike - KI4FDH

--- In TS-520_820_530_830@yahoogroups.com, Bob Singer <aztrooper@...> wrote:
>
> Without being able to make sounds on this group, all I can describe it
> as a whistle. It will start at a low frequency and to up to a high
> frequency as you initially find it, and then go a few more khz through
> the frequency band. Right now, I'm on 14.195 mhz and as I tune up in
> frequency, the tone starts out goes from a high pitch to a low pitch and
> then nothing at 14.199. Does it again at 14.211 to 14.215. They are
> all over the band and others. Just wondering what it is. Bob
>
> Dave ve3wej wrote:
> >
> >
> > ok, but unless I missed it, you still need to be more specific. there
> > is psk
> > and rtty around 7030 (or so), rtty, psk,amtor, and other around 7070-7100,
> > and voice above 7100-7300 for amateurs, also digital sstv at 7173.... and
> > sstv at 7175?? 7178???
> >
> > so you see, we need more spefic as to what you are hearing....
> > and what mode you are hearing it in, am,lsb,usb you get the idea
> >
> > ----- Original Message -----
> > From: "Bob Singer" <aztrooper@...
> > <mailto:aztrooper%40sbcglobal.net>>
> > To: <TS-520_820_530_830@...m
> > <mailto:TS-520_820_530_830%40yahoogroups.com>>
> > Sent: Wednesday, September 02, 2009 8:24 PM
> > Subject: Re: [TS-520_820_530_830] Question about tones on receive
> >
> > > Yea, sorry. I'm new. I've heard them on 40 but the freqs I indicated
> > > are 20M. Bob
> > >
> > > Dave ve3wej wrote:
> > >>
> > >>

> > >> >I have heard them when I was little also listening on my BC 348R
> > in the
> > >> > 60's. Right now, I hear them on 40M between 14.100 through say
> > 14.300.
> > >>
> > >> 14.100 to 14.300 is actually 20 meters, but at that low end it could
> > >> be as I
> > >> said, rtty, packet,
> > >> 14140 usb national calling freq (phone) in Canada
> > >> 14230 sstv
> > >> 14233 sstv and digital sstv
> > >>
> > >> the rest on usb could be anything
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> > > Yahoo! Groups Links
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22286. Re: [TS-520_820_530_830] Re: Question about tones on receive

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-03 20:08:39 UTC
From: Bob Singer
Topic: 22270 Message: 22286

No, it is not. The function switch is in the VFO mode. Bob

unnorml wrote:
>
>
> Bob,
>
> Is the tone showing up every 25KHz?
> Sounds like your getting the 25KHz calibration tone.
> Check to see if your function is set to 25KHz.
> If so, switch to VFO it should go away.
> That's the only thing I can think of.
>
> Mike - KI4FDH
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, Bob Singer
> <aztrooper@...> wrote:
> >
> > Without being able to make sounds on this group, all I can describe it
> > as a whistle. It will start at a low frequency and to up to a high
> > frequency as you initially find it, and then go a few more khz through
> > the frequency band. Right now, I'm on 14.195 mhz and as I tune up in
> > frequency, the tone starts out goes from a high pitch to a low pitch
> and
> > then nothing at 14.199. Does it again at 14.211 to 14.215. They are
> > all over the band and others. Just wondering what it is. Bob
> >
> > Dave ve3wej wrote:
> > >
> > >
> > > ok, but unless I missed it, you still need to be more specific. there
> > > is psk
> > > and rtty around 7030 (or so), rtty, psk,amtor, and other around
> 7070-7100,
> > > and voice above 7100-7300 for amateurs, also digital sstv at
> 7173.... and
> > > sstv at 7175?? 7178???
> > >
> > > so you see, we need more spefic as to what you are hearing....
> > > and what mode you are hearing it in, am,lsb,usb you get the idea
> > >
> > > ----- Original Message -----
> > > From: "Bob Singer" <aztrooper@...
> > > <mailto:aztrooper%40sbcglobal.net>>

> > > To: <TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > > <mailto:TS-520_820_530_830%40yahoogroups.com>>
> > > Sent: Wednesday, September 02, 2009 8:24 PM
> > > Subject: Re: [TS-520_820_530_830] Question about tones on receive
> > >
> > > > Yea, sorry. I'm new. I've heard them on 40 but the freqs I indicated
> > > > are 20M. Bob
> > > >
> > > > Dave ve3wej wrote:
> > > >>
> > > >>
> > > >> >I have heard them when I was little also listening on my BC 348R
> > > in the
> > > >> > 60's. Right now, I hear them on 40M between 14.100 through say
> > > 14.300.
> > > >>
> > > >> 14.100 to 14.300 is actually 20 meters, but at that low end it
> could
> > > >> be as I
> > > >> said, rtty, packet,
> > > >> 14140 usb national calling freq (phone) in Canada
> > > >> 14230 sstv
> > > >> 14233 sstv and digital sstv
> > > >>
> > > >> the rest on usb could be anything
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> > > > Yahoo! Groups Links
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22287. RE: [TS-520_820_530_830] Re: Question about tones on receive

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-03 20:36:58 UTC
From: Dick Merryman
Topic: 22270 Message: 22287

There are lots of mysterious carriers on most of the bands. As you tune past these carriers the pitch changes. Could this be what Bob is encountering?

-Dick-
N3XRU

_____

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Bob Singer
Sent: Thursday, September 03, 2009 1:09 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: Question about tones on receive

No, it is not. The function switch is in the VFO mode. Bob

unnorml wrote:
>
>
> Bob,
>
> Is the tone showing up every 25KHz?
> Sounds like your getting the 25KHz calibration tone.
> Check to see if your function is set to 25KHz.
> If so, switch to VFO it should go away.
> That's the only thing I can think of.
>
> Mike - KI4FDH
>
> --- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, Bob Singer
> <aztrooper@...> wrote:
> >
> > Without being able to make sounds on this group, all I can describe it
> > as a whistle. It will start at a low frequency and to up to a high
> > frequency as you initially find it, and then go a few more khz through
> > the frequency band. Right now, I'm on 14.195 mhz and as I tune up in
> > frequency, the tone starts out goes from a high pitch to a low pitch
> and
> > then nothing at 14.199. Does it again at 14.211 to 14.215. They are
> > all over the band and others. Just wondering what it is. Bob
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> > Dave ve3wej wrote:
> > >

> > >
> > > ok, but unless I missed it, you still need to be more specific. there
> > > is psk
> > > and rtty around 7030 (or so), rtty, psk,amtor, and other around
> 7070-7100,
> > > and voice above 7100-7300 for amateurs, also digital sstv at
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> > >
> > > so you see, we need more spefic as to what you are hearing....
> > > and what mode you are hearing it in, am,lsb,usb you get the idea
> > >
> > > ----- Original Message -----
> > > From: "Bob Singer" <aztrooper@...
> > > <mailto:aztrooper%40sbcglobal.net>>
> > > To: <TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > > <mailto:TS-520_820_530_830%40yahoogroups.com>>
> > > Sent: Wednesday, September 02, 2009 8:24 PM
> > > Subject: Re: [TS-520_820_530_830] Question about tones on receive
> > >
> > > > Yea, sorry. I'm new. I've heard them on 40 but the freqs I indicated
> > > > are 20M. Bob
> > > >
> > > > Dave ve3wej wrote:
> > > >>
> > > >>
> > > >> >I have heard them when I was little also listening on my BC 348R
> > > in the
> > > >> > 60's. Right now, I hear them on 40M between 14.100 through say
> > > 14.300.
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> > > >> 14.100 to 14.300 is actually 20 meters, but at that low end it
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> > > >> be as I
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> > > >> 14140 usb national calling freq (phone) in Canada
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> > > >> the rest on usb could be anything
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22288. RE: [TS-520_820_530_830] Re: Question about tones on receive

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-03 20:50:30 UTC
From: Greg Anders
Topic: 22270 Message: 22288

There could also be a Plasma TV in his neighborhood causing dirty carrier type interference at regular intervals across the band.

Greg

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Dick Merryman
Sent: Thursday, September 03, 2009 1:37 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: RE: [TS-520_820_530_830] Re: Question about tones on receive

There are lots of mysterious carriers on most of the bands. As you tune
past these carriers the pitch changes. Could this be what Bob is
encountering?

-Dick-
N3XRU

From: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com> [mailto:TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of Bob Singer
Sent: Thursday, September 03, 2009 1:09 PM
To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
Subject: Re: [TS-520_820_530_830] Re: Question about tones on receive

No, it is not. The function switch is in the VFO mode. Bob

unnorml wrote:
>
>
> Bob,
>
> Is the tone showing up every 25KHz?
> Sounds like your getting the 25KHz calibration tone.
> Check to see if your function is set to 25KHz.
> If so, switch to VFO it should go away.
> That's the only thing I can think of.
>
> Mike - KI4FDH
>
> --- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com<mailto:830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com>, Bob Singer
> <aztrooper@...> wrote:
> >

> > Without being able to make sounds on this group, all I can describe it
> > as a whistle. It will start at a low frequency and to up to a high
> > frequency as you initially find it, and then go a few more khz through
> > the frequency band. Right now, I'm on 14.195 mhz and as I tune up in
> > frequency, the tone starts out goes from a high pitch to a low pitch
> and
> > then nothing at 14.199. Does it again at 14.211 to 14.215. They are
> > all over the band and others. Just wondering what it is. Bob
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> > Dave ve3wej wrote:
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> > >
> > > ok, but unless I missed it, you still need to be more specific. there
> > > is psk
> > > and rtty around 7030 (or so), rtty, psk,amtor, and other around
> 7070-7100,
> > > and voice above 7100-7300 for amateurs, also digital sstv at
> 7173.... and
> > > sstv at 7175?? 7178???
> > >
> > > so you see, we need more spefic as to what you are hearing....
> > > and what mode you are hearing it in, am,lsb,usb you get the idea
> > >
> > > ----- Original Message -----
> > > From: "Bob Singer" <aztrooper@...
> > > <mailto:aztrooper%40sbcglobal.net>>
> > > To: <TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com<mailto:830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > > <mailto:TS-520_820_530_830%40yahoogroups.com>>
> > > Sent: Wednesday, September 02, 2009 8:24 PM
> > > Subject: Re: [TS-520_820_530_830] Question about tones on receive
> > >
> > > > Yea, sorry. I'm new. I've heard them on 40 but the freqs I indicated
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> > > >> >I have heard them when I was little also listening on my BC 348R
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> > > 14.300.
> > > >>
> > > >> 14.100 to 14.300 is actually 20 meters, but at that low end it
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> > > > Yahoo! Groups Links
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22289. Re: Question about tones on receive

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-03 21:45:43 UTC
From: w5rkl
Topic: 22270 Message: 22289

Disconnect the antenna. If the noise is no longer heard when tuning, the source of the noise is not in the radio.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Greg Anders <greg.anders@...> wrote:
>
> There could also be a Plasma TV in his neighborhood causing dirty carrier type interference at regular intervals across the band.
>
> Greg
>
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Dick Merryman
> Sent: Thursday, September 03, 2009 1:37 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: RE: [TS-520_820_530_830] Re: Question about tones on receive
>
>
>
> There are lots of mysterious carriers on most of the bands. As you tune
> past these carriers the pitch changes. Could this be what Bob is
> encountering?
>
> -Dick-
> N3XRU
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> [mailto:TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of Bob Singer
> Sent: Thursday, September 03, 2009 1:09 PM
> To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> Subject: Re: [TS-520_820_530_830] Re: Question about tones on receive
>
> No, it is not. The function switch is in the VFO mode. Bob
>
> unnorml wrote:
> >
> >
> > Bob,
> >
> > Is the tone showing up every 25KHz?

> > Sounds like your getting the 25KHz calibration tone.
> > Check to see if your function is set to 25KHz.
> > If so, switch to VFO it should go away.
> > That's the only thing I can think of.
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> > Mike - KI4FDH
> >
> > --- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> 830@yahoogroups.com<mailto:830%40yahoogroups.com>
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, Bob Singer
> > <aztrooper@> wrote:
> > >
> > > Without being able to make sounds on this group, all I can describe it
> > > as a whistle. It will start at a low frequency and to up to a high
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> > > then nothing at 14.199. Does it again at 14.211 to 14.215. They are
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> > > Dave ve3wej wrote:
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> > > > ok, but unless I missed it, you still need to be more specific. there
> > > > is psk
> > > > and rtty around 7030 (or so), rtty, psk,amtor, and other around
> > 7070-7100,
> > > > and voice above 7100-7300 for amateurs, also digital sstv at
> > 7173.... and
> > > > sstv at 7175?? 7178???
> > > >
> > > > so you see, we need more spefic as to what you are hearing....
> > > > and what mode you are hearing it in, am,lsb,usb you get the idea
> > > >
> > > > ----- Original Message -----
> > > > From: "Bob Singer" <aztrooper@
> > > > <mailto:aztrooper%40sbcglobal.net>>
> > > > To: <TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> 830@yahoogroups.com<mailto:830%40yahoogroups.com>
> > <mailto:TS-520_820_530_830%40yahoogroups.com>
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> > > > > Dave ve3wej wrote:
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> > > > >>
> > > > >> >I have heard them when I was little also listening on my BC 348R
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> > > > >> > 60's. Right now, I hear them on 40M between 14.100 through say
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> > > > >>
> > > > >> 14.100 to 14.300 is actually 20 meters, but at that low end it
> > could
> > > > >> be as I
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> > > > >> 14140 usb national calling freq (phone) in Canada
> > > > >> 14230 sstv
> > > > >> 14233 sstv and digital sstv
> > > > >>
> > > > >> the rest on usb could be anything
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> > > > > > > > > > Yahoo! Groups Links
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22290. TS 820 Cleaning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-03 22:44:19 UTC
From: blacklabpupp
Topic: 22290 Message: 22290

I have a TS 820 that is nothing more than a shelf queen. It is like new and hardly ever used. I decided to take a look inside an clean it. The fan was unpluged because it has rarely been used to transmit. My question is where do you oil it? I heard over 20 meters today that they should be oiled and a general cleaning yearly. Inside it is like new and very little dust, if any. What else should be done? I noticed a few weeks ago while listening to W1AW code bulletins, that it seemed to jump around in freq. I first thougth it was W1AW but I now think it was my rig. It does not have a digital display only analog. Not the S model. But I supect that it needs to be cleaned around the enclosed tuning cap. When I was given this rig I was told it had only be opened one time to install the CW filter. I am also thinking it might be time to explore changeing the main filter caps as well. Any advice about cleaning or anything else that should be done. I would like to keep it as new looking as possible. Gene

22291. RE: [TS-520_820_530_830] TS 820 Cleaning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-03 22:54:05 UTC
From: Greg Anders
Topic: 22290 Message: 22291

Hi Gene,

Any Kenwood transceiver that old needs a tune up.

1. Start by loosening and retightening "every" screw used to mount PC boards.

2. Remove, clean with de-oxit or alcohol every connector and re-seat them (especially the ones that plug into the boards with signal and control lines.

3. Replace all electrolytics before they short and take out costly components. I would replace the bleeder resistors across them too.

4. Clean every switch especially the band switch wafers and mode switch contacts.

5. The main tuning cap inside the vfo may have dirty wipers on the rotor ground clips which could cause frequency jump, but I wouldn't open it up until all the other stuff is done. The majority of intermittent problems in Kenwoods this old are connection related so do the easy connector cleaning and tightening circuit board mounting screws before doing a "VFO-ectomy". Your problem may just go away.

Hope this is helpful,

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of blacklabpupp
Sent: Thursday, September 03, 2009 3:44 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS 820 Cleaning

I have a TS 820 that is nothing more than a shelf queen. It is like new and hardly ever used. I decided to take a look inside an clean it. The fan was unpluged because it has rarely been used to transmit. My question is where do you oil it? I heard over 20 meters today that they should be oiled and a general cleaning yearly. Inside it is like new and very little dust, if any. What else should be done? I noticed a few weeks ago while listening to W1AW code bulletins, that it seemed to jump around in freq. I first thougth it was W1AW but I now think it was my rig. It does not have a digital display only analog. Not the S model. But I supect that it needs to be cleaned around the enclosed tuning cap. When I was given this rig I was told it had only be opened one time to install the CW filter. I am also thinking it might be time to explore changeing the main filter caps as well. Any advice about cleaning or anything else that should be done. I would like to k eep it as new looking as possible. Gene

[Non-text portions of this message have been removed]

22292. RE: [TS-520_820_530_830] TS 820 Cleaning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-03 22:56:55 UTC
From: Greg Anders
Topic: 22290 Message: 22292

Forgot one essential tip.

IF you use De-oxit to clean switches make sure you let the radio dry completely before applying power. That stuff when still liquid can definitely cause unintended shorts with AC applied.

Greg

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Greg Anders
Sent: Thursday, September 03, 2009 3:54 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: RE: [TS-520_820_530_830] TS 820 Cleaning

Hi Gene,

Any Kenwood transceiver that old needs a tune up.

1. Start by loosening and retightening "every" screw used to mount PC boards.

2. Remove, clean with de-oxit or alcohol every connector and re-seat them (especially the ones that plug into the boards with signal and control lines.

3. Replace all electrolytics before they short and take out costly components. I would replace the bleeder resistors across them too.

4. Clean every switch especially the band switch wafers and mode switch contacts.

5. The main tuning cap inside the vfo may have dirty wipers on the rotor ground clips which could cause frequency jump, but I wouldn't open it up until all the other stuff is done. The majority of intermittent problems in Kenwoods this old are connection related so do the easy connector cleaning and tightening circuit board mounting screws before doing a "VFO-ectomy". Your problem may just go away.

Hope this is helpful,

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com> [mailto:TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of blacklabpupp
Sent: Thursday, September 03, 2009 3:44 PM
To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
Subject: [TS-520_820_530_830] TS 820 Cleaning

I have a TS 820 that is nothing more than a shelf queen. It is like new and hardly ever used. I decided to take a look inside an clean it. The fan was unpluged because it has

rarely been used to transmit. My question is where do you oil it? I heard over 20 meters today that they should be oiled and a general cleaning yearly. Inside it is like new and very little dust, if any. What else should be done? I noticed a few weeks ago while listening to W1AW code bulletins, that it seemed to jump around in freq. I first thougth it was W1AW but I now think it was my rig. It does not have a digital display only analog. Not the S model. But I supect that it needs to be cleaned around the enclosed tuning cap. When I was given this rig I was told it had only be opened one time to install the CW filter. I am also thinking it might be time to explore changeing the main filter caps as well. Any advice about cleaning or anything else that should be done. I would like to k eep it as new lookin g as possible. Gene

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

22293. Freq Counter for TS 820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-04 06:55:46 UTC
From: blacklabpupp
Topic: 22293 Message: 22293

I have seen a few companys selling counters for older rigs. I have contacted them and get no real help on if their product works on the 820. Does anyone know of a counter that can be used on the 820 externally? I am not looking for one to go inside the unit. But I know something can be easily connected some way with all the counter projects out there. Also how would it be connected if I could find one. This should be easy, but I cant figure it out. Gene

22294. Re: [TS-520_820_530_830] Freq Counter for TS 820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-04 07:21:05 UTC
From: Lou Blasco
Topic: 22293 Message: 22294

Hi Gene,

Try this company.

http://www.aade.com/dfd.htm

I have one of his displays to suit my 520S and I think it will work on your 820. Drop him a line to confirm. You might need to add a preamp to boost you local oscillator.

Lou
VK3ALB

At 04:55 PM 04/09/2009, you wrote:
>I have seen a few companys selling counters for older rigs. I have >contacted them and get no real help on if their product works on the >820. Does anyone know of a counter that can be used on the 820 >externally? I am not looking for one to go inside the unit. But I >know something can be easily connected some way with all the counter >projects out there. Also how would it be connected if I could find >one. This should be easy, but I cant figure it out. Gene

22295. Re: TS 820 Cleaning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-04 10:57:29 UTC
From: w5rkl
Topic: 22290 Message: 22295

Gene,

The symptoms of VFO instability will be evident by erratic tuning when rotating the main tuning knob. This is easily seen if the 820 has the digital display installed, the digital display will be erratic while tuning the VFO. To eliminate this problem, the VFO's variable capacitor shaft to frame connection inside the VFO requires cleaning. You do NOT have to remove the VFO to do this!

The VFO has a small metal plate on the right side of the VFO enclosure. Remove one screw and loosen the other. Rotate the plate to gain access to the variable capacitor's shaft to frame connection. Apply a small amount of contact cleaner to the affected area then rotate the VFO from 0 to 500 and back a few times. Use canned air, available at Walmart in the computer department, and direct the air flow at the connection. This removes excess contact cleaner. Wait 3 to 5 minutes (see warning/caution on the contact cleaner can label) before applying power. Check the VFO's stability when tuning. Repeat if necessary.

Next thing is to check and, if necessary, adjust the 3.3VDC and 9VDC supplies. Allow the 820 to warm up for 30 minutes before performing the following voltage checks and adjustments. Since the 820 is quite old, components age resulting in changes. More than likely the 3.3VDC and 9VDC voltage will "drift" upward. This is the result of aging D5 (6.2VDC zener) and Q7 transistor on the AF UNIT.

To check and adjust the 2 voltages, remove the top and bottom covers, turn the 820 upside down with the front panel facing you.

The 3.3VDC and 9VDC supplies are located on the AF UNIT.

The AF UNIT is the small PC board in the middle, directly behind the front panel.

There are 2 plugs along the front of the AF UNIT labeled "AF1" and "AF2". AF1 is on the left and AF2 on the right. Plug pin numbering is from right to left, 1 thru 6.

To measure the voltages, use a small gauge (diameter) piece of wire inserted into the plug where the wire enters the plug. Be careful not to "force" the wire since you could damage the wire connection to the plug's female receptacle.

Connect a DC voltage meter's positive lead to the wire in pin 1 of AF1, negative lead to chassis ground. The voltage should be 9VDC. If it is not then adjust VR4, located in the middle of the AF UNIT, for a 9VDC +/- .05VDC reading. Do NOT adjust the light colored pot, that is the "RIT" pot. Use a plastic flat blade adjusting tool to adjust VR4. A metal screw driver could result in a short, possibly damaging surrounding components.

Move the DC meter's positive probe and short piece of wire to plug AF2 pin 6. The voltage should be 3.3VDC +/- .05VDC. If it is not, adjust VR1 located between plugs AF1 and AF2 for 3.3VDC.

It is important to adjust the 9VDC "first". If you adjust the 3.3VDC first followed by adjusting the 9VDC, the 3.3VDC voltage level will then be "wrong"!

The 9VDC provides power for the internal and external VFOs. The VFO's 9VDC power source flows through the FUNCTION switch wafer S5-3 and to the rear 9 pin remote VFO socket, pin 9. If the remote VFO-820 is not plugged into the 9 pin socket, a connection MUST exist between pins 8 and 9 in order for power to be applied to the internal VFO. With the connection between pins 8 and 9 and the remote VFO-820 is not used, the internal VFO will not work, resulting in a "dead" TS-820, no receive and not transmit.

There are 2 small black can capacitor on the top left rear of the 820 chassis. These are the filter capacitors for the LV supply (300A, 210A and 210B). Each can has "2" 22ufd 450VDC internal capacitors. There are no direct replacements for the 2 canned capacitors. I replaced both cans with 4 radial lead 22ufd 450VDC capacitors mounted and soldered to a single terminal strip, under the chassis.

The Rectifier Unit, located on the bottom of the 820. With the 820 upside down, front panel facing you, the Rectifier Unit is located to the "left" of the power transformer. There are "2" 33ufd 160VDC axial lead capacitors mounted on the Rectifier Unit PC board. These are the "bias" supply (-C) filter capacitors. These should be replaced! A failure in the bias supply WILL affect the final tubes and WILL result in high current flowing in the final tube in transmit, regardless of the MODE switch setting. When this occurs, the final tube plates will glow "RED" which can lead to damaging the final tubes and blowing the fuse.

The final tube's HV filter capacitors are located directly behind the internal VFO. Each capacitor is a 100ufd 500VDC electrolytic. Each capacitor has a 470K 1/2 watt resistor and a .01ufd 500VDC disc capacitor connected across each capacitor's terminals. Age can and will affect these 2 HV filter capacitors. K4EAA has a replacement kit for the HV filter capacitors. I recommend replacing both capacitors along with the 470K 1/2 watt resistor and .01uf capacitors. Pay close attention when replacing these capacitors since they are wired in "series" in a voltage "doubling" supply. Wiring these capacitors backwards or incorrectly can result in permanent damage to the new capacitors and possible damage to the power transformer and surrounding components.

The Relay Unit, located on the bottom of the 820 chassis, has "2" 2200ufd 25VDC radial lead filter capacitors. These capacitors are the filter capacitors for the "14VDC" supply. The 14VDC supply is the source voltage for the AF UNIT's "9VDC" and "3.3VDC" supplies. A failure (short) in one or both of the 2200ufd 25VDC filter capacitors will result in a complete loss of voltage from the 14VDC supply resulting in zero 9VDC and 3.3VDC voltages. Replace both capacitors.

If, after completing the above suggested replacements and adjustments, you find there is no ALC indication in TUNE mode, replace both R5 and R6 on the HV Unit.

These are the most important capacitor and resistor replacements as well as voltage adjustments in the aging 820. Use standard safety precautions when performing these tasks. The 820 has voltage inside that can kill you! Be SAFE!!

I always recommend using canned air, again, available at Walmart, to remove excess contact cleaner. Contact cleaner is flammable and it only takes a small spark to ignite it. Always follow the warnings/cautions on the cleaner's can label! Use only enough cleaner to perform the job, a small amount goes a long way. Do NOT soak or use excessive contact cleaner, a small amount goes a long way!

There are other areas that may require cleaning such as the "sandwiched" PLL, CAR, and, if installed, the COUNTER ASSY UNIT PC board assemblies which require removal of each

enclosures and the internal fixed connecting pins cleaned with contact cleaner.

As previously stated, a number of the problems with the hybrids can be eliminated by simply cleaning. If the steps outlined appear to be more than you feel comfortable doing, may I suggest obtaining the services of a local ham who has the skills to help you with these steps.

73's
Mike W5RKL

22296. Re: [TS-520_820_530_830] Freq Counter for TS 820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-04 13:48:49 UTC
From: Dennis Windle
Topic: 22293 Message: 22296

Gene
Check out what www.aade.com has.
D.Windle
----- Original Message -----
From: blacklabpupp
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, September 04, 2009 2:55 AM
Subject: [TS-520_820_530_830] Freq Counter for TS 820

I have seen a few companys selling counters for older rigs. I have contacted them and get no real help on if their product works on the 820. Does anyone know of a counter that can be used on the 820 externally? I am not looking for one to go inside the unit. But I know something can be easily connected some way with all the counter projects out there. Also how would it be connected if I could find one. This should be easy, but I cant figure it out. Gene

[Non-text portions of this message have been removed]

22297. 830s for sale...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-04 13:42:49 UTC
From: ke1lg
Topic: 22297 Message: 22297

I have a TS 830S, Serial # 2110605 for sale. Very nice shape. Loaded with filters: YG-455C, YK 88C, YK 8851 ssb, 455 khz ceramic. Recently back from Ken, K4EAA, with complete alignment, brass shaft coupler, complete check-up. Everything works, full output all bands. I have used this radio most qrp/cw. Includes paperwork from Ken, original manual and Service manual. 475.00, + USPS shipping to you from Maine.

hanson@...

Tnx,
Steve in Maine
ke1lg

22298. One more...Kenwood MC-50 Mic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-04 13:46:57 UTC
From: ke1lg
Topic: 22298 Message: 22298

Kenwood MC-50 Mic, excellent condition, with Kenwood cable. Used with my 830S.
100.00+shipping from Maine.

hanson@...

Steve in Maine
ke1lg

22299. VFO 240 for sale...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-04 13:45:04 UTC
From: ke1lg
Topic: 22299 Message: 22299

I have a Kenwood VFO 240, with cable, very nice condition. Much reliable than the VFO-230...(Ken, K4EAA uses the 240!)

150.00 + shipping USPS from Maine

Tnx,
Steve in Maine

22300. TS-830S front panel -- need help

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-04 14:57:12 UTC
From: gperazzoli
Topic: 22300 Message: 22300

Hello,

I've found a TS-830S front panel on ebay, but the seller wouldn't ship it outside the U.s.

He told me that I could buy it and ask him to send it to a friend or relative of mine in the US, but I don't have one in order to forward the package thru lowest fare US Mail to me.

Please, if someone could lend me a hand with this matter, I would really appreciate it.

Thank you in advance for your kind assistance.

Best Regards,
Guido Luis Perazzoli, LW8EOQ
ARGENTINA

PD: PM me at gperazzoli@...

22301. Re: [TS-520_820_530_830] 6 meter transverter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-04 16:43:59 UTC
From: John Davidson
Topic: 22279 Message: 22301

I had a 2M , TV502, Transverter for my TS520.
 Just save your money, or get one of the Ten Tech or Microwave Associates transverters.
They actually work.
The Recieving part of the Kenwood had a horrible conversion loss and would need a 20 dB preamp installed inside it to work at all.---
Also the 10 W output will not get you far, need a power amp to stay even with the average station.!
The 6M version may be better, maybe others will lchime in with thier experiences.
73.......JD

On Wed, 9/2/09, bornofthehorses <bornofthehorses@...> wrote:

From: bornofthehorses <bornofthehorses@...>
Subject: [TS-520_820_530_830] 6 meter transverter
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, September 2, 2009, 9:38 PM

Anyone seen a 6 meter transverter for the TS -520s available on the net?
Ken

[Non-text portions of this message have been removed]

22302. Re: TS-820s and wattage output.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-04 17:53:40 UTC
From: atm_ken_hunter
Topic: 22263 Message: 22302

If your antenna is cut to 51 feet on each side, YOU DO NOT HAVE AN 80 METER DIPOLE. You have something quite different and are trying to make it look like an 80 meter dipole by adding or subtracting reactances. The problem with this is that the setup you have is putting the reactances (your tuner) at a high voltage location along the antenna system.

An LDG tuner (or most any other tuner) would have the same problem unless it was designed for insertion into a high voltage node.

You would be better off making a better antenna. Quite possibly the existing tuner, if not damaged beyond repair, could be used if it is coupled to a proper load. Most Hybrid (tube output) radios will tune into a large variation of loads due to the Pi-Net output which is essentially itself a TUNER.

Good luck!

Ken Hunter - KB7H

--- In TS-520_820_530_830@yahoogroups.com, "trippkj4bkd" <thomasenglish3@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "marcus_leatham" <kr5n@> wrote:
> >
> > Your output wattmeter shows the total power going out.
> > If you have a 100 watt rig, the wattmeter can show more than
> > 100 watts. Why? Because there might be some reflected power
> > from the antenna, which is reflected back again at the rig, towards
> > the antenna. This power is added to your 100 watts, going out on
> > the first pass. This "reflected power gain" is a sign of a bad match
> > in your antenna system, which is not necessarily inefficient if you
> > have low-loss feedline....
> > To find the true output power of the rig, you must subtract the
> > reflected power.
> >
> > As an example,
> >
> > Let's say your rig is putting out 100 watts, and this 100 watts
> > travels out the feedline to the antenna, where 70 watts is radiated
> > and 30 watts is reflected. With lossless feedline, the 30 watts
> > comes back to the rig, and is then reflected back towards the
> > antenna, in addition to the newly added 100 watts, so your
> > power meter will read 130 watts. Now you have 130 watts
> > traveling towards the antenna and a certain portion of it returns
> > again. This is a recursive action, power bounces up and down
> > the feedline, a portion of it is radiated each time. You could end
> > up in the steady state with 130 watts indicated out of your rig,
> > 100 watts out the antenna, and 30 watts reflected. Your rig
> > is putting out 100 watts but showing 130 watts out on the meter.

> >
> > Like I say, this is due to reflections in your antenna system.
> >
> >
> > Mark Leatham
> > RCS, Inc.
> > 740-373-8811 ext 3122
> > ----- Original Message -----
> > From: trippkj4bkd
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Wednesday, September 02, 2009 1:59 AM
> > Subject: [TS-520_820_530_830] TS-820s and wattage output.
> >
> >
> > Hey Mark, Thanks for the reminder of how the SWR behaves in the antenna as to the output power of the rig and the reflected SWR adding to the output. This must be what is happening with my rig.
> It is really scary to see the power going off the scale. I need a new tunner I think mine is defective and was considering getting an LDG auto tuner. Has any one had sucess with thees tuners using a Kenwood hybrid rig. I was told by a fellow ham that the LDG's would not work as well with the hybrid rigs like the MFJ 969. I Have an 80 meter dipole cut to 51 feet each leg fed to a Balun Designs 1 to 1 balun and then fed about 30 feet on RG8X down to rig and tuner. I know that this is not the Antenna Group but maybe some quick thoughts about the tunabllity of such a setup,as I have had a whole lot of problems lately with the tuner and arching over and burning one of the antenna inputs on the tuner as where it attaches to the circuit board on the tuner. I should be able to tune the rig with the 80 meter dipole but the tuner is getting worse and worse. This tuner once did the job. Of course it was second or third hand tuner and am not sure what it was put thru before I had it.Sorry for rambling on so long. But I am getting discouraged with the whole setup. But I still love HAM Radio and Kenwood hybrids.
>

22303. Re: TS 820 Cleaning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-05 03:35:02 UTC
From: blacklabpupp
Topic: 22290 Message: 22303

Thanks so uch for all the advice. After reading the posts I decided to take a looking into the one I use. I came across some problems that I must attend to now. If I tap or move the AF board the 9volt jumps around. It certainly is not stable. I am guessing that the regulator and VR4 are faulty. Why not replace the VR with carbon resistors. During measurments I get different readings on the Ohm meter. I am not sure what to replace it with. Does anyone know off hand what the resistance should be? The page I downloaded is not clear. On the IF board a I cannot even read the voltages because someone blacked them out or poorly scanned. I also noticed the 2200uf caps 23 and 24 I believe, have a small buldge in one. The connectors all seem to be ok. I cleaned most of them today. After opening the one I use I am somewhat afraid to open the unused one. I guess I should just order a complete replacement or caps and some resistors. While I am taking on this project which transistors should be replaced? All or some or most? I plan on getting new voltage regulators to say the least. Thanks for all the advice because it came in handy and very useful. All the best Gene

22304. Re: TS 820 Cleaning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-05 03:37:14 UTC
From: blacklabpupp
Topic: 22290 Message: 22304

Thanks so uch for all the advice. After reading the posts I decided to take a looking into the one I use. I came across some problems that I must attend to now. If I tap or move the AF board the 9volt jumps around. It certainly is not stable. I am guessing that the regulator and VR4 are faulty. Why not replace the VR with carbon resistors. During measurments I get different readings on the Ohm meter. I am not sure what to replace it with. Does anyone know off hand what the resistance should be? The page I downloaded is not clear. On the IF board a I cannot even read the voltages because someone blacked them out or poorly scanned. I also noticed the 2200uf caps 23 and 24 I believe, have a small buldge in one. The connectors all seem to be ok. I cleaned most of them today. After opening the one I use I am somewhat afraid to open the unused one. I guess I should just order a complete replacement or caps and some resistors. While I am taking on this project which transistors should be replaced? All or some or most? I plan on getting new voltage regulators to say the least. Thanks for all the advice because it came in handy and very useful. All the best Gene

22305. Re: TS 820 Cleaning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-05 14:17:36 UTC
From: w5rkl
Topic: 22290 Message: 22305

> I came across some problems that I must attend to now. If I tap or
> move the AF board the 9volt jumps around. It certainly is not
> stable. I am guessing that the regulator and VR4 are faulty.

No, not necessarily Gene. A loose connection can produce this symptom. A dirty VR4 can also produce the same unstable symptoms. The AF UNIT's ground returns are through the board's mounting hardware (screws). If one or more of the screws are loose, any vibration can result in an unstable ground which will lead to the symptoms you are experiencing.

> Why not replace the VR with carbon resistors.

If you do that then the 9VDC and 3.3VDC cannot be adjusted. In addition, installing the exact resistance required for the 3.3VDC and 9VDC, +/- .05VDC, will be quite difficult, if not impossible, leading to improper 3.3VDC and 9VDC supply voltages! Not a good idea!

Age can result in corrosion build up on VR4 which can result in the symptoms with VR4 you are seeing. Cleaning the pot with contact cleaner should be done first before even considering replacing VR4.

> I also noticed the 2200uf caps 23 and 24 I believe, have a small
> buldge in one.

If a capacitor has a bulge then it should be replaced regardless whether it checks OK on a capacitor checker or not! The bulge indicates excessive heat build up inside the capacitor.

> While I am taking on this project which transistors should be replaced?

Until there is evidence a transistor is bad, there is no need to replace any transistors.

73's
Mike W5RKL

22306. Re: TS-820 with low garbled output on SSB.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-05 05:13:54 UTC
From: vk2vzz
Topic: 22262 Message: 22306

Well I've now tried a borrowed MC-50 and my MD-100 after a made up a cable. Both Mics give similar results. Very low transmit power. And if I turn the compressor on. Then nil output. So it looks like the problem was not the MIC. Looks like the rig is the problem. The meter I'm using has a PEP wattage indicator which appears reasonably accurate when my Yaesu FT-450 transmits. However, the most I can see indicated with the TS-820 with 1500hz tone into the MIC is about 20 Watts. Speech is lucky to move the needle unless I speak loudly against the mic.

Any suggestions on where to check first? I was thinking somewhere on the IF board in the MIC Gain circuit. However, any suggestions are welcome.

Greg

--- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@...> wrote:
>
> Hi Greg. Definitely try another mic on the radio! While I cannot
> seem to find out the exact impedance of the GM4 element, most Heil
> elements are low impedance dynamic elements. The do say that the GM5V
> is for radio requiring high impedance mics.
>
> I have heard many Heil mics in on air comparisons, and have not been
> impressed with them.
>
> What type of meter are you using to measure the output of the radio?
> Most watt-meters will not read true SSB power. For example, the meter
> in my MFJ-941D tuner only reads 20-25 watts on SSB when I am speaking
> normally into the mic (with the mic gain set according to the manual).
> This is mainly because the meter needle does not move fast enough.
> Now if I whistle into the mic in SSB mode (into a dummy load of
> course!), I see the same output power as I do in CW mode.
>
> I would make sure to follow the instructions in the manual to tune up
> the radio (into a dummy load), and also follow the instructions as to
> how to set the mic gain.
>
> Another possibility is that you have some RF getting into the mic at
> some point.
>
> TTYL
>
> vk2vzz wrote:
> > I have picked up a TS-820 which appears in pretty good condition.
> > However it has a strange problem with ssb transmit.
> >
> > Carrier transmit power on CW appears good at around 100W on 80m.
> > However, when I transmit on SSB I'm lucky to peak at 30W with

> > garbled audio.
> >
> > Also the Compressor does not appear to function either. I'm trying
> > to drive it with a Heil GM-4 which is the only mic I have with a
> > 4-pin Mic connector. My next step was to try and find someone with
> > an MC-50 and try that out.
> >
> > Regards,
> >
> > Greg
> >
> >
>
> --
> CUL8R
>
> KBOHAE kb0hae@... Martin Campbell
>
> A Satisfied Sidux Linux user! To get Sidux go to:
> www.sidux.com/index.html
> "Protect your digital freedom and privacy, eliminate DRM, learn more
> at http://www.defectivebydesign.org/what_is_drm"
>

22307. Re: TS-820 with low garbled output on SSB.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-05 18:17:44 UTC
From: w5rkl
Topic: 22262 Message: 22307

Greg,

I would follow/trace the audio signal starting at the IF UNIT's plug 7 pin 1 working my way through the speech amplifier Q19, Q20, Q21, and up to the balance modulator (diodes D29 thru D32) using an oscilloscope.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "vk2vzz" <greglee@...> wrote:
>
> Well I've now tried a borrowed MC-50 and my MD-100 after a made up a cable. Both Mics give similar results. Very low transmit power. And if I turn the compressor on. Then nil output. So it looks like the problem was not the MIC. Looks like the rig is the problem. The meter I'm using has a PEP wattage indicator which appears reasonably accurate when my Yaesu FT-450 transmits. However, the most I can see indicated with the TS-820 with 1500hz tone into the MIC is about 20 Watts. Speech is lucky to move the needle unless I speak loudly against the mic.
>
> Any suggestions on where to check first? I was thinking somewhere on the IF board in the MIC Gain circuit. However, any suggestions are welcome.
>
> Greg
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@> wrote:
> >
> > Hi Greg. Definitely try another mic on the radio! While I cannot
> > seem to find out the exact impedance of the GM4 element, most Heil
> > elements are low impedance dynamic elements. The do say that the GM5V
> > is for radio requiring high impedance mics.
> >
> > I have heard many Heil mics in on air comparisons, and have not been
> > impressed with them.
> >
> > What type of meter are you using to measure the output of the radio?
> > Most watt-meters will not read true SSB power. For example, the meter
> > in my MFJ-941D tuner only reads 20-25 watts on SSB when I am speaking
> > normally into the mic (with the mic gain set according to the manual).
> > This is mainly because the meter needle does not move fast enough.
> > Now if I whistle into the mic in SSB mode (into a dummy load of
> > course!), I see the same output power as I do in CW mode.
> >
> > I would make sure to follow the instructions in the manual to tune up

> > the radio (into a dummy load), and also follow the instructions as to
> > how to set the mic gain.
> >
> > Another possibility is that you have some RF getting into the mic at
> > some point.
> >
> > TTYL
> >
> > vk2vzz wrote:
> > > I have picked up a TS-820 which appears in pretty good condition.
> > > However it has a strange problem with ssb transmit.
> > >
> > > Carrier transmit power on CW appears good at around 100W on 80m.
> > > However, when I transmit on SSB I'm lucky to peak at 30W with
> > > garbled audio.
> > >
> > > Also the Compressor does not appear to function either. I'm trying
> > > to drive it with a Heil GM-4 which is the only mic I have with a
> > > 4-pin Mic connector. My next step was to try and find someone with
> > > an MC-50 and try that out.
> > >
> > > Regards,
> > >
> > > Greg
> > >
> > >
> >
> > --
> > CUL8R
> >
> > KBOHAE kb0hae@ Martin Campbell
> >
> > A Satisfied Sidux Linux user! To get Sidux go to:
> > www.sidux.com/index.html
> > "Protect your digital freedom and privacy, eliminate DRM, learn more
> > at http://www.defectivebydesign.org/what_is_drm"
> >
>

22308. Maintenance turns into death.TS-830S 12 volt buss supply

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-05 18:39:49 UTC
From: ki6nda
Topic: 22308 Message: 22308

Greetings,

I've killed my TS-830S. I'm hoping I may be guided to a repair.

What happened...

The rig has been stored about 3 months. Before that, it had worked great. No issues except needing alignment of the coil pack unit, which I've been putting off. And the PBT pot needed cleaning. Also the meter didn't register in the COMP position. After hooking it back up, I decided to clean that pot, and tighten the boards. This had cured the meter issue in the past. I used Deoxit on the pot, blew out the dust, and loosened and retighened the boards. Hooked everything back up, and was dismayed to find the only thing to light up was the meter. All functions are dead. I've killed it. This is the recent history.

Covers off, DVM in hand...

TP6 on the AF board reads 0 volts. So...

14.4 VAC on Pins AC14 read at the rectifier board.

0 volts on Pin G14 at the rectifier board.

19.2 volts DC on Pin 14A at the rectifier board.

Have I toasted Q30 and Q34 on the AF board? Any coaching would be greatly appreciated!

Thanks in advance,

73s, Jerry KI6NDA

22309. Re: 6 meter transverter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-06 00:50:40 UTC
From: unnorml
Topic: 22279 Message: 22309

Ken,

There is on available on ebay.
I don't know if you have checked there yet.

http://shop.ebay.com/?_from=R40&_trksid=p3907.m38.l1313&_nkw=kenwood+tv-506&_sacat=See-All-Categories

4 days, 15 hours left on bidding as I had responded.

Good Luck and 73,

Mike - KI4FDH

--- In TS-520_820_530_830@yahoogroups.com, "bornofthehorses" <bornofthehorses@...> wrote:
>
> Anyone seen a 6 meter transverter for the TS -520s available on the net?
> Ken
>

22310. Putting life back into TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-06 01:06:09 UTC
From: whiteknight926
Topic: 22310 Message: 22310

Hi all, My Dad told me about this great group on yahoo and about all the info here so I have a few questions. I just picked up a couple of old Kenwood TS-520's for cheap and want to start using them but I have a few problems... One rig only puts out about 5 Watts so will start with the other that at least has about 85-100 watts...

The seconded one I have has a slow going time going from Trasmitt back too recieve. It just hangs there in Trasmitt and then slowly goes back too recieve. Sometimes not and if I give it a good old tap on the side of the case it finally slowly goes back too recieve. Now I know there are relays that can stick and that is what I suspect. I have a maual for it and it does say bad T/R relay. My question is "Where can one start too look for it ?? The manual say (RL2) on a bottom view and I had a spare relay and replaced it with hopefully a good one. The rig still does the same thing. Can anyone tell me where the others can be as I know what I am looking for. I just don't want to tear the whole rig apart to find it...

Help Please !!!!

73's
Dan
KC0GXY

22311. Re: [TS-520_820_530_830] Putting life back into TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-06 04:42:44 UTC
From: Dave Kalter
Topic: 22310 Message: 22311

Hi Dan, Welcome to the group!
 you are in the right place to get help with your fine old 520's!

If you look me up on QRZ (KB8OCP) you will see a pic of mine.
One is always on..I love these 520's!

Yes, the T/R Relay may be sticking, and you probably have dirty contacts on the band switch and My first impression of your description, both rigs
may do very well with a good bath.
You may find that a quick squirt of de-oxit on
the band switch-T/R relay and the front panel
controls..especialy the jjy/wwv button will help.
work the switches and buttons several times with the
power off.. give a half hour before powering back
up and give all the controls a good work-out.

Pick the worst acting 520 to start a good teardown/ cleaning. I know you said you dont want too. but
it really is the best way to get these fine rigs
in tip top shape..and you may learn to love them like we do!
 73 dave KB8OCP

--- On Sun, 9/6/09, whiteknight926 <dsellmeyer@...> wrote:

From: whiteknight926 <dsellmeyer@...>
Subject: [TS-520_820_530_830] Putting life back into TS-520
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, September 6, 2009, 1:06 AM

Hi all, My Dad told me about this great group on yahoo and about all the info here so I have a few questions. I just picked up a couple of old Kenwood TS-520's for cheap and want to start using them but I have a few problems... One rig only puts out about 5 Watts so will start with the other that at least has about 85-100 watts...

The seconded one I have has a slow going time going from Trasmitt back too recieve. It just hangs there in Trasmitt and then slowly goes back too recieve. Sometimes not and if I give it a good old tap on the side of the case it finally slowly goes back too recieve. Now I know there are relays that can stick and that is what I suspect. I have a maual for it and it does say bad T/R relay. My question is "Where can one start too look for it ?? The manual say (RL2) on a bottom view and I had a spare relay and replaced it with hopefully a good one. The rig still does the same thing. Can anyone tell me where the others can be as I know what I am looking for. I just don't want to tear the whole rig apart to find it...

Help Please !!!!

73's
Dan

KC0GXY

[Non-text portions of this message have been removed]

22312. Re: [TS-520_820_530_830] Re: 6 meter transverter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-06 13:14:57 UTC
From: William S. White
Topic: 22279 Message: 22312

I'd find out if it includes the interface cable
before bidding too much, if at all, on it. If you think the
Kenwood transverters are getting hard to find wait till you
end up with a transverter with no cable. I haven't been looking
since completing my 520S station but, I don't recall ever
seeing just the transverter cable for sale.

----- Original Message -----
From: "unnorml" <unnorml@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, September 05, 2009 8:50 PM
Subject: [TS-520_820_530_830] Re: 6 meter transverter

Ken,

There is on available on ebay.
I don't know if you have checked there yet.

http://shop.ebay.com/?_from=R40&_trksid=p3907.m38.l1313&_nkw=kenwood+tv-506&_sacat=See-All
-Categories

4 days, 15 hours left on bidding as I had responded.

Good Luck and 73,

Mike - KI4FDH

--- In TS-520_820_530_830@yahoogroups.com, "bornofthehorses"
<bornofthehorses@...> wrote:
>
> Anyone seen a 6 meter transverter for the TS -520s available on the net?
> Ken
>

22313. Re: Maintenance turns into death.TS-830S 12 volt buss supply

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-06 14:11:14 UTC
From: w5rkl
Topic: 22308 Message: 22313

Jerry,

Based on the information and voltage levels you provided, it is possible that one or both, Q30 and/or Q34, on the AF UNIT could possibly be bad.

However, before changing Q30 or Q34 on the AF UNIT, may I suggest checking filter capacitors C83 and C84 on the AF UNIT. These capacitors are are the filter capacitors for the 14VDC supply. A short in one or both capacitors can result in a failure of the 14VDC supply.

The 14VDC supply provides the "base" voltage for the 3.2VDC, 9VDC, and 12VDC supplies.

The PLL UNIT, AF UNIT, IF UNIT, COUNTER ASSY UNIT, and portions of the RF UNIT, all are powered by these LV supplies. If the 14VDC supply fails so do the other LV supplies resulting in an 830 that appears "dead" when powered on.

The dial lamps and tube filaments are powered by a separate 12VAC secondary winding of the power transformer so they will illuminate.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "ki6nda" <jergood@...> wrote:
>
>
> Greetings,
>
> I've killed my TS-830S. I'm hoping I may be guided to a repair.
>
> What happened...
>
> The rig has been stored about 3 months. Before that, it had worked
> great. No issues except needing alignment of the coil pack unit, which
> I've been putting off. And the PBT pot needed cleaning. Also the meter
> didn't register in the COMP position. After hooking it back up, I
> decided to clean that pot, and tighten the boards. This had cured the
> meter issue in the past. I used Deoxit on the pot, blew out the dust,
> and loosened and retighened the boards. Hooked everything back up, and
> was dismayed to find the only thing to light up was the meter. All
> functions are dead. I've killed it. This is the recent history.
>
> Covers off, DVM in hand...
>
> TP6 on the AF board reads 0 volts. So...
>
> 14.4 VAC on Pins AC14 read at the rectifier board.
>

> 0 volts on Pin G14 at the rectifier board.
>
> 19.2 volts DC on Pin 14A at the rectifier board.
>
> Have I toasted Q30 and Q34 on the AF board? Any coaching would be
> greatly appreciated!
>
> Thanks in advance,
>
> 73s, Jerry KI6NDA
>

22314. RE: [TS-520_820_530_830] Re: 6 meter transverter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-06 14:31:49 UTC
From: Dick Merryman
Topic: 22279 Message: 22314

Why couldn't a person make their own?

-Dick-
N3XRU

_____

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of William S. White
Sent: Sunday, September 06, 2009 6:15 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: 6 meter transverter

I'd find out if it includes the interface cable
before bidding too much, if at all, on it. If you think the
Kenwood transverters are getting hard to find wait till you
end up with a transverter with no cable. I haven't been looking
since completing my 520S station but, I don't recall ever
seeing just the transverter cable for sale.

----- Original Message -----
From: "unnorml" <unnorml@yahoo. <mailto:unnorml%40yahoo.com> com>
To: <TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com>
Sent: Saturday, September 05, 2009 8:50 PM
Subject: [TS-520_820_530_830] Re: 6 meter transverter

Ken,

There is on available on ebay.
I don't know if you have checked there yet.

http://shop.
<http://shop.ebay.com/?_from=R40&_trksid=p3907.m38.l1313&_nkw=kenwood+tv-506
&_sacat=See-All-Categories>
ebay.com/?_from=R40&_trksid=p3907.m38.l1313&_nkw=kenwood+tv-506&_sacat=See-A
ll-Categories

4 days, 15 hours left on bidding as I had responded.

Good Luck and 73,

Mike - KI4FDH

--- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com, "bornofthehorses"
<bornofthehorses@...> wrote:
>

> Anyone seen a 6 meter transverter for the TS -520s available on the net?
> Ken
>

[Non-text portions of this message have been removed]

22315. Re: Putting life back into TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-06 06:18:25 UTC
From: whiteknight926
Topic: 22310 Message: 22315

Thanks for the reply Dave. I will see if I can clear a good spot on the desk and start to clean it the best I can, Dad did the same thing on his 520 except a full complete dismantel but I agree with you with a rig over 30 some years old its is probley do for it. I am not really any expert in radio repair but I am starting to fall more for the old rigs and want to learn more about the old time radios..

73's

Dan

KC0GXY

As for the T/R relay I'll see if I can find it in the process, I
--- In TS-520_820_530_830@yahoogroups.com, Dave Kalter <kb8ocp@...>
wrote:
>
> Hi Dan, Welcome to the group!
> you are in the right place to get help with your fine old 520's!
>
> If you look me up on QRZ (KB8OCP) you will see a pic of mine.
> One is always on..I love these 520's!
>
> Yes, the T/R Relay may be sticking, and you probably have dirty
contacts on the band switch and My first impression of your description,
both rigs
> may do very well with a good bath.
> You may find that a quick squirt of de-oxit on
> the band switch-T/R relay and the front panel
> controls..especialy the jjy/wwv button will help.
> work the switches and buttons several times with the
> power off.. give a half hour before powering back
> up and give all the controls a good work-out.
>
> Pick the worst acting 520 to start a good teardown/ cleaning. I know
you said you dont want too. but
> it really is the best way to get these fine rigs
> in tip top shape..and you may learn to love them like we do!
> 73 dave KB8OCP
>
> --- On Sun, 9/6/09, whiteknight926 dsellmeyer@... wrote:
>
>
> From: whiteknight926 dsellmeyer@...
> Subject: [TS-520_820_530_830] Putting life back into TS-520
> To: TS-520_820_530_830@yahoogroups.com

> Date: Sunday, September 6, 2009, 1:06 AM
>
>
>
>
>
>
> Hi all, My Dad told me about this great group on yahoo and about all the info here so I have a few questions. I just picked up a couple of old Kenwood TS-520's for cheap and want to start using them but I have a few problems... One rig only puts out about 5 Watts so will start with the other that at least has about 85-100 watts...
>
> The seconded one I have has a slow going time going from Trasmitt back too recieve. It just hangs there in Trasmitt and then slowly goes back too recieve. Sometimes not and if I give it a good old tap on the side of the case it finally slowly goes back too recieve. Now I know there are relays that can stick and that is what I suspect. I have a maual for it and it does say bad T/R relay. My question is "Where can one start too look for it ?? The manual say (RL2) on a bottom view and I had a spare relay and replaced it with hopefully a good one. The rig still does the same thing. Can anyone tell me where the others can be as I know what I am looking for. I just don't want to tear the whole rig apart to find it...
>
> Help Please !!!!
>
> 73's
> Dan
> KC0GXY
>
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> [Non-text portions of this message have been removed]

>

22316. RE: [TS-520_820_530_830] Re: 6 meter transverter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-06 14:56:38 UTC
From: ken bolin
Topic: 22279 Message: 22316

Well if theres a design out there I would jump dead on it I love tro build gear. Yes I seen the 6m transceiver and the transverter was going to bid on both but it looks like the bidding has already went nuts. The way I do it is set a (what I will pay budget) then wait till the last few seconds to bid. If I get it cool if not it went past budget and it just was not in the cards.
Ken

--- On Sun, 9/6/09, Dick Merryman <dicko@...> wrote:

From: Dick Merryman <dicko@...>
Subject: RE: [TS-520_820_530_830] Re: 6 meter transverter
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, September 6, 2009, 7:31 AM

Why couldn't a person make their own?

-Dick-
N3XRU

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of William S. White
Sent: Sunday, September 06, 2009 6:15 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: 6 meter transverter

I'd find out if it includes the interface cable
before bidding too much, if at all, on it. If you think the
Kenwood transverters are getting hard to find wait till you
end up with a transverter with no cable. I haven't been looking
since completing my 520S station but, I don't recall ever
seeing just the transverter cable for sale.

----- Original Message -----
From: "unnorml" <unnorml@yahoo. <mailto:unnorml%40yahoo.com> com>
To: <TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com>
Sent: Saturday, September 05, 2009 8:50 PM
Subject: [TS-520_820_530_830] Re: 6 meter transverter

Ken,

There is on available on ebay.
I don't know if you have checked there yet.

http://shop.
<http://shop.ebay.com/?_from=R40&_trksid=p3907.m38.l1313&_nkw=kenwood+tv-506

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ll-Categories

4 days, 15 hours left on bidding as I had responded.

Good Luck and 73,

Mike - KI4FDH

--- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com, "bornofthehorses"
<bornofthehorses@...> wrote:
>
> Anyone seen a 6 meter transverter for the TS -520s available on the net?
> Ken
>

[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

22317. Re: [TS-520_820_530_830] Re: 6 meter transverter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-06 15:20:25 UTC
From: ken bolin
Topic: 22279 Message: 22317

Thats the problem with alot of the stuff on eay they sell the manual in 1 bidding then stuff like cables in another then the main item in yet another.
Ken

--- On Sun, 9/6/09, William S. White <wwhite01@...> wrote:

From: William S. White <wwhite01@...>
Subject: Re: [TS-520_820_530_830] Re: 6 meter transverter
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, September 6, 2009, 6:14 AM

I'd find out if it includes the interface cable
before bidding too much, if at all, on it. If you think the
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----- Original Message -----
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To: <TS-520_820_530_830@yahoogroups.com>
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>
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Yahoo! Groups Links

[Non-text portions of this message have been removed]

22318. RE: [TS-520_820_530_830] Re: 6 meter transverter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-06 15:26:29 UTC
From: Dick Merryman
Topic: 22279 Message: 22318

In this case I was referring to the cable. Why couldn't a person make their own?

-Dick-
N3XRU

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of ken bolin
Sent: Sunday, September 06, 2009 7:57 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: RE: [TS-520_820_530_830] Re: 6 meter transverter

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--- On Sun, 9/6/09, Dick Merryman <dicko@wormhole.
<mailto:dicko%40wormhole.com> com> wrote:

From: Dick Merryman <dicko@wormhole. <mailto:dicko%40wormhole.com> com>
Subject: RE: [TS-520_820_530_830] Re: 6 meter transverter
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
Date: Sunday, September 6, 2009, 7:31 AM

Why couldn't a person make their own?

-Dick-
N3XRU

From: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
[mailto:TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
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To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
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Subject: Re: [TS-520_820_530_830] Re: 6 meter transverter

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To: <TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
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I don't know if you have checked there yet.

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> ebay.com/?_from=R40&_trksid=p3907.m38.l1313&_nkw=kenwood+tv-506
&_sacat=See-All-Categories>
ebay.com/?_from=R40&_trksid=p3907.m38.l1313&_nkw=kenwood+tv-506&_sacat=See-A
ll-Categories

4 days, 15 hours left on bidding as I had responded.

Good Luck and 73,

Mike - KI4FDH

--- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups. <mailto:830%40yahoogroups.com> com, "bornofthehorses"
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>
> Anyone seen a 6 meter transverter for the TS -520s available on the net?
> Ken
>

[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

22319. RE: [TS-520_820_530_830] Re: 6 meter transverter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-06 17:10:10 UTC
From: Lou Blasco
Topic: 22279 Message: 22319

Hi Dick,

The Kenwood transverter cable uses special connectors that are
probably more difficult to come by than the original cable. There is
of course no reason why you couldn't change the connectors to
something more common but I think in most cases folks won't want to
make significant changes to their equipment. The other option is to
make a transverter from the ground up (google is your friend) and use
the transverter in/out connectors on the back of the radio and skip
the special cable altogether.

Lou
VK3ALB

At 01:26 AM 07/09/2009, you wrote:
>In this case I was referring to the cable. Why couldn't a person make their
>own?
>
> -Dick-
> N3XRU
>
>

22320. Re: [TS-520_820_530_830] Re: 6 meter transverter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-06 17:20:02 UTC
From: William S. White
Topic: 22279 Message: 22320

To do it "right" you need the even harder to find,
12 pin Hirose connectors. When I was shopping,
I saw a few that were "hacked", bad job, using 25 pin
computer plugs which meant I would have to hack my TV-502
and I didn't like that idea too well, so I passed on them.

So, if you have the connectors or don't mind modifying your
equipment there is no reason one couldn't make a cable.
Page 13 of the 520S manual shows the pin out for the cable.

----- Original Message -----
From: "Dick Merryman" <dicko@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, September 06, 2009 11:26 AM
Subject: RE: [TS-520_820_530_830] Re: 6 meter transverter

> In this case I was referring to the cable. Why couldn't a person make
> their
> own?
>
> -Dick-
> N3XRU

22321. Re: Maintenance turns into death.TS-830S 12 volt buss supply

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-06 16:57:33 UTC
From: ki6nda
Topic: 22308 Message: 22321

Mike,

Thank you so much for sharing your thoughts. I was hoping you would stop by.

I have the HI RES schematic from Ken's excellent site, and also have the Service Manual in PDF. Using circuit trace info in the Service manual, and the schematic, I've confirmed with "in circuit" testing (resistance checks) that both filter caps (C83 & C84) are OK. At least in a low voltage resistance test. I can see them charge, and very high resistance to ground. However...

While poking around, I was able to get a voltage reading off the base of Q34. Virtually the same as the emitter voltage (19.2 to 19.3 VDC). And 0 volts on the collector. So I happened to check resistace to ground on the Collector side. This is the 12.5 volt buss (buse ?) leading into Q30. It read 4.2 ohms to ground. Hmmm, well that doesn't look to good! C81 catches my eye, and interestingly, it has a very slight wiggle to it. And it has a red ink mark on it from a prior owner. Very interesting.

Conclusions:

Would you agree C81 needs to be removed and checked for a short. If it's not the culprit, a contiuned search on the collector side on Q34 for a short?

My gut tells me Q34 is probable gone, as it's collector went to near ground. Q30 is probable OK. Would you agree, or am I getting ahead of myself? A quick search for 2SA473Y turned up nothing for a source, but appears to cross over to NTE153. The specs don't look the same, but cross reference says it works.

Again, thanks much.

73's, Jerry KI6NDA

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Jerry,
>
> Based on the information and voltage levels you provided, it is possible that one or both, Q30 and/or Q34, on the AF UNIT could possibly be bad.
>
> However, before changing Q30 or Q34 on the AF UNIT, may I suggest checking filter capacitors C83 and C84 on the AF UNIT. These capacitors

are are the filter capacitors for the 14VDC supply. A short in one or both capacitors can result in a failure of the 14VDC supply.
>
> The 14VDC supply provides the "base" voltage for the 3.2VDC, 9VDC, and 12VDC supplies.
>
> The PLL UNIT, AF UNIT, IF UNIT, COUNTER ASSY UNIT, and portions of the RF UNIT, all are powered by these LV supplies. If the 14VDC supply fails so do the other LV supplies resulting in an 830 that appears "dead" when powered on.
>
> The dial lamps and tube filaments are powered by a separate 12VAC secondary winding of the power transformer so they will illuminate.
>
> 73's
> Mike W5RKL

22322. Re: [TS-520_820_530_830] Putting life back into TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-06 19:16:13 UTC
From: John Davidson
Topic: 22310 Message: 22322

Sounds like the VOX controls on the side are not adjusted for the way you are operating.
Try turning OFF the VOX control and operate manually with TX switch on the front or the PTT button on a mic.
IF that cures slow t/r switching then you need to get the operators manual; and adjust the VOX settings.

--- On Sat, 9/5/09, whiteknight926 <dsellmeyer@...> wrote:

From: whiteknight926 <dsellmeyer@...>
Subject: [TS-520_820_530_830] Putting life back into TS-520
To: TS-520_820_530_830@yahoogroups.com
Date: Saturday, September 5, 2009, 9:06 PM

One rig only puts out about 5 Watts so will start with the other that at least has about 85-100 watts...

The second one I have has a slow going time going from Trasmitt back to recieve. It just hangs there in Trasmit and then slowly goes back to recieve.

Help Please !!!!

73's
Dan
KC0GXY

[Non-text portions of this message have been removed]

22323. Re: [TS-520_820_530_830] Re: 6 meter transverter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-06 19:28:28 UTC
From: John Davidson
Topic: 22279 Message: 22323

It has been too long since I had the Kwd Transverter , but what do you need besides two short pieces of coax with RCA connectors on the ends ??????????????
It sure doesn't need a computer interface or any of that "modern" crapp...

-- On Sun, 9/6/09, William S. White <wwhite01@rochester.rr.com> wrote:

From: William S. White <wwhite01@...>
Subject: Re: [TS-520_820_530_830] Re: 6 meter transverter
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, September 6, 2009, 9:14 AM

I'd find out if it includes the interface cable
before bidding too much,
since completing my 520S station but, I don't recall ever
seeing just the transverter cable for sale.

----- Original Message -----
From: "unnorml" <unnorml@yahoo. com>

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can help increase
your site traffic.

Yahoo! Groups
Mom Power
Just for moms
Join the discussion

Y! Groups blog
the best source
for the latest
scoop on Groups.
.

[Non-text portions of this message have been removed]

22324. Re: [TS-520_820_530_830] Re: 6 meter transverter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-06 20:27:04 UTC
From: ken bolin
Topic: 22279 Message: 22324

I have found that there are a few 6 meter kits out there and I am digging out my old ARRL handbooks I remember seeing a transverter in one of them. Anyone know what year it was I think it was for 6 meter, anyway I need to stay on budget.
Ken

--- On Sun, 9/6/09, John Davidson <k8jd@...> wrote:

From: John Davidson <k8jd@...>
Subject: Re: [TS-520_820_530_830] Re: 6 meter transverter
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, September 6, 2009, 12:28 PM

It has been too long since I had the Kwd Transverter , but what do you need besides two short pieces of coax with RCA connectors on the ends ??????????????
It sure doesn't need a computer interface or any of that "modern" crapp...

-- On Sun, 9/6/09, William S. White <wwhite01@...> wrote:

From: William S. White <wwhite01@...>
Subject: Re: [TS-520_820_530_830] Re: 6 meter transverter
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, September 6, 2009, 9:14 AM

I'd find out if it includes the interface cable
before bidding too much,
since completing my 520S station but, I don't recall ever
seeing just the transverter cable for sale.

----- Original Message -----
From: "unnorml" <unnorml@yahoo. com>

Recent Activity

 8
New Members

 2
New PhotosVisit Your Group

Drive Traffic
Sponsored Search
can help increase
your site traffic.

Yahoo! Groups
Mom Power
Just for moms
Join the discussion

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the best source
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scoop on Groups.
.

[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

22325. Re: Maintenance turns into death.TS-830S 12 volt buss supply

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-06 21:17:03 UTC
From: w5rkl
Topic: 22308 Message: 22325

Afternoon Jerry,

It is possible C81 could be bad. The only way to determine if it is, is to check it. By checking C81 you are not jumping ahead.

Q34's emitter and base voltages should be within ".7VDC" of each other. I suspect this is true from your emitter and base voltage checks. However, if Q34's collector voltage is zero then yes, I agree, Q34 appears to be bad. I also agree, but not sure at this point, that Q30 may NOT be bad.

I would not rule out Q31, Q32, and Q33 plus D26.

D26 is a 9 volt zener, most likely rated at 500mw.

I suspect you can find replacements for Q31, Q32, and Q33 plus the 9 volt zener quite easily.

Look at the specification sheet then compare the specs to modern NPN and PNP transistors.

My first replacement thoughts for Q33 (PNP) could possibly be a 2N3906. For Q31 and Q32, possibly a 2N3904 (NPN). I have not compare the 2N3904 (NPN) and 2N3906 (PNP) against the Japanese transistors, 2SC945Q (NPN) and the 2SA1015Y (PNP).

The 820 uses a 2SA496Y in a similar but slightly different power supply circuit on its AF UNIT. I am not sure whether a 2SA496Y will work in place of the 2SA473Y. I have not compared the two transistor's specifications. They both are PNP power transistors that require a heat sink. The 2SA496Y is available for a $1.00 at the following website. I've purchased 2SA496Y's from them before and they are easy to deal with.

http://www.electronicsurplus.com/ccp78762-to-220-pnp-transistor-2sa496-y-13844.htm

Before considering using a 2SA496Y in place of a 2SA473Y, I strongly recommend comparing the 2 transistor's maximum specifications first and note any differences in pin designations.

I hope this helps.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "ki6nda" <jergood@...> wrote:
>
>
> Mike,
>
> Thank you so much for sharing your thoughts. I was hoping you would
> stop by.
>

> I have the HI RES schematic from Ken's excellent site, and also have the
> Service Manual in PDF. Using circuit trace info in the Service manual,
> and the schematic, I've confirmed with "in circuit" testing (resistance
> checks) that both filter caps (C83 & C84) are OK. At least in a low
> voltage resistance test. I can see them charge, and very high
> resistance to ground. However...
>
> While poking around, I was able to get a voltage reading off the base of
> Q34. Virtually the same as the emitter voltage (19.2 to 19.3 VDC). And
> 0 volts on the collector. So I happened to check resistace to ground on
> the Collector side. This is the 12.5 volt buss (buse ?) leading into
> Q30. It read 4.2 ohms to ground. Hmmm, well that doesn't look to good!
> C81 catches my eye, and interestingly, it has a very slight wiggle to
> it. And it has a red ink mark on it from a prior owner. Very
> interesting.
>
> Conclusions:
>
> Would you agree C81 needs to be removed and checked for a short. If
> it's not the culprit, a contiuned search on the collector side on Q34
> for a short?
>
> My gut tells me Q34 is probable gone, as it's collector went to near
> ground. Q30 is probable OK. Would you agree, or am I getting ahead of
> myself? A quick search for 2SA473Y turned up nothing for a source, but
> appears to cross over to NTE153. The specs don't look the same, but
> cross reference says it works.
>
> Again, thanks much.
>
> 73's, Jerry KI6NDA
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Jerry,
> >
> > Based on the information and voltage levels you provided, it is
> possible that one or both, Q30 and/or Q34, on the AF UNIT could possibly
> be bad.
> >
> > However, before changing Q30 or Q34 on the AF UNIT, may I suggest
> checking filter capacitors C83 and C84 on the AF UNIT. These capacitors
> are are the filter capacitors for the 14VDC supply. A short in one or
> both capacitors can result in a failure of the 14VDC supply.
> >
> > The 14VDC supply provides the "base" voltage for the 3.2VDC, 9VDC, and
> 12VDC supplies.
> >
> > The PLL UNIT, AF UNIT, IF UNIT, COUNTER ASSY UNIT, and portions of the

> RF UNIT, all are powered by these LV supplies. If the 14VDC supply fails
> so do the other LV supplies resulting in an 830 that appears "dead" when
> powered on.
> >
> > The dial lamps and tube filaments are powered by a separate 12VAC
> secondary winding of the power transformer so they will illuminate.
> >
> > 73's
> > Mike W5RKL
>

22326. Re: Freq Counter for TS 820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-07 05:45:17 UTC
From: blacklabpupp
Topic: 22293 Message: 22326

I checked out the web site and wrote the guy, but he is not knowledgable about the TS 820. I dont have and idea how to connect it. Since I am about half blind I need someone to tell me exactly where to look. I am glade you were able to make it work on your rig. I would like to mount one externally. I stopped tonight working on my most used rig, TS 820, soldering in the new caps. A fellow ham tomorrow is taking it to his shop and will recap it for me. Looking through a magnafing glass, and soldering was to difficult for me. 60 caps was going to be to difficult. I am really glad he offered to finish it for me. Soldering in a CW filter, or taking a few measurements I can do but some projects are more than I can handle. But thanks for the link. I might just order one anyway and try to work it out myself. I think it is worth the effort. Gene

--- In TS-520_820_530_830@yahoogroups.com, "Dennis Windle" <denniswindle@...> wrote:
>
> Gene
> Check out what www.aade.com has.
> D.Windle
> ----- Original Message -----
> From: blacklabpupp
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, September 04, 2009 2:55 AM
> Subject: [TS-520_820_530_830] Freq Counter for TS 820
>
>
> I have seen a few companys selling counters for older rigs. I have contacted them and get no real help on if their product works on the 820. Does anyone know of a counter that can be used on the 820 externally? I am not looking for one to go inside the unit. But I know something can be easily connected some way with all the counter projects out there. Also how would it be connected if I could find one. This should be easy, but I cant figure it out. Gene
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

22327. 6146W

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-07 07:52:13 UTC
From: trippkj4bkd
Topic: 22327 Message: 22327

Hello All,

I aquired a pair of new GE-6146W final tubes at hamfest and currently are running 6146b Penta Lab tubes. I have been told that my Penta Lab tubes were of poor quallity as they were difficult to nuetralize and would only nuetralize from 75mv to about 40mv. That is why I purchased the 6146w tubes. I am not sure what settings on the Ocilloscope to adjust to see mv bleed off from the new tubes. What setting have others used on their O scopes. I understand that I am looking to get down to about 10mv or so. I understand the procedure as I have read but I am not sure how to adjust the O scope to see it. I am not sure weather DC or AC what setting on time/volt scale. Is there a video of someone nuetralizing tubes someware. I would like to watch.

Any Way thanks for any help.

Tripp
KJ4BKD

22328. Re-activating TS 520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-07 08:01:28 UTC
From: vk1dw
Topic: 22328 Message: 22328

Hi All

I am about to re-activate my TS 520 S after it has not been used for about 12 years. Are there any accepted procedures for bringing the transmitter back into action?

If this topic has been covered in any posts please point me in the right direction.

Regards

Deane
VK1DW

22329. Re: TS-820s and wattage output.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-07 08:32:41 UTC
From: trippkj4bkd
Topic: 22263 Message: 22329

--- In TS-520_820_530_830@yahoogroups.com, "marcus_leatham" <kr5n@...> wrote:
>
> Don't get discouraged. Antenna problems are easier to fix
> than rig problems. The way you talk about your tuner, it may be
> giving you trouble.
>
>
Hey Mark thanks for the encouragment and I think I have narrowed down the problems.For one I had most likely cooked my tuner over time.
and secondley I have an antenna that will not tune properlly on all 160 thru 10. now that I have a new tunner I can see that my antenna is not very resonant on a lot of bands It is very tunable on 20 meters but not so good on others. I am going to try adding about another 25 feet on the the ends 12 1/2 each leg. That would give me 127. That seems a little long I could always trim back. I do not want to kill my new tuner so I am going to take slow and easy and yes It has the built in dummy load that i will tune my rig up first on that.

Thanks for the suggestions and I will come back with some results if any one is interested in hearing how it comes out.

Tripp
KJ4BKD

22330. Last call on MC-50 Mic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-07 16:03:04 UTC
From: ke1lg
Topic: 22330 Message: 22330

Last call before it hits ebay...

MC-50 Desk Mic, pristine condition. With 4-pin plug,cable. Came from my working 830 station. Pics on request. 100 bucks, uship from Maine,USPS.
Tnx, Steve in Miane
ke1lg

22331. TS-820 and D-104 using VOX possible?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-07 11:52:50 UTC
From: k5lcl@sbcglobal.net
Topic: 22331 Message: 22331

I just recently bought a TS-820 and wired a D-104, per the instructions below.

pin 1: white
pin 2: black
pin 3: red
pin 4: shield

The radio works fine on SSB, using the PTT switch/handle on the D-104. I get good audio and signal reports, with this combination.

I cannot get the VOX function to work on this fine old radio. The switch in the base of the stand is set to "R". I don't know if the mike is properly wired for VOX, or if there is something else I have to do to the radio, besides flipping the VOX switch on and adjusting the VOX Delay, Anti-VOX, and VOX Gain. Any ideas?

22332. Re: TS-830S front panel -- need help

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-07 08:08:31 UTC
From: trippkj4bkd
Topic: 22300 Message: 22332

--- In TS-520_820_530_830@yahoogroups.com, "gperazzoli" <gperazzoli@...> wrote:
>
> Hello,
>
> I've found a TS-830S front panel on ebay, but the seller wouldn't ship it outside the U.s.
>
> He told me that I could buy it and ask him to send it to a friend or relative of mine in the US, but I don't have one in order to forward the package thru lowest fare US Mail to me.
>
> Please, if someone could lend me a hand with this matter, I would really appreciate it.
>
> Thank you in advance for your kind assistance.
>
> Best Regards,
> Guido Luis Perazzoli, LW8EOQ
> ARGENTINA
>
> PD: PM me at gperazzoli@...
>
\\

Hello Guido, Ask again politely and reasure seller that you would pay first for shipping and product and would not mind to wait for funds to clear before seller ships item. Also provide exact adress so that shipping charges could be calculated acurratley and shipment would not get lost. I had a time with lost shipment from Argentina once. Maybe seller will say Ok maybe not. Good luck.

22333. Re: Maintenance turns into death.TS-830S 12 volt buss supply

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-07 16:13:47 UTC
From: ki6nda
Topic: 22308 Message: 22333

Good morning Mike,

A small update...

When I tilted the AF board down where I could get at the trace side, I saw how nasty it looked, so spent some time cleaning it up with denatured alcohol and a tooth brush. Nice and spiffy now. I pulled C81, and found it to be good. Not the source of the short. Then I went ahead and pulled Q34 since we know it to be bad. It came apart on me as I removed it. So much for that.

Where I'm headed, and why. I believe the source of the short to be somewhere else in the rig. When looking at the schematic, specifically the 12.5VDC line from the collector of Q34 to the emitter of Q30, all other components (active and passive) on that line are above ground from resistors tied to their legs. Even if they are all bad (Q31, 32, 33, D26), and shorted, they all have resistors on their legs going to ground. The only exception is C81, and it tested good. However, there is an un-numbered TP right at the emitter of Q30 that has three wires attached, leading off to other locations. I believe I'll find my short down one of those lines. Then, I can return to the AF board to find all the damage done. If I'm "off base" here, please correct me. :)

Bonanza! The link you provided has the 2SA473, but without the (Y) on it. There is only one data sheet I can find on the web for this trasistor, and it makes no mention of any letters added to the component. Q31 and Q32 are also availible, but Q33, and the zener are going to take more digging. At least I can get Q34, and this is the only one we know to be bad, at the moment. Thanks much for that link!

Again, many thanks Mike. Please correct me where needed. :) Your input is greatly respected.

73's, Jerry KI6NDA

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Afternoon Jerry,
>
> It is possible C81 could be bad. The only way to determine if it is, is to check it. By checking C81 you are not jumping ahead.
>
> Q34's emitter and base voltages should be within ".7VDC" of each other. I suspect this is true from your emitter and base voltage checks. However, if Q34's collector voltage is zero then yes, I agree, Q34 appears to be bad. I also agree, but not sure at this point, that Q30 may NOT be bad.

>
> I would not rule out Q31, Q32, and Q33 plus D26.
>
> D26 is a 9 volt zener, most likely rated at 500mw.
>
> I suspect you can find replacements for Q31, Q32, and Q33 plus the 9 volt zener quite easily.
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> My first replacement thoughts for Q33 (PNP) could possibly be a 2N3906. For Q31 and Q32, possibly a 2N3904 (NPN). I have not compare the 2N3904 (NPN) and 2N3906 (PNP) against the Japanese transistors, 2SC945Q (NPN) and the 2SA1015Y (PNP).
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> The 820 uses a 2SA496Y in a similar but slightly different power supply circuit on its AF UNIT. I am not sure whether a 2SA496Y will work in place of the 2SA473Y. I have not compared the two transistor's specifications. They both are PNP power transistors that require a heat sink. The 2SA496Y is available for a $1.00 at the following website. I've purchased 2SA496Y's from them before and they are easy to deal with.
>
>
http://www.electronicsurplus.com/ccp78762-to-220-pnp-transistor-2sa496-y\
-13844.htm
>
> Before considering using a 2SA496Y in place of a 2SA473Y, I strongly recommend comparing the 2 transistor's maximum specifications first and note any differences in pin designations.
>
> I hope this helps.
>
> 73's
> Mike W5RKL

22334. Re: [TS-520_820_530_830] 6146W

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-07 19:07:42 UTC
From: Stephen Judd
Topic: 22327 Message: 22334

I agree with the process of neutralizing the PA stage of the rig I posted in the past if anyone was willing to make a video of this process hope you will have much more success on someone cutting a video on this procedure 73

Stephen/KB7BGS

--- On Mon, 9/7/09, trippkj4bkd <thomasenglish3@embarqmail.com> wrote:

From: trippkj4bkd <thomasenglish3@...>
Subject: [TS-520_820_530_830] 6146W
To: TS-520_820_530_830@yahoogroups.com
Date: Monday, September 7, 2009, 1:52 AM

Hello All,

I aquired a pair of new GE-6146W final tubes at hamfest and currently are running 6146b Penta Lab tubes. I have been told that my Penta Lab tubes were of poor quallity as they were difficult to nuetralize and would only nuetralize from 75mv to about 40mv. That is why I purchased the 6146w tubes. I am not sure what settings on the Ocilloscope to adjust to see mv bleed off from the new tubes. What setting have others used on their O scopes. I understand that I am looking to get down to about 10mv or so. I understand the procedure as I have read but I am not sure how to adjust the O scope to see it. I am not sure weather DC or AC what setting on time/volt scale. Is there a video of someone nuetralizing tubes someware. I would like to watch.

Any Way thanks for any help.

Tripp
KJ4BKD

[Non-text portions of this message have been removed]

22335. Re: TS-820 and D-104 using VOX possible?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-07 19:09:06 UTC
From: w5rkl
Topic: 22331 Message: 22335

The internal wiring for both the PTT bar switch and the microphone element depends on the D-104's base wiring and, of course any previous owner's rewiring/changing of the base wiring.

I doubt the transceiver's VOX is the problem. More than likely the microphone element is connected to a normal "open" switch contact that only closes, connecting the microphone element to the microphone plug, when the PTT bar is squeezed.

Here's a link to the wiring diagrams to a number of D-104 using different bases. There in a small plate along the bottom edge of the base that signifies the type of base the microphone is attached to.

http://barovelli.com/index.php?blog=3&p=86&more=1&c=1&tb=1&pb=1

The D-104 wiring is also pasted on the inside bottom cover as well. Remove the bottom cover and look at the wiring.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "k5lcl@..." <k5lcl@...> wrote:
>
> I just recently bought a TS-820 and wired a D-104, per the instructions below.
>
> pin 1: white
> pin 2: black
> pin 3: red
> pin 4: shield
>
> The radio works fine on SSB, using the PTT switch/handle on the D-104. I get good audio and signal reports, with this combination.
>
> I cannot get the VOX function to work on this fine old radio. The switch in the base of the stand is set to "R". I don't know if the mike is properly wired for VOX, or if there is something else I have to do to the radio, besides flipping the VOX switch on and adjusting the VOX Delay, Anti-VOX, and VOX Gain. Any ideas?
>

22336. Re: [TS-520_820_530_830] 6146W

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-07 21:43:27 UTC
From: Lou Blasco
Topic: 22327 Message: 22336

Hi Tripp,

Adjust your 'scope so you can comfortably see the carrier. It won't matter if the 'scope is AC or DC coupled as the output circuit of your radio has a DC blocking capacitor. If you want you can wind up the timebase (faster) so you can see the carrier as a sine wave but it's not really necessary. Then adjust the neutralizing cap for a minimum level. It may not come down all the way to zero and that's ok, just look for the minimum.

Lou
VK3ALB

At 05:52 PM 07/09/2009, you wrote:
>Hello All,
>
>I aquired a pair of new GE-6146W final tubes at hamfest and
>currently are running 6146b Penta Lab tubes. I have been told that
>my Penta Lab tubes were of poor quallity as they were difficult to
>nuetralize and would only nuetralize from 75mv to about 40mv. That
>is why I purchased the 6146w tubes. I am not sure what settings on
>the Ocilloscope to adjust to see mv bleed off from the new tubes.
>What setting have others used on their O scopes. I understand that I
>am looking to get down to about 10mv or so. I understand the
>procedure as I have read but I am not sure how to adjust the O scope
>to see it. I am not sure weather DC or AC what setting on time/volt
>scale. Is there a video of someone nuetralizing tubes someware. I
>would like to watch.
>
>Any Way thanks for any help.
>
>Tripp
>KJ4BKD

22337. Kenwood TS 830S for sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-07 21:48:03 UTC
From: rarnold357@bellsouth.net
Topic: 22337 Message: 22337

For Sale:

Kenwood TS 830S, Very Good condition, WARC Bands, Copy of Instruction Manual, No loose Switches or Knobs, Clean, Non Smoking environment. Comes with new 12BY7A and 6146W (2). No Microphone, No Kenwood Box. $475.00, $525.00 with Kenwood MC 50 Microphone. Pickup in person or will consider delivery within reasonable distance. Prefer not to ship. Location is Daytona Beach, Florida.

22338. Re: Kenwood TS 830S for sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-07 22:46:20 UTC
From: rarnold357@bellsouth.net
Topic: 22337 Message: 22338

The 12BY7A and two(2)6146W tubes are in addition to the ones already installed, these are new spares.

--- In TS-520_820_530_830@yahoogroups.com, "rarnold357@..." <RARNOLD357@...> wrote:
>
> For Sale:
>
> Kenwood TS 830S, Very Good condition, WARC Bands, Copy of Instruction Manual, No loose Switches or Knobs, Clean, Non Smoking environment. Comes with new 12BY7A and 6146W (2). No Microphone, No Kenwood Box. $475.00, $525.00 with Kenwood MC 50 Microphone. Pickup in person or will consider delivery within reasonable distance. Prefer not to ship.
> Location is Daytona Beach, Florida.
>

22339. Re: [TS-520_820_530_830] TS-820 and D-104 using VOX possible?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-08 12:39:30 UTC
From: Dave ve3wej
Topic: 22331 Message: 22339

is the radio is set to vox also..... I beleive the d104 vox circuit only bypasses having to use the ptt, so the radio still has be set as well.

how is hte battery in the d104 (is it an amplified mike), is it a high impedence mike?? it may just NOT be driving the audio circuit enough for vox to trigger

try a different mike

Dave Garber
VE3WEJ
----- Original Message -----
From: <k5lcl@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, September 07, 2009 7:52 AM
Subject: [TS-520_820_530_830] TS-820 and D-104 using VOX possible?

>I just recently bought a TS-820 and wired a D-104, per the instructions
>below.
>
> pin 1: white
> pin 2: black
> pin 3: red
> pin 4: shield
>
> The radio works fine on SSB, using the PTT switch/handle on the D-104. I
> get good audio and signal reports, with this combination.
>
> I cannot get the VOX function to work on this fine old radio. The switch
> in the base of the stand is set to "R". I don't know if the mike is
> properly wired for VOX, or if there is something else I have to do to the
> radio, besides flipping the VOX switch on and adjusting the VOX Delay,
> Anti-VOX, and VOX Gain. Any ideas?
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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22340. Re: Maintenance turns into death.TS-830S 12 volt buss supply

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-08 13:11:13 UTC
From: w5rkl
Topic: 22308 Message: 22340

Jerry,

Q34 crumbling in your hands as you remove it? That's an indication of excessive current flowing through Q34 due to a short to ground across the 12VDC supply (12 terminal on the AF UNIT). That's why the digital display didn't work, no receive, and only the dial lamps and tube filaments lit when power was applied. Remember, Q34 produces 12VDC that is fed to Q30 which produces 9VDC. If Q34 fails, all of the LV (3.2VDC, 9VDC, and 12VDC) supplies also fail resulting in your 830 being dead.

I recommend checking D12 on the Rectifier Unit. If D12 is found to be bad, a 1N4007 will do fine as a replacement. Also, if D12 is found to be bad, make sure you install the replacement diode correctly (banded lead connected to the "12" terminal on the Rectifier Unit).

I also recommend checking the rear panel's SG switch. It should be in the "ON" position.

To check D12, pull one lead of D12 from the Rectifier Unit's circuit board. Do not assume D12 is fine simply by looking at it. Diodes can fail, open or short internally, and they will look fine on the outside.

73's
Mike W5RKL

22341. RE: [TS-520_820_530_830] Re-activating TS 520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-08 04:57:50 UTC
From: Sulaiman Abdullah
Topic: 22328 Message: 22341

I would check inside first,

at least see that the valves are nicely seated and check for electrolytic capacitors that may have leaked, you should deal with any before applying power.

a light dusting may be ok, and a quick look for anything obvious.

the hv electrolytics would be best charged slowly, via a variac for example.

if not then put a mains filament lamp in series with the ac input, and be ready to switch the mains off quickly if you see/hear/smell anything wrong.

I haven't serviced my own TS-520S yet, this is just general advice, others may have more specific suggestions.

To: TS-520_820_530_830@yahoogroups.com
From: dgwalkington@...
Date: Mon, 7 Sep 2009 08:01:28 +0000
Subject: [TS-520_820_530_830] Re-activating TS 520S

Hi All

I am about to re-activate my TS 520 S after it has not been used for about 12 years. Are there any accepted procedures for bringing the transmitter back into action?

If this topic has been covered in any posts please point me in the right direction.

Regards

Deane
VK1DW

_____
Access your other email accounts and manage all your email from one place.
http://clk.atdmt.com/UKM/go/167688463/direct/01/

[Non-text portions of this message have been removed]

22342. Re: [TS-520_820_530_830] Re: TS-820 and D-104 using VOX possible?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-08 16:05:15 UTC
From: martin
Topic: 22331 Message: 22342

Hi Guys. It looks to me like in the amplified D-104 mics, the amp is only on when the mic is keyed. The amplified D-104 mics were mainly meant to the CB market, and some CB radios had problems if the amp was not off during receive.

If you do use VOX, you must be careful NOT to get onto the bad habit of saying ahhh, ohhh, ummmm etc... to keep the radio keyed when you want to pause longer than the VOX delay. You will also find that when using VOX, you will want to be in a quiet room, especially using an amplified mic.

Having used D-104 amplified mics in the past, I know that even setting the gain on the mic to bare minimum, and using the mic gain on the radio to control ALC settings, the D-104 can pick up any small noise in the room and key the radio when you are not speaking.

The worst example of this that I know of is of a CBer that was using VOX. He went to the bathroom and urinated (the bathroom was 3 rooms away) without closing the bathroom door. When he started to urinate, the VOX keyed the radio, and all of his friends on the CB got to hear the event, including the flush at the end.

VERY embarrassing to say the least!

w5rkl wrote:
> The internal wiring for both the PTT bar switch and the microphone
> element depends on the D-104's base wiring and, of course any
> previous owner's rewiring/changing of the base wiring.
>
> I doubt the transceiver's VOX is the problem. More than likely the
> microphone element is connected to a normal "open" switch contact
> that only closes, connecting the microphone element to the
> microphone plug, when the PTT bar is squeezed.
>
> Here's a link to the wiring diagrams to a number of D-104 using
> different bases. There in a small plate along the bottom edge of
> the base that signifies the type of base the microphone is attached
> to.
>
> http://barovelli.com/index.php?blog=3&p=86&more=1&c=1&tb=1&pb=1
>
> The D-104 wiring is also pasted on the inside bottom cover as well.
> Remove the bottom cover and look at the wiring.
>
> 73's Mike W5RKL
>

>
>
> --- In TS-520_820_530_830@yahoogroups.com, "k5lcl@..." <k5lcl@...>
> wrote:
>> I just recently bought a TS-820 and wired a D-104, per the
>> instructions below.
>>
>> pin 1: white pin 2: black pin 3: red pin 4: shield
>>
>> The radio works fine on SSB, using the PTT switch/handle on the
>> D-104. I get good audio and signal reports, with this
>> combination.
>>
>> I cannot get the VOX function to work on this fine old radio.
>> The switch in the base of the stand is set to "R". I don't know
>> if the mike is properly wired for VOX, or if there is something
>> else I have to do to the radio, besides flipping the VOX switch
>> on and adjusting the VOX Delay, Anti-VOX, and VOX Gain. Any
>> ideas?
>>
>
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

22343. Re: [TS-520_820_530_830] Re: TS-820 and D-104 using VOX possible?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-08 16:56:28 UTC
From: Gordon JC Pearce
Topic: 22331 Message: 22343

On Tue, 2009-09-08 at 11:05 -0500, martin wrote:

> The worst example of this that I know of is of a CBer that was using
> VOX. He went to the bathroom and urinated (the bathroom was 3 rooms

I used to use VOX in the car on my 2m rig, until someone pointed out
that every time I cogged it down to 3rd for steep hills it keyed the
mike...

Gordon MM0YEQ

22344. Re: [TS-520_820_530_830] TS-820 and D-104 using VOX possible?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-08 17:20:19 UTC
From: k5lcl@sbcglobal.net
Topic: 22331 Message: 22344

Radio is set to VOX, gain adjusted all the way up, (and everywhere in between), anti-VOX is adjusted all the way down too. It is an amplified D-104. I'm just guessing, but if I get good signals on audio, in SSB mode, wouldn't it be driving the audio circuit high enough? Impedance, in D-104 manual, says 5000 Ohms, or less.

----- Original Message -----
From: Dave ve3wej
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, September 08, 2009 7:39 AM
Subject: Re: [TS-520_820_530_830] TS-820 and D-104 using VOX possible?

is the radio is set to vox also..... I beleive the d104 vox circuit only bypasses having to use the ptt, so the radio still has be set as well.

how is hte battery in the d104 (is it an amplified mike), is it a high impedence mike?? it may just NOT be driving the audio circuit enough for vox to trigger

try a different mike

Dave Garber
VE3WEJ
----- Original Message -----
From: <k5lcl@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, September 07, 2009 7:52 AM
Subject: [TS-520_820_530_830] TS-820 and D-104 using VOX possible?

>I just recently bought a TS-820 and wired a D-104, per the instructions
>below.
>
> pin 1: white
> pin 2: black
> pin 3: red
> pin 4: shield
>
> The radio works fine on SSB, using the PTT switch/handle on the D-104. I
> get good audio and signal reports, with this combination.
>
> I cannot get the VOX function to work on this fine old radio. The switch
> in the base of the stand is set to "R". I don't know if the mike is
> properly wired for VOX, or if there is something else I have to do to the
> radio, besides flipping the VOX switch on and adjusting the VOX Delay,
> Anti-VOX, and VOX Gain. Any ideas?
>
>

>
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>
> Yahoo! Groups Links
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>

[Non-text portions of this message have been removed]

22345. Re: Putting life back into TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-08 17:09:17 UTC
From: whiteknight926
Topic: 22310 Message: 22345

Thankyou but doesn't the VOX only work when the front switch in flipped up and put in VOX position ??? Thats my guess ??? I'll try your suggestion of turning the VOX off on the side screws.

As for the relay I put some deoxit on the reeds of the relays and it seemed ok. They didn't look that dirty to begin with. I have also noticed a relay chattering in side the rig that I can hear and sometimes the rig seems slightly keyed up and I can see it in the S-meter and the recieve seems faint. With a tap on the side the S-meter drops and I get full recieve agin....

Thanks
Dan
KC0GXY

22346. Re: [TS-520_820_530_830] TS-820 and D-104 using VOX possible?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-08 18:40:19 UTC
From: Don Thomas
Topic: 22331 Message: 22346

Most D-104's I've seen only connect the mic element and/or amplifier with the PTT switch when pressed. For VOX, you will have to rig a way to turn on the amplifier when using it for VOX with the radio. Normally the amplifier only gets power when the PTT is pressed.

Don T.

--- On Tue, 9/8/09, k5lcl@... <k5lcl@...> wrote:

From: k5lcl@sbcglobal.net <k5lcl@...>
Subject: Re: [TS-520_820_530_830] TS-820 and D-104 using VOX possible?
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, September 8, 2009, 12:20 PM

Radio is set to VOX, gain adjusted all the way up, (and everywhere in between), anti-VOX is adjusted all the way down too. It is an amplified D-104. I'm just guessing, but if I get good signals on audio, in SSB mode, wouldn't it be driving the audio circuit high enough? Impedance, in D-104 manual, says 5000 Ohms, or less.

----- Original Message -----
From: Dave ve3wej
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Tuesday, September 08, 2009 7:39 AM
Subject: Re: [TS-520_820_ 530_830] TS-820 and D-104 using VOX possible?

is the radio is set to vox also..... I beleive the d104 vox circuit only
bypasses having to use the ptt, so the radio still has be set as well.

how is hte battery in the d104 (is it an amplified mike), is it a high
impedence mike?? it may just NOT be driving the audio circuit enough for
vox to trigger

try a different mike

Dave Garber
VE3WEJ
----- Original Message -----
From: <k5lcl@sbcglobal. net>
To: <TS-520_820_530_ 830@yahoogroups. com>
Sent: Monday, September 07, 2009 7:52 AM
Subject: [TS-520_820_ 530_830] TS-820 and D-104 using VOX possible?

>I just recently bought a TS-820 and wired a D-104, per the instructions
>below.
>
> pin 1: white
> pin 2: black
> pin 3: red

> pin 4: shield
>
> The radio works fine on SSB, using the PTT switch/handle on the D-104. I
> get good audio and signal reports, with this combination.
>
> I cannot get the VOX function to work on this fine old radio. The switch
> in the base of the stand is set to "R". I don't know if the mike is
> properly wired for VOX, or if there is something else I have to do to the
> radio, besides flipping the VOX switch on and adjusting the VOX Delay,
> Anti-VOX, and VOX Gain. Any ideas?
>
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>
> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

22347. Re: [TS-520_820_530_830] TS-820 and D-104 using VOX possible?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-08 18:53:09 UTC
From: K5vse-Mike
Topic: 22331 Message: 22347

It's been a very long time ago, but my 104 works VOX with my TR-4 with no trouble. Seems I looked at the bottom and there was a schematic to follow. I think I moved one wire and used a jumper between two terminals. Look at the bottom plate, or do a search for Astatic: D-104.

Hope this helps

Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2009
"In God We Trust"

[Non-text portions of this message have been removed]

22348. Re: Putting life back into TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-08 19:01:28 UTC
From: w5rkl
Topic: 22310 Message: 22348

--- In TS-520_820_530_830@yahoogroups.com, "whiteknight926" <dsellmeyer@...> wrote:
>
> Thankyou but doesn't the VOX only work when the front switch in flipped up and put in VOX position ???

Yes, that's right.

>Thats my guess ??? I'll try your suggestion of turning the VOX off on the side screws.

If the 520's VOX is turned OFF, the only way the relays can be energized is by the PTT or SEND switch. If the MODE switch is set to CW and the CW key is closed (pressed), a CW side tone will be heard in the speaker but the relays will not energize. If the VOX switch is turned OFF, the side panel controls (VOX GAIN, VOX DELAY, and ANTI VOX) have no affect.

>
> As for the relay I put some deoxit on the reeds of the relays and it seemed ok. They didn't look that dirty to begin with. I have also noticed a relay chattering in side the rig that I can hear and sometimes the rig seems slightly keyed up and I can see it in the S-meter and the recieve seems faint. With a tap on the side the S-meter drops and I get full recieve agin....
>
> Thanks
> Dan
> KC0GXY
>

There are "2" relays in the 520, RL1 and RL2.

RL1 is located on the top left rear below the VOX UNIT. RL1 primarily controls the overall circuit switching and voltage control between receive and transmit.

RL2 is located under a small metal enclosure below the final unit between the rear panel and the larger metal enclosure. RL2 primarily controls the antenna change over as well as controlling the X-verter.

Both relays are controlled by the VOX UNIT.

You said one of the relay's is "chattering" and tapping on the cabinet stops the chattering. It is quite possible the VOX UNIT board may be causing the chattering due to a loose/bad ground on the VOX UNIT board. Try tightening all of the PC board mounting screws.

As for the "slow receiver recovery" from transmit to receive, even after the relay resets properly, the next time this happens, turn the AGC switch to "FAST" or "OFF" postion. If the receiver rapidly recovers, then is quite possible a resistor in the receiver's AGC slow decay circuit has changed (increased) value resulting in an increase in decay time. Further testing and checking of the receiver's AGC circuit will be required to determine if this is the case and which component is failing.

Check all PC board mounting screws to ensure they are tight. If the screw is tight, loosen it one turn then tighten. Do the same with chassis ground screws.

73's
Mike W5RKL

22349. Re: [TS-520_820_530_830] Re: Putting life back into TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-08 20:37:17 UTC
From: Daniel TOESCA
Topic: 22310 Message: 22349

Dan, Don't spray anything between relay contacts ! Either use the special file made for pinball repairmen (yes, that's true, there are lots of moving contacts in those machines) or a rough cardboard, or VERY VERY FINE GRADE sandpaper, 800 or best 1200 grade, this in a last resort. Apply some pressure on the armature supporting the blades to clean those normally open. Hope this helps - 73's, Daniel, ON5PY

2009/9/8, whiteknight926 <dsellmeyer@...>:
>
>
>
> Thankyou but doesn't the VOX only work when the front switch in flipped up
> and put in VOX position ??? Thats my guess ??? I'll try your suggestion of
> turning the VOX off on the side screws.
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> As for the relay I put some deoxit on the reeds of the relays and it seemed
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> chattering in side the rig that I can hear and sometimes the rig seems
> slightly keyed up and I can see it in the S-meter and the recieve seems
> faint. With a tap on the side the S-meter drops and I get full recieve
> agin....
>
> Thanks
> Dan
> KC0GXY
>
>
>

[Non-text portions of this message have been removed]

22350. RE: [TS-520_820_530_830] Re: Putting life back into TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-08 20:42:26 UTC
From: Greg Anders
Topic: 22310 Message: 22350

I have been told not to use sandpaper at all. Instead its recommended that you use a piece of cardboard (like business card stock) or a plain brown grocery bag cut into strips to run thru the contacts with some slight pressure.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Daniel TOESCA
Sent: Tuesday, September 08, 2009 1:37 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: Putting life back into TS-520

Dan, Don't spray anything between relay contacts ! Either use the special file made for pinball repairmen (yes, that's true, there are lots of moving contacts in those machines) or a rough cardboard, or VERY VERY FINE GRADE sandpaper, 800 or best 1200 grade, this in a last resort. Apply some pressure on the armature supporting the blades to clean those normally open. Hope this helps - 73's, Daniel, ON5PY

2009/9/8, whiteknight926 <dsellmeyer@...<mailto:dsellmeyer%40neb.rr.com>>:
>
>
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> Thankyou but doesn't the VOX only work when the front switch in flipped up
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> agin....
>
> Thanks
> Dan
> KC0GXY
>
>
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

22351. Re: [TS-520_820_530_830] TS-820 and D-104 using VOX possible?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-08 22:29:19 UTC
From: DW
Topic: 22331 Message: 22351

There's a Yahoo group for Astatic mics. Not a lot of traffic, but lots of experienced hands there.

DW White <><
KE6WYB ><>
Shasta County, California: CN80uk <><
God, Country, Corps><>
AR

22352. VOX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-09 05:51:32 UTC
From: Dick Merryman
Topic: 22310 Message: 22352

I need to have someone explain how to properly use VOX. I've tried and tried and cannot get it adjusted correctly. It is either so sensitive that my breathing sets it off or putting a pencil down on the table sets it off or so insensitive that it misses the first syllable before activating.

It's a real PIA and consequently I don't even bother with it anymore.

-Dick-

[Non-text portions of this message have been removed]

22353. Download old technical manuals FREE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-09 06:38:39 UTC
From: Lou Blasco
Topic: 22353 Message: 22353

Hi Everyone,

Not sure if this has been posted before but I came across a web site
that has old technical manuals pre 1964 available for downloading..
These may be of interest to some of you. The scan quality is
excellent and there is no copyright infringement due to the age of the books.

<http://www.pmillett.com/tecnical_books_online.htm>http://www.pmillett.com/tecnical_books_online.htm

Lou

[Non-text portions of this message have been removed]

22354. Re: [TS-520_820_530_830] VOX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-09 06:52:55 UTC
From: Gordon JC Pearce
Topic: 22310 Message: 22354

On Tue, 2009-09-08 at 22:51 -0700, Dick Merryman wrote:
> I need to have someone explain how to properly use VOX. I've tried and
> tried and cannot get it adjusted correctly. It is either so sensitive that
> my breathing sets it off or putting a pencil down on the table sets it off
> or so insensitive that it misses the first syllable before activating.
>
> It's a real PIA and consequently I don't even bother with it anymore.

I tend to operate in a not-terribly-quiet room, so I use a fist mike
(MC-10) and leave the VOX off. It's useful for operating PSK or RTTY,
because it saves having to wire up a PTT line interface.

Gordon MM0YEQ

22355. VFO-230 in Tune Mode

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-09 15:03:27 UTC
From: ka1wpm
Topic: 22355 Message: 22355

Hello All,

I posted this question once before, but didn't get a response. Maybe someone could try this and let me know what happens.

Whenver I put my VFO-230 in VFO mode, and my TS-830S in TUNE mode, the display on the 830 blanks.

Does anyone else see this?

TNX,
-- Dana, KA1WPM

22356. Re: [TS-520_820_530_830] VOX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-09 16:50:03 UTC
From: Martin
Topic: 22310 Message: 22356

Hi Dick. What kind of mic are you using? If its an amplified mic I am not too surprised. You need a really quiet room. The amplified D-104 mics seem to be especially sensitive to the slightest sound. The best advice I can give you is to try setting the gain control on the mic almost off, and adjust the mic gain on the radio. VOX operation can be problematical. You must be careful not to get into the bad habit of saying ahhh, ohhh, ummm, etc...to keep the radio keyed when you want to pause longer than the VOX delay. Also, sounds in the room keying the radio is not uncommon. If you choose to use VOX (I don't recommend it) you should keep the VOX switch turned off when not actually making a QSO.

The only time I use VOX is ti key the radio when using digital modes like PSK-31.

TTYL

Dick Merryman wrote:
> I need to have someone explain how to properly use VOX. I've tried and
> tried and cannot get it adjusted correctly. It is either so sensitive that
> my breathing sets it off or putting a pencil down on the table sets it off
> or so insensitive that it misses the first syllable before activating.
>
> It's a real PIA and consequently I don't even bother with it anymore.
>
> -Dick-
>
>
>
> [Non-text portions of this message have been removed]
>
>
>

22357. ts 520 tuning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-09 17:30:21 UTC
From: w1ltx
Topic: 22357 Message: 22357

hello
i just got a ts 520 kenwood and don't have a clue how to tune it the manual is confussing
i'm have trouble understanding it.
bob w1ltx

22358. Re: [TS-520_820_530_830] ts 520 tuning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-09 18:16:41 UTC
From: Dave ve3wej
Topic: 22357 Message: 22358

i copied the instructions from the manual, enlarged it, read it many many times, and still read it when needed.. it is tacked under the radio.

I does take time to learn, dont expect to be an expert the first day, remember we are not expert, we are amateurs, hi hi

check also the files area and know hybrid website, there are lots that can help

----- Original Message -----
From: "w1ltx" <w1ltx1@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, September 09, 2009 1:30 PM
Subject: [TS-520_820_530_830] ts 520 tuning

> hello
> i just got a ts 520 kenwood and don't have a clue how to tune it the
> manual is confussing i'm have trouble understanding it.
> bob w1ltx
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

22359. Re: [TS-520_820_530_830] ts 520 tuning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-09 18:31:56 UTC
From: NEIL SAUNDERS
Topic: 22357 Message: 22359

Hi dead easy once you have done it couple of times switch band to frequency desired i always peak drive control to maximum recieve first i leave the load control at about 11 o clock set meter to rf power switch to tune dip plate on key up to obtain peak power ,then dip the ip . thats enough to get useful power you can then play around fine tuning if you want to and thats it .hope that helps .

--- On Wed, 9/9/09, Dave ve3wej <ve3wej@...> wrote:

From: Dave ve3wej <ve3wej@...>
Subject: Re: [TS-520_820_530_830] ts 520 tuning
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, 9 September, 2009, 7:16 PM

i copied the instructions from the manual, enlarged it, read it many many times, and still read it when needed.. it is tacked under the radio.

I does take time to learn, dont expect to be an expert the first day, remember we are not expert, we are amateurs, hi hi

check also the files area and know hybrid website, there are lots that can help

----- Original Message -----
From: "w1ltx" <w1ltx1@gmail. com>
To: <TS-520_820_530_ 830@yahoogroups. com>
Sent: Wednesday, September 09, 2009 1:30 PM
Subject: [TS-520_820_ 530_830] ts 520 tuning

> hello
> i just got a ts 520 kenwood and don't have a clue how to tune it the
> manual is confussing i'm have trouble understanding it.
> bob w1ltx
>
>
>
> ------------ --------- --------- ------
>
> Yahoo! Groups Links
>
>
>

[Non-text portions of this message have been removed]

22360. Re: ts 520 tuning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-09 18:32:08 UTC
From: skyhawk579
Topic: 22357 Message: 22360

--- In TS-520_820_530_830@yahoogroups.com, "w1ltx" <w1ltx1@...> wrote:
>
> hello
> i just got a ts 520 kenwood and don't have a clue how to tune it the manual is confussing i'm have trouble understanding it.
> bob w1ltx
>

http://www.k4eaa.com/tune-upP.htm

73's

Rick

22361. Re: [TS-520_820_530_830] ts 520 tuning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-09 20:03:09 UTC
From: John Davidson
Topic: 22357 Message: 22361

My TS520 manual is quite clear.
Do you have the Japaneese version ?
Anyway, What's your question?

--- On Wed, 9/9/09, w1ltx <w1ltx1@...> wrote:

From: w1ltx <w1ltx1@...>
Subject: [TS-520_820_530_830] ts 520 tuning
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, September 9, 2009, 1:30 PM

hello
i just got a ts 520 kenwood and don't have a clue how to tune it the manual is confussing
i'm have trouble understanding it.
bob w1ltx

[Non-text portions of this message have been removed]

22362. RE: [TS-520_820_530_830] Re: ts 520 tuning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-09 20:26:04 UTC
From: Rick Klinge
Topic: 22357 Message: 22362

Woops.. sorry about the miss information. I wasn't sure of the question.

73's

Rick

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of skyhawk579
Sent: Wednesday, September 09, 2009 1:32 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: ts 520 tuning

--- In TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com> , "w1ltx" <w1ltx1@...> wrote:
>
> hello
> i just got a ts 520 kenwood and don't have a clue how to tune it the
manual is confussing i'm have trouble understanding it.
> bob w1ltx
>

http://www.k4eaa.com/tune-upP.htm

73's

Rick

[Non-text portions of this message have been removed]

22363. Re: [TS-520_820_530_830] ts 520 tuning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-09 20:37:08 UTC
From: k5lcl@sbcglobal.net
Topic: 22357 Message: 22363

Maybe this will help. This is what I use for my TS-820, but most of it should apply to your 520. The Bias setting MAY be different, but it should be stated in your manual. I hope the formatting comes through.

Mode Switch
Meter Switch
Stand-By Switch
Procedure

USB or LSB
IP
Send
Adjust Bias control to 60 ma. (Usually you only have to do this once, then you will do 3 steps below on each tune up session)

TUN
ALC
Send
Peak the ALC reading with the DRIVE Control

TUN
IP
Send
Quickly adjust the PLATE Control to minimum meter reading (Dipping the meter)

CW
RF
Send
Peak RF Output by alternately adjusting the PLATE and LOAD Controls

Best of luck

73 de K5LCL

----- Original Message -----

From: w1ltx
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, September 09, 2009 12:30 PM
Subject: [TS-520_820_530_830] ts 520 tuning

hello
i just got a ts 520 kenwood and don't have a clue how to tune it the manual is confussing i'm have trouble understanding it.
bob w1ltx

[Non-text portions of this message have been removed]

22364. RE: [TS-520_820_530_830] VOX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-09 20:50:10 UTC
From: Dick Merryman
Topic: 22310 Message: 22364

Nope, no amplified mike. I use the MC-50 on my TS-520S and the Yaesu MD-100 on my 1000MP and they both act the same. VOX is just too much trouble to be worthwhile. Heaven forbid if you have a cold or the sniffles or have to clear your throat or the phone rings, etc., etc., etc.

-Dick-
N3XRU

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Martin
Sent: Wednesday, September 09, 2009 9:50 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] VOX

Hi Dick. What kind of mic are you using? If its an amplified mic I am not too surprised. You need a really quiet room. The amplified D-104 mics seem to be especially sensitive to the slightest sound. The best advice I can give you is to try setting the gain control on the mic almost off, and adjust the mic gain on the radio. VOX operation can be problematical. You must be careful not to get into the bad habit of saying ahhh, ohhh, ummm, etc...to keep the radio keyed when you want to pause longer than the VOX delay. Also, sounds in the room keying the radio is not uncommon. If you choose to use VOX (I don't recommend it) you should keep the VOX switch turned off when not actually making a QSO.

The only time I use VOX is ti key the radio when using digital modes like PSK-31.

TTYL

Dick Merryman wrote:
> I need to have someone explain how to properly use VOX. I've tried and
> tried and cannot get it adjusted correctly. It is either so sensitive that
> my breathing sets it off or putting a pencil down on the table sets it off
> or so insensitive that it misses the first syllable before activating.
>
> It's a real PIA and consequently I don't even bother with it anymore.
>
> -Dick-
>
>
>
> [Non-text portions of this message have been removed]
>
>

>

[Non-text portions of this message have been removed]

22365. Re: [TS-520_820_530_830] VOX

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-10 02:18:27 UTC
From: martin
Topic: 22310 Message: 22365

Hi Dick. I agree with you about using VOX for SSB voice. Others may
feel differently.

TTYL

Dick Merryman wrote:
> Nope, no amplified mike. I use the MC-50 on my TS-520S and the Yaesu MD-100
> on my 1000MP and they both act the same. VOX is just too much trouble to be
> worthwhile. Heaven forbid if you have a cold or the sniffles or have to
> clear your throat or the phone rings, etc., etc., etc.
>
> -Dick-

>
>
> Hi Dick. What kind of mic are you using? If its an amplified mic I am
> not too surprised. You need a really quiet room. The amplified D-104
> mics seem to be especially sensitive to the slightest sound. The best
> advice I can give you is to try setting the gain control on the mic
> almost off, and adjust the mic gain on the radio. VOX operation can be
> problematical. You must be careful not to get into the bad habit of
> saying ahhh, ohhh, ummm, etc...to keep the radio keyed when you want to
> pause longer than the VOX delay. Also, sounds in the room keying the
> radio is not uncommon. If you choose to use VOX (I don't recommend it)
> you should keep the VOX switch turned off when not actually making a QSO.
>
> The only time I use VOX is ti key the radio when using digital modes
> like PSK-31.
>
> TTYL

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

22366. Re: [TS-520_820_530_830] ts 520 tuning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-09 21:24:02 UTC
From: robert sessums
Topic: 22357 Message: 22366

thanks guys for the help.
w1ltx

On Wed, Sep 9, 2009 at 1:37 PM, <k5lcl@...> wrote:

>
>
> Maybe this will help. This is what I use for my TS-820, but most of it
> should apply to your 520. The Bias setting MAY be different, but it should
> be stated in your manual. I hope the formatting comes through.
>
> Mode Switch
> Meter Switch
> Stand-By Switch
> Procedure
>
> USB or LSB
> IP
> Send
> Adjust Bias control to 60 ma. (Usually you only have to do this once, then
> you will do 3 steps below on each tune up session)
>
> TUN
> ALC
> Send
> Peak the ALC reading with the DRIVE Control
>
> TUN
> IP
> Send
> Quickly adjust the PLATE Control to minimum meter reading (Dipping the
> meter)
>
> CW
> RF
> Send
> Peak RF Output by alternately adjusting the PLATE and LOAD Controls
>
>
> Best of luck
>
> 73 de K5LCL
>
>
> ----- Original Message -----

>
> From: w1ltx
> To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> Sent: Wednesday, September 09, 2009 12:30 PM
> Subject: [TS-520_820_530_830] ts 520 tuning
>
> hello
> i just got a ts 520 kenwood and don't have a clue how to tune it the manual
> is confussing i'm have trouble understanding it.
> bob w1ltx
>
> [Non-text portions of this message have been removed]
>
>
>

[Non-text portions of this message have been removed]

22367. Re: [TS-520_820_530_830] ts 520 tuning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-10 06:43:59 UTC
From: Gordon JC Pearce
Topic: 22357 Message: 22367

On Wed, 2009-09-09 at 18:31 +0000, NEIL SAUNDERS wrote:
> Hi dead easy once you have done it couple of times switch band to
> frequency desired i always peak drive control to maximum recieve first
> i leave the load control at about 11 o clock set meter to rf power
> switch to tune dip plate on key up to obtain peak power ,then dip the
> ip . thats enough to get useful power you can then play around fine
> tuning if you want to and thats it .hope that helps .

Don't forget that the LOAD control (and to a lesser extent PLATE) will be affected by the load on the transmitter. Before long you get a feel for where the controls need to be for a "good start" on tuning up, just needing a quick tweak to bring them properly into tune. If you switch aerials, the loading may well be different. It shouldn't be but it is ;-)

If you've ever driven a car with a manual choke, it's a bit like that - before long you get to know exactly how much choke and where the throttle needs to be to start in any given conditions.

Gordon MM0YEQ

22368. Re: [TS-520_820_530_830] ts 520 tuning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-10 14:01:59 UTC
From: martin
Topic: 22357 Message: 22368

Hi. This is why you ALWAYS ALWAYS tune up into a dummy load!

TTYL

Gordon JC Pearce wrote:
> If you switch
> aerials, the loading may well be different. It shouldn't be but it
> is ;-)
>

> Gordon MM0YEQ
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

22369. Analog Dial Parts

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-10 15:55:18 UTC
From: blacklabpupp
Topic: 22369 Message: 22369

Should the dial gears be oiled or white gease added to them at any time? I noticed that on one section of the dail that it makes a noise. I cant feel it in the tuning knob but wondered if some type of maintanace should be done once in a while. Gene

22370. Re: ts 520 tuning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-10 16:15:56 UTC
From: atm_ken_hunter
Topic: 22357 Message: 22370

--- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@...> wrote:
>
> Hi. This is why you ALWAYS ALWAYS tune up into a dummy load!
>
> TTYL

Hmmm... Tuning up into a dummy load is going to allow me to then switch over to my 600 ohm non-resonant, random antenna and have a matched system? I don't think so, I'll still have to tune to the actual antenna system.

Tuning into the dummy load only applies to a situation where the dummy load and antenna systen present the same load to the transmitter. This happens very rarely so tuning into a dummy load each time can be counterproductive.

You can however tune into a dummy load to get your transmitter set up for a 50 ohm load (if that is what you desire) then you can prune the antenna, add a BALUN etc to match those conditions as best as possible. If this is done, the antenna system would be a better match to the 50 ohm dummy load settings and again, tuning into the dummy load would be an un-necessary step.

The best reason for tuning into a dummy load is to keep the bands clear of un-identified carrier transmissions that may be interfering with QSO's or other communications already in progress.

For tuning a vacuum tube final...

While monitoring IP, check the idle bias current and peak the drive, then dip the plate, increase the loading then repeat the (dip-load) process until you get the plate current you want.

As you increase the loading, the plate dip becomes shallower, the dip will occur at a higher value and will become harder to define. You want to end up with a noticable dip at the recommended Plate Current.

If you do not get to the recommended IP value AT THE DIP using the plate tune and loading controls, the drive is insufficient or the final tubes are losing the ability to amplify the RF signal at the operating frequency (they are going soft or possibly, RF Final circuit components are geting old and changing value).

73, best of DX to all

Ken Hunter - KB7H

22371. Re: [TS-520_820_530_830] ts 520 tuning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-10 16:54:28 UTC
From: Gordon JC Pearce
Topic: 22357 Message: 22371

On Thu, 2009-09-10 at 09:01 -0500, martin wrote:
> Hi. This is why you ALWAYS ALWAYS tune up into a dummy load!
>

... and then retune once you connect the antenna?

Otherwise your LOAD tuning is likely to be well off.

Gordon MM0YEQ

22372. RE: [TS-520_820_530_830] Re: ts 520 tuning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-10 17:02:50 UTC
From: Greg Anders
Topic: 22357 Message: 22372

For what it is worth.

In the case of a system with a vacuum tubed final running thru a tuner to any antenna, I always want to set up my tuner to present a 50 ohm load to my transceiver before ever tuning my finals.

Why? Because if you put stress on your finals (6146's or sweep tubes) if you take 2-3 minutes tuning the tuner to present a 50 ohm load to the transceiver using the finals and your SWR bridge.

My solution is to switch into the stream my good old MFJ 259 antenna analyzer betwwn my tuner and rig. I set the band/freq on my analyzer and twiddle my tuner knobs till I get 1:1 and 50 ohms. No carrier on the air (nobody gets pissed) and no wear on my finals.

Then I switch back to the radio and fine tune my finals (dip and load) for 100W.

The MFJ sits on the table and is permanently plugged into a coax switch so I can adjust it and then select the transceiver of choice.

FYI,

Greg

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of atm_ken_hunter
Sent: Thursday, September 10, 2009 9:16 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: ts 520 tuning

--- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, martin <kb0hae@...> wrote:
>
> Hi. This is why you ALWAYS ALWAYS tune up into a dummy load!
>
> TTYL

Hmmm... Tuning up into a dummy load is going to allow me to then switch over to my 600 ohm non-resonant, random antenna and have a matched system? I don't think so, I'll still have to tune to the actual antenna system.

Tuning into the dummy load only applies to a situation where the dummy load and antenna systen present the same load to the transmitter. This happens very rarely so tuning into a dummy load each time can be counterproductive.

You can however tune into a dummy load to get your transmitter set up for a 50 ohm load (if that is what you desire) then you can prune the antenna, add a BALUN etc to match those conditions as best as possible. If this is done, the antenna system would be a better match to the 50 ohm dummy load settings and again, tuning into the dummy load would be an

un-necessary step.

The best reason for tuning into a dummy load is to keep the bands clear of un-identified carrier transmissions that may be interfering with QSO's or other communications already in progress.

For tuning a vacuum tube final...

While monitoring IP, check the idle bias current and peak the drive, then dip the plate, increase the loading then repeat the (dip-load) process until you get the plate current you want.

As you increase the loading, the plate dip becomes shallower, the dip will occur at a higher value and will become harder to define. You want to end up with a noticable dip at the recommended Plate Current.

If you do not get to the recommended IP value AT THE DIP using the plate tune and loading controls, the drive is insufficient or the final tubes are losing the ability to amplify the RF signal at the operating frequency (they are going soft or possibly, RF Final circuit components are geting old and changing value).

73, best of DX to all

Ken Hunter - KB7H

[Non-text portions of this message have been removed]

22373. Question abt 599D twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-10 18:19:15 UTC
From: medical35
Topic: 22373 Message: 22373

Hello,
I have the 599D twins on the way and want to be ready for them.
My question is about the antenna interconnect cable. NOT the sixteen pin cable. I know it has that.
I don't think it has the antenna interconnect cable. Or at least that's what most people call it.
My question is this: Can I just use an RG8X or RG 58 coax cable jumper with a pl 259 on one end and a motorola plug on the other end?
That's all it looks like it is to me.
On the back of the RCVR in the pictures it looks like an so 239 and on the back of the XMITER it looks like a motorola plug. Is that correct?
Thank you for your help,
Jim - K4KOR

22374. Re: [TS-520_820_530_830] Question abt 599D twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-10 22:50:22 UTC
From: Jim Stanicek
Topic: 22373 Message: 22374

Do you have the manuals for the twins, or are you getting them with the radios?

The transmitter appears to have a separate jack for the receiver, so they can be used in a transceiver mode. I am not sure that the jack is a "motorola" type or a more common RCA jack, as I have not had a close look at my newly arrived twins, yet, myself.

However, the instruction manual calls it a "single pin jack" and the receiver itself has a SO-239 jack which is to be linked to that receiver jack on the transmitter.

I wouldn't think you would have any problem whatsoever with either 50 or 75 ohm coax and the proper connector (either Motorola or RCA on one end, and a PL-259 on the other). The cable is not really all that critical, since you are feeding a receiver with the T/R mute relay inside the transmitter !

I am just putting some pilot lights in my radios, as the receiver is totally dark. Got them from Mouser.

In fact, if we need help from one another or other owners of the twins, this is a great group to be a member of.

73 for now, let me know of your progress.

Jim AG3Y

----- Original Message -----
From: medical35
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, September 10, 2009 2:19 PM
Subject: [TS-520_820_530_830] Question abt 599D twins

Hello,
I have the 599D twins on the way and want to be ready for them.
My question is about the antenna interconnect cable. NOT the sixteen pin cable. I know it has that.
I don't think it has the antenna interconnect cable. Or at least that's what most people call it.
My question is this: Can I just use an RG8X or RG 58 coax cable jumper with a pl 259 on one end and a motorola plug on the other end?
That's all it looks like it is to me.
On the back of the RCVR in the pictures it looks like an so 239 and on the back of the XMITER it looks like a motorola plug. Is that correct?
Thank you for your help,
Jim - K4KOR

[Non-text portions of this message have been removed]

22375. Kenwood TL-922 Band Switch

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-10 23:24:09 UTC
From: n6wk_skcc3
Topic: 22375 Message: 22375

I have a TL-922 here that has a burnt Band switch. I think it is repairable if I can find someone to sell me their old burnt band switch that I can use for parts.
Does anyone have an Old discarded burnt TL-922 band switch to sell?
Or even a good used one?
Thanks,
Gordon
N6Wk

22376. No ALC meter action 820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-10 23:29:33 UTC
From: trippkj4bkd
Topic: 22376 Message: 22376

Hello,

Can't get any ALC meter action when switched to tune mode with meter selection on ALC. Can get ALC with SG switch turned off. Meter pegs to left when meter switch is in IP. Replaced tubes,still same thing. Service manual says to check Q5 2SC1515 on RF board. What voltages should I check for on Q5? Also to check finals for no dip in IP. Screen grid resitors possibly? Haven't checked them yet.

I was tunning on 20 meters when problem occurd. SWR was 6:1 was trying to get it down for only a few moments when I got a small pop noise and lights dimed on rig for a moment. No smoke smell or burning. Then everything seemed normal except for symptoms above. Please advise.

What else should I check.

Thanks for any assistance.
Tripp
KJ4BKD

22377. Re: [TS-520_820_530_830] Question abt 599D twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-10 23:48:58 UTC
From: n6wk@n6wk.com
Topic: 22373 Message: 22377

I have Very nice copies of the Manuals for the twins on my Kenwood
manuals Website for FREE download.

www.n6wk.com/kenwood

73,
Gordon
N6WK

Jim Stanicek wrote:
>
>
> Do you have the manuals for the twins, or are you getting them with
> the radios?
>
> The transmitter appears to have a separate jack for the receiver, so
> they can be used in a transceiver mode. I am not sure that the jack is
> a "motorola" type or a more common RCA jack, as I have not had a close
> look at my newly arrived twins, yet, myself.
>
> However, the instruction manual calls it a "single pin jack" and the
> receiver itself has a SO-239 jack which is to be linked to that
> receiver jack on the transmitter.
>
> I wouldn't think you would have any problem whatsoever with either 50
> or 75 ohm coax and the proper connector (either Motorola or RCA on
> one end, and a PL-259 on the other). The cable is not really all that
> critical, since you are feeding a receiver with the T/R mute relay
> inside the transmitter !
>
> I am just putting some pilot lights in my radios, as the receiver is
> totally dark. Got them from Mouser.
>
> In fact, if we need help from one another or other owners of the
> twins, this is a great group to be a member of.
>
> 73 for now, let me know of your progress.
>
> Jim AG3Y
>
> ----- Original Message -----
> From: medical35
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Thursday, September 10, 2009 2:19 PM
> Subject: [TS-520_820_530_830] Question abt 599D twins

>
> Hello,
> I have the 599D twins on the way and want to be ready for them.
> My question is about the antenna interconnect cable. NOT the sixteen
> pin cable. I know it has that.
> I don't think it has the antenna interconnect cable. Or at least
> that's what most people call it.
> My question is this: Can I just use an RG8X or RG 58 coax cable jumper
> with a pl 259 on one end and a motorola plug on the other end?
> That's all it looks like it is to me.
> On the back of the RCVR in the pictures it looks like an so 239 and on
> the back of the XMITER it looks like a motorola plug. Is that correct?
> Thank you for your help,
> Jim - K4KOR
>
> [Non-text portions of this message have been removed]
>
> _

22378. Re: Maintenance turns into death.TS-830S 12 volt buss supply

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-11 00:32:20 UTC
From: ki6nda
Topic: 22308 Message: 22378

Hi Mike,

Things got busy around here. Roger on all. I've pulled one leg of D12 on the rectifier board, and tested. It's good. Also SG switch is in the ON position. I'm starting to feel the discouragement creep in. I was hoping this would be easy, and it's not looking that way anymore. Darned if I know what I did to it! I'll continue poking around.

Thanks for sticking with me!

73's, Jerry KI6NDA

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Jerry,
>
> Q34 crumbling in your hands as you remove it? That's an indication of excessive current flowing through Q34 due to a short to ground across the 12VDC supply (12 terminal on the AF UNIT). That's why the digital display didn't work, no receive, and only the dial lamps and tube filaments lit when power was applied. Remember, Q34 produces 12VDC that is fed to Q30 which produces 9VDC. If Q34 fails, all of the LV (3.2VDC, 9VDC, and 12VDC) supplies also fail resulting in your 830 being dead.
>
> I recommend checking D12 on the Rectifier Unit. If D12 is found to be bad, a 1N4007 will do fine as a replacement. Also, if D12 is found to be bad, make sure you install the replacement diode correctly (banded lead connected to the "12" terminal on the Rectifier Unit).
>
> I also recommend checking the rear panel's SG switch. It should be in the "ON" position.
>
> To check D12, pull one lead of D12 from the Rectifier Unit's circuit board. Do not assume D12 is fine simply by looking at it. Diodes can fail, open or short internally, and they will look fine on the outside.
>
> 73's
> Mike W5RKL
>

22379. Re: [TS-520_820_530_830] Re: ts 520 tuning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-11 01:19:28 UTC
From: martin
Topic: 22357 Message: 22379

Hi. See my comments below.

atm_ken_hunter wrote:
> --- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@...>
> wrote:
>> Hi. This is why you ALWAYS ALWAYS tune up into a dummy load!
>>
>> TTYL
>
> Hmmm... Tuning up into a dummy load is going to allow me to then
> switch over to my 600 ohm non-resonant, random antenna and have a
> matched system? I don't think so, I'll still have to tune to the
> actual antenna system.

Actually not if you do things correctly. Your antenna system should
be set up to present a 50 ohm load to the transceiver, as that is what
the transceiver is designed for. You can use a balun, or a tuner.
>
> Tuning into the dummy load only applies to a situation where the
> dummy load and antenna systen present the same load to the
> transmitter. This happens very rarely so tuning into a dummy load
> each time can be counterproductive.

See above.
>
> You can however tune into a dummy load to get your transmitter set
> up for a 50 ohm load (if that is what you desire) then you can
> prune the antenna, add a BALUN etc to match those conditions as
> best as possible. If this is done, the antenna system would be a
> better match to the 50 ohm dummy load settings and again, tuning
> into the dummy load would be an un-necessary step.

No, tuning into the dummy load IS ALWAYS a necessary step, for just
the reason you give in the next paragraph.
>
> The best reason for tuning into a dummy load is to keep the bands
> clear of un-identified carrier transmissions that may be
> interfering with QSO's or other communications already in progress.
>
>

>
> Ken Hunter - KB7H
>

TTYL Ken.
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

22380. Re: No ALC meter action 820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-11 02:06:33 UTC
From: w5rkl
Topic: 22376 Message: 22380

Tripp,

The "popping" sound you heard was R2 and R3 on the bottom of the final unit burning "open". Both resistors are 10 ohms 1 watt each and are wired in parallel resulting in a total cathode resistor value of 5 ohms. Replace both resistors with new 10 ohm 1 watt resistors.

Do not increase the wattage of R2 and R3.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "trippkj4bkd" <thomasenglish3@...> wrote:
>
> Hello,
>
> Can't get any ALC meter action when switched to tune mode with meter selection on ALC. Can get ALC with SG switch turned off. Meter pegs to left when meter switch is in IP. Replaced tubes,still same thing. Service manual says to check Q5 2SC1515 on RF board. What voltages should I check for on Q5? Also to check finals for no dip in IP. Screen grid resitors possibly? Haven't checked them yet.
>
> I was tunning on 20 meters when problem occurd. SWR was 6:1 was trying to get it down for only a few moments when I got a small pop noise and lights dimed on rig for a moment. No smoke smell or burning. Then everything seemed normal except for symptoms above. Please advise.
>
> What else should I check.
>
> Thanks for any assistance.
> Tripp
> KJ4BKD
>

22381. Re: Maintenance turns into death.TS-830S 12 volt buss supply

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-11 03:12:57 UTC
From: w5rkl
Topic: 22308 Message: 22381

Evening Jerry,

It's quite obvious something appears to have short circuited the 12VDC supply for Q34 to be destroyed (crumbled in your hands). I doubt Q30 is bad, although checking it would be a good idea. Q30 is the same as Q34, both are 2SA473Ys.

Since you can get the 2SA473 rather easily and at a low cost, I would pick up a few, 3 or 4, from the source I provide you in the last response. I also would replace D26, 9 volt zener, as well. Any 500ma or higher rated 9 volt zener will work as a replacement for D26.

However, before replacing any component(s), I recommend tracing the 12VDC supply lines, looking for any short that would have caused Q34 to be destroyed.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "ki6nda" <jergood@...> wrote:
>
>
> Hi Mike,
>
> Things got busy around here. Roger on all. I've pulled one leg of D12
> on the rectifier board, and tested. It's good. Also SG switch is in
> the ON position. I'm starting to feel the discouragement creep in. I
> was hoping this would be easy, and it's not looking that way anymore.
> Darned if I know what I did to it! I'll continue poking around.
>
> Thanks for sticking with me!
>
> 73's, Jerry KI6NDA
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Jerry,
> >
> > Q34 crumbling in your hands as you remove it? That's an indication of
> excessive current flowing through Q34 due to a short to ground across
> the 12VDC supply (12 terminal on the AF UNIT). That's why the digital
> display didn't work, no receive, and only the dial lamps and tube
> filaments lit when power was applied. Remember, Q34 produces 12VDC that
> is fed to Q30 which produces 9VDC. If Q34 fails, all of the LV (3.2VDC,
> 9VDC, and 12VDC) supplies also fail resulting in your 830 being dead.
> >

> > I recommend checking D12 on the Rectifier Unit. If D12 is found to be
> bad, a 1N4007 will do fine as a replacement. Also, if D12 is found to be
> bad, make sure you install the replacement diode correctly (banded lead
> connected to the "12" terminal on the Rectifier Unit).
> >
> > I also recommend checking the rear panel's SG switch. It should be in
> the "ON" position.
> >
> > To check D12, pull one lead of D12 from the Rectifier Unit's circuit
> board. Do not assume D12 is fine simply by looking at it. Diodes can
> fail, open or short internally, and they will look fine on the outside.
> >
> > 73's
> > Mike W5RKL
> >
>

22382. Fixed frequency Crystals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-11 03:55:09 UTC
From: Jojo Vicencio DV1VHY
Topic: 22382 Message: 22382

I plan on getting fixed crystals for the TS-520 for two net frqs. Does anybody know what formula I need to use, or where the formula is located, to arrive at the frequency I want?

73,

jojo

[Non-text portions of this message have been removed]

22383. Re: Maintenance turns into death.TS-830S 12 volt buss supply

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-11 04:18:28 UTC
From: ki6nda
Topic: 22308 Message: 22383

Evening Mike,

My thoughts exactly. I have 4 of the 2SA473 on the way. And I'm thinking of purchasing the full electrolitic cap kit availible on e-bay. I might as well swap out all the filter caps on ALL the supplys in the rig. I already have the HV cap kit from Ken. I'll see about picking up the zener (D26) too.

I'm pretty sure the only way to properly test Q30 is to pull it, and I'll do this. Next, I'm thinking of pulling that un-numbered test point on the 12.5vdc buss off the board. It has the three wires going out to other points on the rig (counter, rf board, rectifier board, etc). Then selectivly check each line. This will also tell me if the short is really on the AF board, even if I don't see how it could be. At least this is what I'm thinking. And I agree, no parts replaced until the short is located. Time for more shopping. :>)

Thanks again.

73's, Jerry KI6NDA

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Evening Jerry,
>
> It's quite obvious something appears to have short circuited the 12VDC supply for Q34 to be destroyed (crumbled in your hands). I doubt Q30 is bad, although checking it would be a good idea. Q30 is the same as Q34, both are 2SA473Ys.
>
> Since you can get the 2SA473 rather easily and at a low cost, I would pick up a few, 3 or 4, from the source I provide you in the last response. I also would replace D26, 9 volt zener, as well. Any 500ma or higher rated 9 volt zener will work as a replacement for D26.
>
> However, before replacing any component(s), I recommend tracing the 12VDC supply lines, looking for any short that would have caused Q34 to be destroyed.
>
> 73s
> Mike W5RKL
>
>

22384. Re: [TS-520_820_530_830] Fixed frequency Crystals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-11 05:44:25 UTC
From: Don Thomas
Topic: 22382 Message: 22384

Fixed crystals as long as the net doesn't have to shift due to QRM will work, but if they have to shift a few Khz then you have to tune anyway.

Don

--- On Thu, 9/10/09, Jojo Vicencio DV1VHY <jojo@...> wrote:

From: Jojo Vicencio DV1VHY <jojo@...>
Subject: [TS-520_820_530_830] Fixed frequency Crystals
To: "TS520 Group" <TS-520_820_530_830@yahoogroups.com>
Date: Thursday, September 10, 2009, 10:55 PM

I plan on getting fixed crystals for the TS-520 for two net frqs. Does anybody know what formula I need to use, or where the formula is located, to arrive at the frequency I want?

73,

jojo

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

22385. Re: [TS-520_820_530_830] Re: ts 520 tuning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-11 05:54:05 UTC
From: Robert DROGOUL
Topic: 22357 Message: 22385

Hi,
Well, there should be no discution about the dummy load tuning procedure.
My actual setup is a vertical 30 feet antenna up to 86 feet over groud on a metal roof, a Yaesu TRx FT-902, a Drake MN-75 tuner or an LDG Z11 Pro auto tuner.
I made a table with the loading position for max out in a 50 ohms dummy load, and I put also the MN-75 tune postion for each bands, so once done, it take me less than 10 s to change band with the manual tuner. With the Z11 it is faster once the PA is dipped and loaded.
I do not see how tuning in a 50 dummy load will able you to use a 600 ohms antena!!!
How can you do that?
I would like to know the trick!!!
73 good day!

F5UL - Robert DROGOUL
Ref-Union - ARRL - NAQCC - Loc : JN35BV
Signataire de la Charte Union des Télégraphistes Francophones

[Non-text portions of this message have been removed]

22386. Re: [TS-520_820_530_830] Re: ts 520 tuning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-11 06:33:54 UTC
From: Gordon JC Pearce
Topic: 22357 Message: 22386

On Thu, 2009-09-10 at 20:19 -0500, martin wrote:
> Hi. See my comments below.
>
> atm_ken_hunter wrote:
> > --- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@...>
> > wrote:
> >> Hi. This is why you ALWAYS ALWAYS tune up into a dummy load!
> >>
> >> TTYL
> >
> > Hmmm... Tuning up into a dummy load is going to allow me to then
> > switch over to my 600 ohm non-resonant, random antenna and have a
> > matched system? I don't think so, I'll still have to tune to the
> > actual antenna system.
>
> Actually not if you do things correctly. Your antenna system should
> be set up to present a 50 ohm load to the transceiver, as that is what
> the transceiver is designed for. You can use a balun, or a tuner.

So, how do you tune up the tuner, without transmitting through the
aerial?

How does tuning up the tuner differ from tuning up the PA?

Gordon MM0YEQ

22387. Re: [TS-520_820_530_830] Re: ts 520 tuning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-11 07:25:21 UTC
From: Lou Blasco
Topic: 22357 Message: 22387

I think what Martin is trying to say is by tuning into a dummy load your load/tune/drive controls will always end up adjusted to around the same point for a given band. Once you've done that you can use the tuner to match your aerial to what looks like 50 ohms (something like a constant) when you look back into the transmitter. IF your aerial stays the same AND your transmitter adjustments are repeatable AND you use the same tuner whose settings are also repeatable you can draw up a table of settings that allows you to quickly adjust your equipment for a given band or frequency. At some point you must put your radio on the air to confirm that your settings are correct and your VSWR is within acceptable limits but hopefully the need to tune up on air should be greatly minimized.

I've tried Martins method and it does lead to more repeatable settings in the radio and tuner but it's never exactly right. I still need to get some RF up the aerial and fiddle either the transmitter settings or the tuner settings to get it right. I'm sure this method would work much better if my one and only aerial presented the same load to my radio on all bands and frequencies but in reality it doesn't and I'm sure many of us are in the same boat. Robert asked how it will help with his 600 ohm aerial. Well it will if there is a tuner in between the transmitter and the aerial.

Martin's point is to minimize interference that tuning up on air may cause to others. His method helps to achieve this objective.

Lou
VK3ALB

At 04:33 PM 11/09/2009, you wrote:
>On Thu, 2009-09-10 at 20:19 -0500, martin wrote:
> > Hi. See my comments below.
> >
> > atm_ken_hunter wrote:
> > > --- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@...>
> > > wrote:
> > >> Hi. This is why you ALWAYS ALWAYS tune up into a dummy load!
> > >>
> > >> TTYL
> > >
> > > Hmmm... Tuning up into a dummy load is going to allow me to then
> > > switch over to my 600 ohm non-resonant, random antenna and have a
> > > matched system? I don't think so, I'll still have to tune to the
> > > actual antenna system.
> >
> > Actually not if you do things correctly. Your antenna system should

> > be set up to present a 50 ohm load to the transceiver, as that is what
> > the transceiver is designed for. You can use a balun, or a tuner.
>
>So, how do you tune up the tuner, without transmitting through the
>aerial?
>
>How does tuning up the tuner differ from tuning up the PA?
>
>Gordon MM0YEQ
>
>
>
>------------------------------------
>
>Yahoo! Groups Links
>
>
>

[Non-text portions of this message have been removed]

22388. Re: [TS-520_820_530_830] Question abt 599D twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-11 07:47:37 UTC
From: pmarkavage
Topic: 22373 Message: 22388

The receive jack on the back of the T-599D transmitter is called a RCA or phono type jack. Since the run between receiver and transmitter is generally short, you can use just about any shielded cable to interconnect. I used an old cable that use to connect one channel of a Hi-Fi tuner to one channel of a stereo amplifier. I just chopped off one end and added a PL-259 to mate with the receiver SO-239 jack.

Pete, wa2cwa
http://www.manualman.com

On Thu, 10 Sep 2009 18:19:15 -0000 "medical35" <medical35@...>
writes:
> Hello,
> I have the 599D twins on the way and want to be ready for
> them.
> My question is about the antenna interconnect cable. NOT the sixteen
> pin cable. I know it has that.
> I don't think it has the antenna interconnect cable. Or at
> least that's what most people call it.
> My question is this: Can I just use an RG8X or RG 58 coax
> cable jumper with a pl 259 on one end and a motorola plug on the
> other end?
> That's all it looks like it is to me.
> On the back of the RCVR in the pictures it looks like an
> so 239 and on the back of the XMITER it looks like a motorola plug.
> Is that correct?
> Thank you for your help,
> Jim - K4KOR

22389. Re: [TS-520_820_530_830] Question abt 599D twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-11 13:04:15 UTC
From: Kurt Cathcart
Topic: 22373 Message: 22389

Pete, Jim,

What I did was to use an extra piece of RG8X. I soldered an RCA plug on one side and a PL259 on the other. Works great.

-Kurt
kr2c

----- Original Message -----
From: pmarkavage
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, September 11, 2009 3:47 AM
Subject: Re: [TS-520_820_530_830] Question abt 599D twins

The receive jack on the back of the T-599D transmitter is called a RCA or phono type jack. Since the run between receiver and transmitter is generally short, you can use just about any shielded cable to interconnect. I used an old cable that use to connect one channel of a Hi-Fi tuner to one channel of a stereo amplifier. I just chopped off one end and added a PL-259 to mate with the receiver SO-239 jack.

Pete, wa2cwa
http://www.manualman.com

On Thu, 10 Sep 2009 18:19:15 -0000 "medical35" <medical35@...>
writes:
> Hello,
> I have the 599D twins on the way and want to be ready for
> them.
> My question is about the antenna interconnect cable. NOT the sixteen
> pin cable. I know it has that.
> I don't think it has the antenna interconnect cable. Or at
> least that's what most people call it.
> My question is this: Can I just use an RG8X or RG 58 coax
> cable jumper with a pl 259 on one end and a motorola plug on the
> other end?
> That's all it looks like it is to me.
> On the back of the RCVR in the pictures it looks like an
> so 239 and on the back of the XMITER it looks like a motorola plug.
> Is that correct?
> Thank you for your help,
> Jim - K4KOR

[Non-text portions of this message have been removed]

22390. Re: Fixed frequency Crystals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-11 13:16:24 UTC
From: w5rkl
Topic: 22382 Message: 22390

Hello Jojo,

Fixed crystal operation replaces the VFO and depends on the FUNCTION switch setting along with the FIX CH switch setting on the front panel. The following is an explanation of each fixed crystal FUNCTION switch settings:

VFO-R

This setting, the fixed crystal controls the transmit frequency and the VFO controls the receive frequency.

FIX-R

This setting, the fixed crystal controls the receive frequency and the VFO controls the transmit frequency.

FIX

This setting, both transmit AND receive frequency is controlled by the crystal. The VFO is not used.

The formula for calculating the frequency of a fixed crystal is as follows:

LSB

5.5015 + x - operating frequency

USB

5.4985 + x - operating frequency

CW
5.5 + x - operating frequency

"x" is the band switch setting. For example, 3.5 for 80 meters, 7 for 40 meters and so on.

The crystal holder is HC-25/U

The fixed crystal will operate on ALL bands. The formula to determine what frequency a specific crystal will operate on, say, 20 meters USB is as follows:

USB on 20 meters

5.4985 + 14 - <crystal frequency> = operating frequency. The number "14" in the formula, again, is the 20 meter band switch setting.

Each FIX CH AVR crystal socket is labeled and each crystal socket has a trimmer. The trimmers for each crystal socket are as follows:

Fixed crystal socket 1, the trimmer is TC1

Fixed crystal socket 2, the trimmer is TC2

Fixed crystal socket 3, the trimmer is TC3

Fixed crystal socket 4, the trimmer is TC4

To "net", or move the crystal frequency by a "limited" range, adjust the individual crystal socket trimmer.

These and other operating details are clearly outlined in the 520 operating manual. If you do not have the operating manual, you can download the operator's manual, free, at the following website:

http://www.n6wk.com/kenwood/

Scroll down to the appropriate 520 link and click the link to download the manual.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Jojo Vicencio DV1VHY <jojo@...> wrote:
>
> I plan on getting fixed crystals for the TS-520 for two net frqs. Does anybody know what formula I need to use, or where the formula is located, to arrive at the frequency I want?
>
> 73,
>
> jojo
>
> [Non-text portions of this message have been removed]
>

22391. Re: [TS-520_820_530_830] Re: Fixed frequency Crystals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-11 13:42:24 UTC
From: Jojo Vicencio DV1VHY
Topic: 22382 Message: 22391

Mike,

Thank you so much. That is exactly what I was looking for. For some reason, I did not see the section of the formula in the manual. But, thank you so much.

73,

jojo

--- On Fri, 9/11/09, w5rkl <w5rkl@yahoo.com> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: Fixed frequency Crystals
To: TS-520_820_530_830@yahoogroups.com
Date: Friday, September 11, 2009, 9:16 PM

Hello Jojo,

Fixed crystal operation replaces the VFO and depends on the FUNCTION switch setting along with the FIX CH switch setting on the front panel. The following is an explanation of each fixed crystal FUNCTION switch settings:

VFO-R

This setting, the fixed crystal controls the transmit frequency and the VFO controls the receive frequency.

FIX-R

This setting, the fixed crystal controls the receive frequency and the VFO controls the transmit frequency.

FIX

This setting, both transmit AND receive frequency is controlled by the crystal. The VFO is not used.

The formula for calculating the frequency of a fixed crystal is as follows:

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5.5015 + x - operating frequency

USB

5.4985 + x - operating frequency

CW
5.5 + x - operating frequency

"x" is the band switch setting. For example, 3.5 for 80 meters, 7 for 40 meters and so on.

The crystal holder is HC-25/U

The fixed crystal will operate on ALL bands. The formula to determine what frequency a specific crystal will operate on, say, 20 meters USB is as follows:

USB on 20 meters

5.4985 + 14 - <crystal frequency> = operating frequency. The number "14" in the formula, again, is the 20 meter band switch setting.

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Fixed crystal socket 3, the trimmer is TC3

Fixed crystal socket 4, the trimmer is TC4

To "net", or move the crystal frequency by a "limited" range, adjust the individual crystal socket trimmer.

These and other operating details are clearly outlined in the 520 operating manual. If you do not have the operating manual, you can download the operator's manual, free, at the following website:

http://www.n6wk. com/kenwood/

Scroll down to the appropriate 520 link and click the link to download the manual.

73's
Mike W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, Jojo Vicencio DV1VHY <jojo@...> wrote:
>
> I plan on getting fixed crystals for the TS-520 for two net frqs. Does anybody know what formula I need to use, or where the formula is located, to arrive at the frequency I want?
>
> 73,
>
> jojo
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

22392. RE: [TS-520_820_530_830] Re: ts 520 tuning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-11 13:51:57 UTC
From: Greg Anders
Topic: 22357 Message: 22392

Gordon asked,

So, how do you tune up the tuner, without transmitting through the
aerial?

In my reply yesterday I described my "zero-power" tuning procedure using my MFJ SWR analyzer (259) switched in line with the tuner instead of my transceiver/transmitter. Just set your band frequency on the MFJ and adjust the tuner for 50ohms +/- 0j. Its especially useful when I put up a new antenna and have no idea where to set the tuner. The MFJ with the tuner allows plenty of time to figure it out without any worry of flattening out finals or radiating QRM on the bands.

BTW, the other advantage of having an SWR analyzer handy each time you tune up is that IF you are using a T-match tuner you can hit 50ohms +/- zero with a low/no SWR. If you only use an SWR meter, T-tuners can be tuned to low SWR with several different control settings. The one you choose may not be the right one.

FYI,

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Gordon JC Pearce
Sent: Thursday, September 10, 2009 11:34 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: ts 520 tuning

On Thu, 2009-09-10 at 20:19 -0500, martin wrote:
> Hi. See my comments below.
>
> atm_ken_hunter wrote:
> > --- In
TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, martin
<kb0hae@...>
> > wrote:
> >> Hi. This is why you ALWAYS ALWAYS tune up into a dummy load!
> >>
> >> TTYL
> >
> > Hmmm... Tuning up into a dummy load is going to allow me to then
> > switch over to my 600 ohm non-resonant, random antenna and have a
> > matched system? I don't think so, I'll still have to tune to the
> > actual antenna system.
>
> Actually not if you do things correctly. Your antenna system should
> be set up to present a 50 ohm load to the transceiver, as that is what

> the transceiver is designed for. You can use a balun, or a tuner.

So, how do you tune up the tuner, without transmitting through the aerial?

How does tuning up the tuner differ from tuning up the PA?

Gordon MM0YEQ

[Non-text portions of this message have been removed]

22393. Re: ts 520 tuning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-11 15:11:40 UTC
From: atm_ken_hunter
Topic: 22357 Message: 22393

At this point in the sunspot cycle there is so little QRM on the bands and seemingly nobody on some of the bands. If they are all really there and just tuning into their dummy loads then we just assume that the band is dead...

I'd prefer to hear someone tuning up on 15 or 6 meters than listen to a quiet band and assume there is no propagation... (I do realize there are 6 meter beacons). If I hear someone tuning up, I get ready to pounce on them for a QSO... Hi Hi

Ken - KB7H

22394. Re: Fixed frequency Crystals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-11 18:48:16 UTC
From: g7aqk
Topic: 22382 Message: 22394

Can anyone suggest a UK supplier for Kenwood compatible crystals?

Neil

G7AQK

22395. Re: [TS-520_820_530_830] Re: ts 520 tuning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-11 18:57:18 UTC
From: martin
Topic: 22357 Message: 22395

Hi Ken. Well, if everyone just listens, then the band may be presumed
to be dead. Someone has to put out a few CQ calls. :^))

In the absence of an antenna analyzer, then yes you must transmit into
the antenna through the tuner. I have (as others here have also) a
chart of the tuner settings for specific frequencies on each band. So
as long as the antenna has no problems, it takes maybe 2-3 very short
transmissions to set up my tuner. The point of using a dummy load is:

1-Minimize interference to ongoing QSOs that you may not hear.
2-Make sure that the transmitter is tuned properly for the 50 ohm load
it is designed for.

To use an antenna fed with 600 ohm feed line, a 12:1 balun is probably
the best solution.

TTYL

atm_ken_hunter wrote:
> At this point in the sunspot cycle there is so little QRM on the bands and seemingly nobody on some of the bands. If they are all really there and just tuning into their dummy loads then we just assume that the band is dead...
>
> I'd prefer to hear someone tuning up on 15 or 6 meters than listen to a quiet band and assume there is no propagation... (I do realize there are 6 meter beacons). If I hear someone tuning up, I get ready to pounce on them for a QSO... Hi Hi
>
> Ken - KB7H
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

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at http://www.defectivebydesign.org/what_is_drm"

22396. Re: No ALC meter action 820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-11 21:45:14 UTC
From: trippkj4bkd
Topic: 22376 Message: 22396

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Tripp,
>
> The "popping" sound you heard was R2 and R3 on the bottom of the final unit burning "open". Both resistors are 10 ohms 1 watt each and are wired in parallel resulting in a total cathode resistor value of 5 ohms. Replace both resistors with new 10 ohm 1 watt resistors.
>
> Do not increase the wattage of R2 and R3.
>
> 73's
> Mike W5RKL
>
>
>
>
>
Hey Mike,

Guess what, your diagnoses was dead on the money. Check with DVM shows an open on the 10 ohm resitors. The other resistors read normal. I will replace them and should be back on the air.
Thanks for the the advice which saved a lot of time.

Tripp
KJ4BKD

22397. Re: No ALC meter action 820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-11 22:05:30 UTC
From: w5rkl
Topic: 22376 Message: 22397

That's great Tripp, glad I could help.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "trippkj4bkd" <thomasenglish3@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Tripp,
> >
> > The "popping" sound you heard was R2 and R3 on the bottom of the final unit burning "open". Both resistors are 10 ohms 1 watt each and are wired in parallel resulting in a total cathode resistor value of 5 ohms. Replace both resistors with new 10 ohm 1 watt resistors.
> >
> > Do not increase the wattage of R2 and R3.
> >
> > 73's
> > Mike W5RKL
> >
> >
> >
> >
> >
> Hey Mike,
>
> Guess what, your diagnoses was dead on the money. Check with DVM shows an open on the 10 ohm resitors. The other resistors read normal. I will replace them and should be back on the air.
> Thanks for the the advice which saved a lot of time.
>
> Tripp
> KJ4BKD
>

22398. Re: [TS-520_820_530_830] Re: Help NO TX or RX on 15 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-11 23:31:21 UTC
From: Stephen Judd
Topic: 22147 Message: 22398

Hi Mike
Just had the opertunenity to replace both caps and no improvement I have noticed while place the send rec switch in send and then back to rec the needle slams to the right side of the meter this action does not accure on any other band anyways any more help would be appreciated thanks again
O Ya I am using a Eico VTVM with RF probe

Stephen/KB7BGS

--- On Mon, 8/24/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: Help NO TX or RX on 15 meters
To: TS-520_820_530_830@yahoogroups.com
Date: Monday, August 24, 2009, 7:53 PM

Check fixed cap C4 across L4 and C5 in series with C4/L4 to ground.

Just a thought.

73
Mike W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, Stephen Judd <swanradios@ ...> wrote:
>
> I have just place a VTVM in line off of test point 3 to make the alignment per repair manual for the oscillator coil on 15 meters and everything works perfect tuned great as soon as I remove the meter output drops to 15 watts
>
> Stephen/KB7BGS
>
> --- On Mon, 8/24/09, Greg Anders <greg.anders@ ...> wrote:
>
>
> From: Greg Anders <greg.anders@ ...>
> Subject: RE: [TS-520_820_ 530_830] Help NO TX or RX on 15 meters
> To: "TS-520_820_530_ 830@yahoogroups. com" <TS-520_820_530_ 830@yahoogroups. com>
> Date: Monday, August 24, 2009, 10:35 AM
>
>
>
>
>
>
>
> It is also possible that the heterodyne oscillator coil for the 15M band is out of alignement. If someone tweeked it past the "peak" point enough it would just stop oscillating and appear to be a dead crystal....

>
> Greg
>
> From: TS-520_820_530_ 830@yahoogroups. com [mailto:TS-520_ 820_530_ 830@yahoogroups.
com] On Behalf Of Daniel TOESCA
> Sent: Monday, August 24, 2009 9:31 AM
> To: TS-520_820_530_ 830@yahoogroups. com
> Subject: Re: [TS-520_820_ 530_830] Help NO TX or RX on 15 meters
>
> Stephen, Maybe the Xtal is dead - it happens often with Kenwood - Trio
> vintage gear. To be sure, find a place to check if there is RF output from
> the Xtak oscillator and change bands. If nothing on 15, you're in some
> trouble. If you have a scope, even a low frequency one, it's ok, you don't
> want to measure, just to check. Without a scope, build a simple RF sensor
> on the PC board with a germanium diode, a 2-10 pF coupling cap, a 10 k
> resistor and a 10 nF decoupling cap, plus your VOM, doesn't have to be
> digital, that's OK. Refer to the user's or service manual to find a
> suitable check point. Good luck & 73's - Daniel, ON5PY
>
> 2009/8/23, Stephen Judd <swanradios@ yahoo. com<mailto:swanradi os% 40yahoo.com> >:
> >
> >
> >
> > Hello All
> > I have a ts-520 with absolutly no tx or rx on 15 meters all other bands are
> > great very nice receive and transmit just nothing on 15 the crystal is there
> > and cleaned all wafer switches and relays any help will be great thanks 73
> > Stephen/KB7BGS
> >
> > ____________ _________ _________ _________ _________ __
> > Do You Yahoo!?
> > Tired of spam? Yahoo! Mail has the best spam protection around
> > http://mail. yahoo.com
> >
> > [Non-text portions of this message have been removed]
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> ___ ___ ___

22399. Yes I want to join

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-10 18:06:10 UTC
From: JM
Topic: 22399 Message: 22399

yes I want to join.

22400. Re: Question abt 599D twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-11 23:53:56 UTC
From: medical35
Topic: 22373 Message: 22400

Hello Kurt,
Thanks! That's what I needed to know. And thanks to everyone who responded.
The twins should be here tomorrow and I'll have that cable ready thanks to you.
"The twins will be here tomorrow!" Sounds like Hugh Hefner.
Thanks again,
Jim

--- In TS-520_820_530_830@yahoogroups.com, "Kurt Cathcart" <kurt@...> wrote:
>
> Pete, Jim,
>
> What I did was to use an extra piece of RG8X. I soldered an RCA plug on one side and a PL259 on the other. Works great.
>
> -Kurt
> kr2c
>
> ----- Original Message -----
> From: pmarkavage
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, September 11, 2009 3:47 AM
> Subject: Re: [TS-520_820_530_830] Question abt 599D twins
>
>
> The receive jack on the back of the T-599D transmitter is called a RCA or
> phono type jack. Since the run between receiver and transmitter is
> generally short, you can use just about any shielded cable to
> interconnect. I used an old cable that use to connect one channel of a
> Hi-Fi tuner to one channel of a stereo amplifier. I just chopped off one
> end and added a PL-259 to mate with the receiver SO-239 jack.
>
> Pete, wa2cwa
> http://www.manualman.com
>
> On Thu, 10 Sep 2009 18:19:15 -0000 "medical35" <medical35@...>
> writes:
> > Hello,
> > I have the 599D twins on the way and want to be ready for
> > them.
> > My question is about the antenna interconnect cable. NOT the sixteen
> > pin cable. I know it has that.
> > I don't think it has the antenna interconnect cable. Or at
> > least that's what most people call it.
> > My question is this: Can I just use an RG8X or RG 58 coax
> > cable jumper with a pl 259 on one end and a motorola plug on the

> > other end?
> > That's all it looks like it is to me.
> > On the back of the RCVR in the pictures it looks like an
> > so 239 and on the back of the XMITER it looks like a motorola plug.
> > Is that correct?
> > Thank you for your help,
> > Jim - K4KOR
>
>
>
>
> [Non-text portions of this message have been removed]
>

22401. Re: [TS-520_820_530_830] Yes I want to join

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-12 07:20:26 UTC
From: Gordon JC Pearce
Topic: 22399 Message: 22401

On Thu, 2009-09-10 at 11:06 -0700, JM wrote:
> yes I want to join.

Looks like you succeeded. Perhaps you should tell us a bit more about yourself, like QTH and callsign...

Or, am I alone in thinking that this looks like a spam post with a huge advertising image stripped out?

Gordon MM0YEQ

22402. Crystal

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-12 21:33:27 UTC
From: Stephen Judd
Topic: 22402 Message: 22402

I was wondering if some one can tell me if a Heathkit Crystal HW SB Series 29.895 MHz will work for ts 520 15 meter band thanks
Stephen/KB7BGS

[Non-text portions of this message have been removed]

22403. Re: [TS-520_820_530_830] Crystal

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-13 15:26:13 UTC
From: Daniel TOESCA
Topic: 22402 Message: 22403

Yes, but you'll have to find room for it... TS-520's quartz is a small wire-connected HC-49U or similar, the one for the SB rigs is big size HC-6U. Otherwise the frequency sheme is exactly the same for both rigs, and also for TS-511 or TS-515 and TS-510.

73's - Daniel, ON5PY

2009/9/12, Stephen Judd <swanradios@...>:
>
>
>
> I was wondering if some one can tell me if a Heathkit Crystal HW SB Series
> 29.895 MHz will work for ts 520 15 meter band thanks
> Stephen/KB7BGS
>
> [Non-text portions of this message have been removed]
>
>
>

[Non-text portions of this message have been removed]

22404. TS-530 Distorted TX audio RX fine.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-13 05:05:59 UTC
From: ah6rr1
Topic: 22404 Message: 22404

Aloha All,
I'm new to the group. I just picked up a 530 that has distorted TX audio the RX audio is fine. Has anyone else had this problem? If so what was the fix or where and what should I look for when I start to open it up. Any Help will do. I also picked up one that works fine and will test it out tommrow after a little clean-up. I did download the service manual and try to gleem from that what the TX audio stages are.
Thanks in advance.
Roland AH6RR

22405. Re: [TS-520_820_530_830] TS-530 Distorted TX audio RX fine.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-13 18:19:20 UTC
From: martin
Topic: 22404 Message: 22405

Hi Roland. What mic are you using? Did it come with the radio? You may want to try a known good high impedance mic and see if that cures the problem. While I have not seen it very often, dynamic mic elements can be damaged by being dropped or knocked around. In any case, my first suspect would be the mic unless you are using a known good high impedance mic that works fine on another radio.

TTYL

ah6rr1 wrote:
> Aloha All, I'm new to the group. I just picked up a 530 that has
> distorted TX audio the RX audio is fine. Has anyone else had this
> problem? If so what was the fix or where and what should I look for
> when I start to open it up. Any Help will do. I also picked up one
> that works fine and will test it out tommrow after a little
> clean-up. I did download the service manual and try to gleem from
> that what the TX audio stages are. Thanks in advance. Roland AH6RR
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

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22406. 20M and Display Issue

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-13 18:32:39 UTC
From: danadak
Topic: 22406 Message: 22406

Hi, just got a fix-er-upper-er. Any assistance greatly appreciated.

20M, recieve incredliby faint/weak. Where is the PD board ? Is that under the VFO board. Looks like a major diassembly effort to get at band xtals. Which is what I suspect.

Display, got it mostly working but have had two issues with it :

1) Intermittantly got into a mode where f displayed was one Mhz high ?
Happened twice, cycled power, that did not fix. But today issue gone away.

2) I get wacky digit flicker, never the LSD's, always 100 Khz and 10 Khz digits. Any ideas ?

Regards, Dana.

22407. Re: [TS-520_820_530_830] 20M and Display Issue

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-13 19:11:41 UTC
From: martin
Topic: 22406 Message: 22407

Hi Dana. The first thing I would do is to losen and tighten all the circuit board mounting screws. Then clean all the switches and controls with DeOxit D5. Then check to see that all of the connectors on the boards are making good contact, and that the connector pins on the boards are not loose. Check the display board for bad solder joints if the suggestions above do not fix that problem.

Good Luck!

danadak wrote:
> Hi, just got a fix-er-upper-er. Any assistance greatly appreciated.
>
>
> 20M, recieve incredliby faint/weak. Where is the PD board ? Is that
> under the VFO board. Looks like a major diassembly effort to get at
> band xtals. Which is what I suspect.
>
> Display, got it mostly working but have had two issues with it :
>
> 1) Intermittantly got into a mode where f displayed was one Mhz
> high ? Happened twice, cycled power, that did not fix. But today
> issue gone away.
>
> 2) I get wacky digit flicker, never the LSD's, always 100 Khz and
> 10 Khz digits. Any ideas ?
>
> Regards, Dana.
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

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22408. Re: 20M and Display Issue

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-13 20:53:51 UTC
From: w5rkl
Topic: 22406 Message: 22408

Dana,

You did not specify which radio you have. Which Kenwood hybrid model do you have (520/520S/520SE, 820/820S, 530S, 830S)?

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "danadak" <danaaknight@...> wrote:
>
> Hi, just got a fix-er-upper-er. Any assistance greatly appreciated.
>
> 20M, recieve incredliby faint/weak. Where is the PD board ? Is that under the VFO board. Looks like a major diassembly effort to get at band xtals. Which is what I suspect.
>
> Display, got it mostly working but have had two issues with it :
>
> 1) Intermittantly got into a mode where f displayed was one Mhz high ?
> Happened twice, cycled power, that did not fix. But today issue gone away.
>
> 2) I get wacky digit flicker, never the LSD's, always 100 Khz and 10 Khz digits. Any ideas ?
>
> Regards, Dana.
>

22409. Re: TS-530 Distorted TX audio RX fine.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-13 22:08:34 UTC
From: ah6rr1
Topic: 22404 Message: 22409

Aloha Martin,
I was told by the owner before he gave it to me that was the problem.
I plugged the radio in and turned it on and saw that it also had poor RX recption also. I did a little reading on this groups messages concerning the 530 and I think I found the problem. The Band Swtich had a cracked coupling in the RF cage I changed it out with the one on the Load control since it was exactly the same less the crack. I now have good RX and I am going to test it out in a couple of minutes
and monitor it on my TS-850 and see if that indeed was the problem.
I do not know what mic he was using but I did get a MC-50 with the other 530 I picked up yesterday. I have owned 3 520's a 530 and a 830 in the past and really like them.
Roland AH6RR

--- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@...> wrote:
>
> Hi Roland. What mic are you using? Did it come with the radio? You
> may want to try a known good high impedance mic and see if that cures
> the problem. While I have not seen it very often, dynamic mic
> elements can be damaged by being dropped or knocked around. In any
> case, my first suspect would be the mic unless you are using a known
> good high impedance mic that works fine on another radio.
>
> TTYL
>
> ah6rr1 wrote:
> > Aloha All, I'm new to the group. I just picked up a 530 that has
> > distorted TX audio the RX audio is fine. Has anyone else had this
> > problem? If so what was the fix or where and what should I look for
> > when I start to open it up. Any Help will do. I also picked up one
> > that works fine and will test it out tommrow after a little
> > clean-up. I did download the service manual and try to gleem from
> > that what the TX audio stages are. Thanks in advance. Roland AH6RR
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> >
>
> --
> CUL8R
>
> KBOHAE kb0hae@... Martin Campbell
>
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> www.sidux.com/index.html
> "Protect your digital freedom and privacy, eliminate DRM, learn more
> at http://www.defectivebydesign.org/what_is_drm"
>

22410. TS530S no power or receive on certain bands

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-13 23:01:25 UTC
From: k4qo
Topic: 22410 Message: 22410

Guys,

I have TS530S that doesn't work on 20, 17, and 10 meters. (no power out - very weak receive)

It works normally on 160, 80, 40, 30, and 12 meters.

Anyone see something like this before? I've checked the VCO's and they are working within the ranges. I suspect something that is common to the three bands, but I can't seem to find that.

I'll be poking around on the band switch tonite. I'll let you know if I find anything there.

Thanks in advance!

73,
Randy
K4QO

22411. Re: TS-530 Distorted TX audio RX fine.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-13 23:11:01 UTC
From: ah6rr1
Topic: 22404 Message: 22411

Ok now after some on air checks of both 530's this one still has rough audio using the same mic as the other 530 that has clean audio. But I must say that it does have the same output power of 120W. There must be something in the TX audio line that is causing this. This problem was confirmed with another Ham 1 had rough audio and the other had clean audio with the same mic. I would like any input if anyone has had this problem in the past.
Thanks
Roland AH6RR

--- In TS-520_820_530_830@yahoogroups.com, "ah6rr1" <ah6rr@...> wrote:
>
> Aloha Martin,
> I was told by the owner before he gave it to me that was the problem.
> I plugged the radio in and turned it on and saw that it also had poor RX recption also. I did a little reading on this groups messages concerning the 530 and I think I found the problem. The Band Swtich had a cracked coupling in the RF cage I changed it out with the one on the Load control since it was exactly the same less the crack. I now have good RX and I am going to test it out in a couple of minutes
> and monitor it on my TS-850 and see if that indeed was the problem.
> I do not know what mic he was using but I did get a MC-50 with the other 530 I picked up yesterday. I have owned 3 520's a 530 and a 830 in the past and really like them.
> Roland AH6RR
>
>
> --- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@> wrote:
> >
> > Hi Roland. What mic are you using? Did it come with the radio? You
> > may want to try a known good high impedance mic and see if that cures
> > the problem. While I have not seen it very often, dynamic mic
> > elements can be damaged by being dropped or knocked around. In any
> > case, my first suspect would be the mic unless you are using a known
> > good high impedance mic that works fine on another radio.
> >
> > TTYL
> >
> > ah6rr1 wrote:
> > > Aloha All, I'm new to the group. I just picked up a 530 that has
> > > distorted TX audio the RX audio is fine. Has anyone else had this
> > > problem? If so what was the fix or where and what should I look for
> > > when I start to open it up. Any Help will do. I also picked up one
> > > that works fine and will test it out tommrow after a little
> > > clean-up. I did download the service manual and try to gleem from
> > > that what the TX audio stages are. Thanks in advance. Roland AH6RR
> > >
> > >
> >

> > --
> > CUL8R
> >
> > KBOHAE kb0hae@ Martin Campbell
> >
> > A Satisfied Sidux Linux user! To get Sidux go to:
> > www.sidux.com/index.html
> > "Protect your digital freedom and privacy, eliminate DRM, learn more
> > at http://www.defectivebydesign.org/what_is_drm"
> >
>

22412. Re: [TS-520_820_530_830] Re: TS-530 Distorted TX audio RX fine.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-14 00:46:42 UTC
From: martin
Topic: 22404 Message: 22412

Hi Roland. I hope that was the only problem. Ken, K4EAA sells couplers. I replaced the very same coupler in my TS-530S, as it was cracked, but had not failed yet. The metal one that I got from Ken is really nice, and was not hard to install. Make sure to make note of the positions of both shafts when replacing the couplers!

The MC-50 is a great mic! I have one here, and it gets me unsolicited praise for my TX audio on my TS-530S, my TS-130SE, and my TS-430s (using a home-made 4-8 pin adapter). I have the Kenwood MC-42 for the TS-430S, and the MC-30 for the TS-13-SE (also works on the TS-530S). The Kenwood hand mics sound good, but thoise I have talked to agree that the MC-50 sounds better.

TTYL

ah6rr1 wrote:
> Aloha Martin, I was told by the owner before he gave it to me that
> was the problem. I plugged the radio in and turned it on and saw
> that it also had poor RX recption also. I did a little reading on
> this groups messages concerning the 530 and I think I found the
> problem. The Band Swtich had a cracked coupling in the RF cage I
> changed it out with the one on the Load control since it was
> exactly the same less the crack. I now have good RX and I am going
> to test it out in a couple of minutes and monitor it on my TS-850
> and see if that indeed was the problem. I do not know what mic he
> was using but I did get a MC-50 with the other 530 I picked up
> yesterday. I have owned 3 520's a 530 and a 830 in the past and
> really like them. Roland AH6RR

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

22413. 530 Plate Current runaway

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-14 05:18:11 UTC
From: kh6sky
Topic: 22413 Message: 22413

I have a 530s that blows finals. I have been unsuccessful at finding out why. Any suggestions would be helpful. The last disaster resulted in a blown plate choke. Does anyone know where I can find a replacement?

Thanks and Aloha
Jim

22414. Re: [TS-520_820_530_830] 530 Plate Current runaway

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-14 09:09:11 UTC
From: Lou Blasco
Topic: 22413 Message: 22414

Hi Jim,

Try Ken, K4EAA for replacement parts http://www.k4eaa.com/

Lou
VK3ALB

At 03:18 PM 14/09/2009, you wrote:
>I have a 530s that blows finals. I have been unsuccessful at
>finding out why. Any suggestions would be helpful. The last
>disaster resulted in a blown plate choke. Does anyone know where I
>can find a replacement?
>
>Thanks and Aloha
>Jim
>
>
>
>------------------------------------
>
>Yahoo! Groups Links
>
>
>

22415. Re: 530 Plate Current runaway

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-14 10:47:34 UTC
From: w5rkl
Topic: 22413 Message: 22415

I am assuming the IP meter reading is uncontrollable, full scale, in transmit. If that is the case, it appears the bias supply, -C on the Rectifier Unit, has failed.

I don't have a source for final amplifier RFC replacement other than a parts radio.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "kh6sky" <radiosky@...> wrote:
>
> I have a 530s that blows finals. I have been unsuccessful at finding out why. Any suggestions would be helpful. The last disaster resulted in a blown plate choke. Does anyone know where I can find a replacement?
>
> Thanks and Aloha
> Jim
>

22416. Search

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-14 09:08:31 UTC
From: danadak
Topic: 22416 Message: 22416

I do a search for 20M, first time get 700+ hits, then do a next
screen after looking at first screen results and get a message to fill out a form to
migrate to a new message system, and no listed hits ? So I restart search from scratch, get
NO hits ?

22417. Cabinet Paint

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-14 15:11:30 UTC
From: dittiacur
Topic: 22417 Message: 22417

Morning All.

I'm new to the group.

Looking for some cabinet pqaint for my TS-520. Ken, K4EAA, suggested an e-bay website, but looks like that sale has closed.

Any suggestions/help appreciated.

73,

Dennis WB8RUW

22418. Re: [TS-520_820_530_830] Yes I want to join

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-14 15:56:35 UTC
From: Dave and Loraine
Topic: 22399 Message: 22418

Gordon,
n9wb - the owner of this group - approved this person's application in good faith.
This is not the group for smartmouth put-downs.
Dave f4eyk

22419. RE: [TS-520_820_530_830] Cabinet Paint

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-14 16:38:08 UTC
From: Greg Anders
Topic: 22417 Message: 22419

Contact the seller on Ebay, he sells paints regularly. I bought the Kenwood paint for my 520SE from him.
You can find him by searching the ham radio section using the term "paint".... He sells paints for lots of old rigs.

Greg
KG6YV
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of dittiacur
Sent: Monday, September 14, 2009 8:12 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Cabinet Paint

Morning All.

I'm new to the group.

Looking for some cabinet pqaint for my TS-520. Ken, K4EAA, suggested an e-bay website, but looks like that sale has closed.

Any suggestions/help appreciated.

73,

Dennis WB8RUW

[Non-text portions of this message have been removed]

22420. Re: [TS-520_820_530_830] Cabinet Paint

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-14 15:51:46 UTC
From: W0XS
Topic: 22417 Message: 22420

Create a search for it and save the search so you'll be alerted when it appears again - the paint shows up fairly often. I bought mine a year ago and have seen it many times since.

----- Original Message -----
From: dittiacur
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, September 14, 2009 10:11 AM
Subject: [TS-520_820_530_830] Cabinet Paint

Morning All.

I'm new to the group.

Looking for some cabinet pqaint for my TS-520. Ken, K4EAA, suggested an e-bay website, but looks like that sale has closed.

Any suggestions/help appreciated.

73,

Dennis WB8RUW

[Non-text portions of this message have been removed]

22421. Re: 530 Plate Current runaway

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-14 16:54:21 UTC
From: kh6sky
Topic: 22413 Message: 22421

Thank you for the suggestions. I went to the k4eaa website and he has a suggestion that the plate choke can be rewound. Since it is a straight one layer winding, that is probably not hard to do. I have to figure out what guage enameled wire this is, does anyone have an idea? Also my old choke no longer has the correct number of turns so I need to know how many turns to wind. I suppose I can work backward from the inductance to find the number of turns.

22422. Anyone own a TS-900S?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-14 16:56:01 UTC
From: Greg Anders
Topic: 22422 Message: 22422

Hi,

I know this group isn't specifically set up to cover other vintage Kenwood's but I thought I would ask anyway.
I just received a TS-900S and would be interested in conversing "off-line" with anyone out there who has one.
It's an interesting unit to say the least. I would say it's the Transceiver that looks like the Kenwood Twins....

Thanks,

Greg
KG6YV

[Non-text portions of this message have been removed]

22423. Re: 530 Plate Current runaway

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-14 17:07:52 UTC
From: ka1wpm
Topic: 22413 Message: 22423

I have written to k4eaa a few times, and he has been very helpful. I would imagine he could tell you the guage and number of turns without batting an eye.

73,
-- Dana, KA1WPM

--- In TS-520_820_530_830@yahoogroups.com, "kh6sky" <radiosky@...> wrote:
>
> Thank you for the suggestions. I went to the k4eaa website and he has a suggestion that the plate choke can be rewound. Since it is a straight one layer winding, that is probably not hard to do. I have to figure out what guage enameled wire this is, does anyone have an idea? Also my old choke no longer has the correct number of turns so I need to know how many turns to wind. I suppose I can work backward from the inductance to find the number of turns.
>

22424. Re: [TS-520_820_530_830] Cabinet Paint

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-14 17:16:35 UTC
From: K5vse-Mike
Topic: 22417 Message: 22424

Good afternoon,

You might give Martin a try. He used to sell a lot on the "E" place I bought from him and was very satisfied.

The last email address I have is: mlt67@...

73,
Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2009
"In God We Trust"

[Non-text portions of this message have been removed]

22425. Re: VFO-230 in Tune Mode

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-14 17:23:22 UTC
From: ka1wpm
Topic: 22355 Message: 22425

I heard from another member off-line that this is not correct behavior. So here are the complete symptoms:

With the VFO-230 set to VFO mode, everything works fine except if the TS-830S is set to TUNE. Under these circumstances, the display on the TS-830S blanks, indicating a loss of lock. This happens on all bands except 3.5. On 3.5 MHz, the rig displays 3.0000 and doesn't change when the external oscillator is varied.

In all cases, the display on the VFO-230 works as it should. On 3.5 MHz and 24.5 MHz, 500 kHz is added to the VFO-230 display like it should be.

So my question now is, what could happen when the rig is placed in tune mode that would make it behave this way while using the external oscillator.

TNX & 73,
-- Dana, KA1WPM
--- In TS-520_820_530_830@yahoogroups.com, "ka1wpm" <ka1wpm@...> wrote:
>
> Hello All,
>
> I posted this question once before, but didn't get a response. Maybe someone could try this and let me know what happens.
>
> Whenver I put my VFO-230 in VFO mode, and my TS-830S in TUNE mode, the display on the 830 blanks.
>
> Does anyone else see this?
>
> TNX,
> -- Dana, KA1WPM
>

22426. Re: [TS-520_820_530_830] Yes I want to join

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-14 18:11:55 UTC
From: Bert Morton
Topic: 22399 Message: 22426

AMEN !!

----- Original Message -----
From: "Dave and Loraine" <dave.crooks@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, September 14, 2009 11:56 AM
Subject: Re: [TS-520_820_530_830] Yes I want to join

> Gordon,
> n9wb - the owner of this group - approved this person's application in
> good faith.
> This is not the group for smartmouth put-downs.
> Dave f4eyk
>

22427. USB & LSB passbands sound different, how to make them sound alike?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-14 20:04:59 UTC
From: marcus_leatham
Topic: 22427 Message: 22427

Hi,

This is about my R-599. I believe there is no group for the R-599 so I'm inquiring here. LSB has a lot of bass. USB has a lot of treble. They should sound the same. It looks like both modes use the same filter. The only adjustments I can find are for the BFO xtal trimmers. If I adjust the BFO frequency, will it change the sound of the passband? If so, is there enough adjustment to correct it? The IF circuits (BFO xtal oscillators) are in a sealed can that would be difficult to open for testing, but I have a decent oscilloscope and frequency counter if necessary. Also, there are some adjustments on the filter board, but the actual filter (I believe but I could be wrong) is an xtal lattice type. Thanks in advance for any advice.

Marcus KR5N

22428. RE: [TS-520_820_530_830] USB & LSB passbands sound different, how to make them sound alike?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-14 20:13:45 UTC
From: Greg Anders
Topic: 22427 Message: 22428

It's the BFO that is out of alignment for LSB/USB. The different pitch for USB and LSB should be fixable. The BFO circuit should show you each of the three crystals (one for CW,USB and LSB). If there is a padder trimmer on each then you could set them to the proper frequency with a freq. counter. I don't own a 599 so I don't have a schematic or manual. If you have the manual there may be a section on alignment of BFO frequencies which I would follow if I were you. I've done this exercise on dozens of Kenwoods. Not complicated.

Greg

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of marcus_leatham
Sent: Monday, September 14, 2009 1:05 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] USB & LSB passbands sound different, how to make them sound alike?

Hi,

This is about my R-599. I believe there is no group for the R-599 so I'm inquiring here. LSB has a lot of bass. USB has a lot of treble. They should sound the same. It looks like both modes use the same filter. The only adjustments I can find are for the BFO xtal trimmers. If I adjust the BFO frequency, will it change the sound of the passband? If so, is there enough adjustment to correct it? The IF circuits (BFO xtal oscillators) are in a sealed can that would be difficult to open for testing, but I have a decent oscilloscope and frequency counter if necessary. Also, there are some adjustments on the filter board, but the actual filter (I believe but I could be wrong) is an xtal lattice type. Thanks in advance for any advice.

Marcus KR5N

[Non-text portions of this message have been removed]

22429. RE: [TS-520_820_530_830] USB & LSB passbands sound different, how to make them sound alike?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-14 20:31:32 UTC
From: brad
Topic: 22427 Message: 22429

I have a Kenwood 940SAT. When I hit the LSB compared to the USB, yes, there is a difference in the audio like you say, but I am not about to go through a rig that is receiving just fine and change it. My receiver is setting at .12 sensitivity. I will leave it alone especially if the coils are sealed. Fat chance they got changed. Brad KB2CHY

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Greg Anders
Sent: Monday, September 14, 2009 16:14
To: TS-520_820_530_830@yahoogroups.com
Subject: RE: [TS-520_820_530_830] USB & LSB passbands sound different, how to make them sound alike?

It's the BFO that is out of alignment for LSB/USB. The different pitch for USB and LSB should be fixable. The BFO circuit should show you each of the three crystals (one for CW,USB and LSB). If there is a padder trimmer on each then you could set them to the proper frequency with a freq. counter. I don't own a 599 so I don't have a schematic or manual. If you have the manual there may be a section on alignment of BFO frequencies which I would follow if I were you. I've done this exercise on dozens of Kenwoods. Not complicated.

Greg

From: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com> 830@yahoogroups.com [mailto:TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com> 830@yahoogroups.com] On Behalf Of marcus_leatham
Sent: Monday, September 14, 2009 1:05 PM
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com> 830@yahoogroups.com
Subject: [TS-520_820_530_830] USB & LSB passbands sound different, how to make them sound alike?

Hi,

This is about my R-599. I believe there is no group for the R-599 so I'm inquiring here. LSB has a lot of bass. USB has a lot of treble. They should sound the same. It looks like both modes use the same filter. The only adjustments I can find are for the BFO xtal trimmers. If I adjust the BFO frequency, will it change the sound of the passband? If so, is there enough adjustment to correct it? The IF circuits (BFO xtal oscillators) are in a sealed can that would be difficult to open for testing, but I have a decent

oscilloscope and frequency counter if necessary. Also, there are some adjustments on the filter board, but the actual filter (I believe but I could be wrong) is an xtal lattice type. Thanks in advance for any advice.

Marcus KR5N

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

22430. RE: [TS-520_820_530_830] USB & LSB passbands sound different, how to make them sound alike?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-14 20:46:20 UTC
From: Greg Anders
Topic: 22427 Message: 22430

The 940 is a different animal. That BFO is tied into the PLL frequency synthesizer. It still can be adjusted for proper audio response but the process is different. In some PLL radios like my Yaesu FT-1000D you actually have to adjust the master oscillator frequency to spec first, then you can twiddle the USB/LSB carriers. If the master oscillator is what is off frequency slightly you won't be able to adjust the USB/LSB to sound right.

FYI,

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of brad
Sent: Monday, September 14, 2009 1:32 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: RE: [TS-520_820_530_830] USB & LSB passbands sound different, how to make them sound alike?

I have a Kenwood 940SAT. When I hit the LSB compared to the USB, yes, there
is a difference in the audio like you say, but I am not about to go through
a rig that is receiving just fine and change it. My receiver is setting at
.12 sensitivity. I will leave it alone especially if the coils are sealed.
Fat chance they got changed. Brad KB2CHY

From: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com> [mailto:TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of Greg Anders
Sent: Monday, September 14, 2009 16:14
To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
Subject: RE: [TS-520_820_530_830] USB & LSB passbands sound different, how to make them sound alike?

It's the BFO that is out of alignment for LSB/USB. The different pitch for
USB and LSB should be fixable. The BFO circuit should show you each of the
three crystals (one for CW,USB and LSB). If there is a padder trimmer on
each then you could set them to the proper frequency with a freq. counter. I
don't own a 599 so I don't have a schematic or manual. If you have the
manual there may be a section on alignment of BFO frequencies which I would
follow if I were you. I've done this exercise on dozens of Kenwoods. Not
complicated.

Greg

From: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com<mailto:830%40yahoogroups.com> [mailto:TS-520_820_530_
<mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com<mailto:830%40yahoogroups.com>] On Behalf
Of marcus_leatham
Sent: Monday, September 14, 2009 1:05 PM
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com<mailto:830%40yahoogroups.com>
Subject: [TS-520_820_530_830] USB & LSB passbands sound different, how to
make them sound alike?

Hi,

This is about my R-599. I believe there is no group for the R-599 so I'm inquiring here. LSB has a lot of bass. USB has a lot of treble. They should sound the same. It looks like both modes use the same filter. The only adjustments I can find are for the BFO xtal trimmers. If I adjust the BFO frequency, will it change the sound of the passband? If so, is there enough adjustment to correct it? The IF circuits (BFO xtal oscillators) are in a sealed can that would be difficult to open for testing, but I have a decent oscilloscope and frequency counter if necessary. Also, there are some adjustments on the filter board, but the actual filter (I believe but I could be wrong) is an xtal lattice type. Thanks in advance for any advice.

Marcus KR5N

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

22431. Re: 20M and Display Issue

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-14 20:43:39 UTC
From: danadak
Topic: 22406 Message: 22431

Radio is 820S, my age is showing.

--- In TS-520_820_530_830@...m, "w5rkl" <w5rkl@...> wrote:
>
> Dana,
>
> You did not specify which radio you have. Which Kenwood hybrid model do you have (520/520S/520SE, 820/820S, 530S, 830S)?
>
> 73's
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "danadak" <danaaknight@> wrote:
> >
> > Hi, just got a fix-er-upper-er. Any assistance greatly appreciated.
> >
> > 20M, recieve incredliby faint/weak. Where is the PD board ? Is that under the VFO board. Looks like a major diassembly effort to get at band xtals. Which is what I suspect.
> >
> > Display, got it mostly working but have had two issues with it :
> >
> > 1) Intermittantly got into a mode where f displayed was one Mhz high ?
> > Happened twice, cycled power, that did not fix. But today issue gone away.
> >
> > 2) I get wacky digit flicker, never the LSD's, always 100 Khz and 10 Khz digits. Any ideas ?
> >
> > Regards, Dana.
> >
>

22432. Re: [TS-520_820_530_830] 530 Plate Current runaway

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-14 20:33:47 UTC
From: John Davidson
Topic: 22413 Message: 22432

Do you keep a close watch on your plate current meter when you tune up after changing bands>?>?
If you never let the Ip go over 200 mA even for a second, you can run for 15 years on a set of tubes like I have.
73...JD

--- On Mon, 9/14/09, kh6sky <radiosky@...> wrote:

From: kh6sky <radiosky@...>
Subject: [TS-520_820_530_830] 530 Plate Current runaway
To: TS-520_820_530_830@yahoogroups.com
Date: Monday, September 14, 2009, 1:18 AM

I have a 530s that blows finals. I have been unsuccessful at finding out why. Any suggestions would be helpful. The last disaster resulted in a blown plate choke. Does anyone know where I can find a replacement?

Thanks and Aloha
Jim

[Non-text portions of this message have been removed]

22433. Re: [TS-520_820_530_830] USB & LSB passbands sound different, how to make them sound alike?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-14 20:54:29 UTC
From: Jim Stanicek
Topic: 22427 Message: 22433

Hi Marcus,

I am having exactly the same problem with my R-599, and it appears that the problem is with the "carrier insertion point" in the "Carrier Unit UC 1214J which is located just in front of the power transformer in left rear corner of the receiver.

The frequencies of the crystals are supposed to be 3393.5 , 3396.5 and 3395.6 Khz.

I found my USB crystal to be 600 hz high at the lowest frequency I could trim it to before it dropped out of oscillation.

Ken Kemski gratiously sent me this information, which I will pass on to you.

I have further comments below Ken's information which starts on the next line:

Yes, when it's moved in frequency it's changed mechanically somehow, and the series R is probably higher also. They don't oscillate well, and if you try to pull them they just stop.

It should be an HC-6 with wire leads. I mostly see them in the 520's, as I've only worked on a half-dozen or so 599's so I presume they are the same as the 520.

The last one I got from Jan (about a year ago) was also a little high in frequency. I had to pad the series C to be able to tune it in. You might point out to Jan that there is about 10pf across the crystal and 22pf in series with it in the Kenwood circuit. They can then get it right on (as they should, for what they charge!).

Great Luck,
Best 73's,
Ken

Ken Kemski K4EAA
3745 Allenwood Street
Sarasota, FL 34232

ken@...
941-780-4330 (cell)

k4eaa.com

Some handy links:

K4EAA Home
Kenwood FAQ
Tune-up Guide
Parts Sales
Printable Packing Slip

Packing Instructions

I believe that the resistors he is referring to are each 10Kohm and are designated R1 R2 and R3, and are located between the connectons to the main circuit board, and one side of L2 L3 and L4.

I am going to check the values of those resistors before I send off to JAN for some rather expensive rocks !

Good luck! Keep in touch , via this forum, and I will do the same.

My e-mail is

jimstan@..., but it would be nice if we can keep the discussion going on the public forum. Look for earlier posts about the 599 or "GoldDust Twins" and you will find quite a few !

73, Jim

----- Original Message -----
From: marcus_leatham
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, September 14, 2009 4:04 PM
Subject: [TS-520_820_530_830] USB & LSB passbands sound different, how to make them sound alike?

Hi,

This is about my R-599. I believe there is no group for the R-599 so I'm inquiring here. LSB has a lot of bass. USB has a lot of treble. They should sound the same. It looks like both modes use the same filter. The only adjustments I can find are for the BFO xtal trimmers. If I adjust the BFO frequency, will it change the sound of the passband? If so, is there enough adjustment to correct it? The IF circuits (BFO xtal oscillators) are in a sealed can that would be difficult to open for testing, but I have a decent oscilloscope and frequency counter if necessary. Also, there are some adjustments on the filter board, but the actual filter (I believe but I could be wrong) is an xtal lattice type. Thanks in advance for any advice.

Marcus KR5N

[Non-text portions of this message have been removed]

22434. Re: 20M and Display Issue

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-15 01:47:15 UTC
From: w5rkl
Topic: 22406 Message: 22434

Dana,

The PD UNIT is one of 2 PC boards inside the PLL UNIT metal enclosure.

The PLL UNIT is on the bottom of the 820 chassis.

I recommend removing all 3 of the metal enclosures (one at a time), PLL UNIT, CARRIER ASSY UNIT, and COUNTER ASSY UNIT then clean each set of fixed pins and pc board sockets inside the metal enclosures. This may seem a lot to do but considering the age of the 820 and the different environments it has been subjected to, the pins and sockets can become dirty and corroded creating all sorts of problems.

I also recommend cleaning the FUNCTION, BAND, and MODE rotary switches. Don't forget the switch wafer inside the final amplifier cage.

If you do not have the operator and service manuals, you can download them from n6wk's website:

http://www.n6wk.com/kenwood/

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "danadak" <danaaknight@...> wrote:
>
> Radio is 820S, my age is showing.
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Dana,
> >
> > You did not specify which radio you have. Which Kenwood hybrid model do you have (520/520S/520SE, 820/820S, 530S, 830S)?
> >
> > 73's
> > Mike W5RKL
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "danadak" <danaaknight@> wrote:
> > >
> > > Hi, just got a fix-er-upper-er. Any assistance greatly appreciated.
> > >
> > > 20M, recieve incredliby faint/weak. Where is the PD board ? Is that under the VFO board. Looks like a major diassembly effort to get at band xtals. Which is what I suspect.
> > >
> > > Display, got it mostly working but have had two issues with it :
> > >

> > > 1) Intermittantly got into a mode where f displayed was one Mhz high ?
> > > Happened twice, cycled power, that did not fix. But today issue gone away.
> > >
> > > 2) I get wacky digit flicker, never the LSD's, always 100 Khz and 10 Khz digits. Any ideas ?
> > >
> > > Regards, Dana.
> > >
> >
>

22435. Re: 530 Plate Current runaway

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-15 03:28:39 UTC
From: oz1hyi
Topic: 22413 Message: 22435

--- In TS-520_820_530_830@yahoogroups.com, "ka1wpm" <ka1wpm@...> wrote:
>
> I have written to k4eaa a few times, and he has been very helpful. I would imagine he could tell you the guage and number of turns without batting an eye.
>
> 73,
> -- Dana, KA1WPM
>
> --- In TS-520_820_530_830@yahoogroups.com, "kh6sky" <radiosky@> wrote:
> >
> > Thank you for the suggestions. I went to the k4eaa website and he has a suggestion that the plate choke can be rewound. Since it is a straight one layer winding, that is probably not hard to do. I have to figure out what guage enameled wire this is, does anyone have an idea? Also my old choke no longer has the correct number of turns so I need to know how many turns to wind. I suppose I can work backward from the inductance to find the number of turns.
> >
>
It wil be very nice if the data of the gauge and turns could be written here in this nice forum.
I have the same problem with a TS 520S with defect plate choke, and have searched for data on the net, but have not found it..
Vy 73 de OZ1HYI Willy

22437. TS-830S Rectifier Board Relay Cover

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-15 15:35:51 UTC
From: n6wk_skcc3
Topic: 22437 Message: 22437

I need the little clear plastic cover off the relay on the rectifier board from a TS-830. Does anyone have one or a complete relay to sell?

Thanks,
Gordon
n6wk

22438. RE: [TS-520_820_530_830] TS-830S Rectifier Board Relay Cover

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-15 17:12:43 UTC
From: Dick Merryman
Topic: 22437 Message: 22438

According to Ken Kemski, K4EAA, Kenwood parts has replacement relays.

-Dick-
N3XRU

_____

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n6wk_skcc3
Sent: Tuesday, September 15, 2009 8:36 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS-830S Rectifier Board Relay Cover

I need the little clear plastic cover off the relay on the rectifier board
from a TS-830. Does anyone have one or a complete relay to sell?

Thanks,
Gordon
n6wk

[Non-text portions of this message have been removed]

22439. Re: [TS-520_820_530_830] TS-830S Rectifier Board Relay Cover

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-15 17:41:53 UTC
From: Ruben Echevarria
Topic: 22437 Message: 22439

Gordon give me a few hours. I know I have one in the box (used but good).
Have to find it. If I can't find it I'll let you know. I'll send out to you N/C if I find it.
 Ruben Echevarria KA2HHB
070 Club#861 30MDG#1148
10-10#33308

From: Dick Merryman <dicko@wormhole.com>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, September 15, 2009 1:12:43 PM
Subject: RE: [TS-520_820_530_830] TS-830S Rectifier Board Relay Cover

According to Ken Kemski, K4EAA, Kenwood parts has replacement relays.

-Dick-
N3XRU

From: TS-520_820_530_ 830@yahoogroups. com
[mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of n6wk_skcc3
Sent: Tuesday, September 15, 2009 8:36 AM
To: TS-520_820_530_ 830@yahoogroups. com
Subject: [TS-520_820_ 530_830] TS-830S Rectifier Board Relay Cover

I need the little clear plastic cover off the relay on the rectifier board
from a TS-830. Does anyone have one or a complete relay to sell?

Thanks,
Gordon
n6wk

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

22440. Re: [TS-520_820_530_830] TS-830S Rectifier Board Relay Cover

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-15 19:11:06 UTC
From: n6wk@n6wk.com
Topic: 22437 Message: 22440

Thanks Ruben,
That'll be great if you can find it. Please let me know.

73,
Gordon

Ruben Echevarria wrote:
>
>
> Gordon give me a few hours. I know I have one in the box (used but good).
> Have to find it. If I can't find it I'll let you know. I'll send out
> to you N/C if I
> find it.
> Ruben Echevarria KA2HHB
> 070 Club#861 30MDG#1148
> 10-10#33308
>
> _____
> From: Dick Merryman <dicko@... <mailto:dicko%40wormhole.com>>
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Tuesday, September 15, 2009 1:12:43 PM
> Subject: RE: [TS-520_820_530_830] TS-830S Rectifier Board Relay Cover
>
>
> According to Ken Kemski, K4EAA, Kenwood parts has replacement relays.
>
> -Dick-
> N3XRU
>
> _____
>
> From: TS-520_820_530_ 830@yahoogroups. com
> [mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of n6wk_skcc3
> Sent: Tuesday, September 15, 2009 8:36 AM
> To: TS-520_820_530_ 830@yahoogroups. com
> Subject: [TS-520_820_ 530_830] TS-830S Rectifier Board Relay Cover
>
> I need the little clear plastic cover off the relay on the rectifier board
> from a TS-830. Does anyone have one or a complete relay to sell?
>
> Thanks,
> Gordon
> n6wk
>

22441. Re: [TS-520_820_530_830] TS530S no power or receive on certain bands

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-15 22:34:23 UTC
From: Dave ve3wej
Topic: 22410 Message: 22441

did not someone mention earlier, that this model the warc bands have to be enabled

check the manual, or archived listings

----- Original Message -----
From: "k4qo" <k4qo@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, September 13, 2009 7:01 PM
Subject: [TS-520_820_530_830] TS530S no power or receive on certain bands

> Guys,
>
> I have TS530S that doesn't work on 20, 17, and 10 meters. (no power out -
> very weak receive)
>
> It works normally on 160, 80, 40, 30, and 12 meters.
>
> Anyone see something like this before? I've checked the VCO's and they
> are working within the ranges. I suspect something that is common to the
> three bands, but I can't seem to find that.
>
> I'll be poking around on the band switch tonite. I'll let you know if I
> find anything there.
>
> Thanks in advance!
>
> 73,
> Randy
> K4QO
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

22442. RE: [TS-520_820_530_830] TS530S no power or receive on certain bands

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-15 22:46:48 UTC
From: Greg Anders
Topic: 22410 Message: 22442

The previous posting may have some bearing on this problem.
The 530 is from the "era" when the WARC bands were being implemented and released for use by Hams. Until the bands were fully released for use the radios shipped with jumpers to prevent use on those bands. This may be your problem,
All I remember was that 30 meters opened first, the others were later.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Dave ve3wej
Sent: Tuesday, September 15, 2009 3:34 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS530S no power or receive on certain bands

did not someone mention earlier, that this model the warc bands have to be
enabled

check the manual, or archived listings

----- Original Message -----
From: "k4qo" <k4qo@...<mailto:k4qo%40earthlink.net>>
To: <TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>>
Sent: Sunday, September 13, 2009 7:01 PM
Subject: [TS-520_820_530_830] TS530S no power or receive on certain bands

> Guys,
>
> I have TS530S that doesn't work on 20, 17, and 10 meters. (no power out -
> very weak receive)
>
> It works normally on 160, 80, 40, 30, and 12 meters.
>
> Anyone see something like this before? I've checked the VCO's and they
> are working within the ranges. I suspect something that is common to the
> three bands, but I can't seem to find that.
>
> I'll be poking around on the band switch tonite. I'll let you know if I
> find anything there.
>
> Thanks in advance!
>
> 73,
> Randy
> K4QO

>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

[Non-text portions of this message have been removed]

22443. Re: [TS-520_820_530_830] TS530S no power or receive on certain bands

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-15 23:10:03 UTC
From: martin
Topic: 22410 Message: 22443

Hi Guys. It doesn't sound like the W.A.R.C. bands being enabled or not has anything to do with this problem. If the W.A.R.C. bands are not enabled, that means you can't transmit on 30M, 17M, and 12m. The radio will still receive on those bands. and that has nothing to do with 20M and 10m. Most likely this is a band-switch or alignment issue, or the crystals for those bands my be bad.

My TS-530S does not have the W.A.R.C. mod done. It will receive on all HF bands, but will not transmit on 17M and 12M. 30M is enabled.

TTYL

Greg Anders wrote:
> The previous posting may have some bearing on this problem. The 530
> is from the "era" when the WARC bands were being implemented and
> released for use by Hams. Until the bands were fully released for
> use the radios shipped with jumpers to prevent use on those bands.
> This may be your problem, All I remember was that 30 meters opened
> first, the others were later.
>
> Greg KG6YV
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Dave
> ve3wej Sent: Tuesday, September 15, 2009 3:34 PM To:
> TS-520_820_530_830@yahoogroups.com Subject: Re:
> [TS-520_820_530_830] TS530S no power or receive on certain bands
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

22444. Re: TS530S no power or receive on certain bands

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-16 14:13:59 UTC
From: w5rkl
Topic: 22410 Message: 22444

Disabled WARC bands is not the source/cause of the problem.

Randy, you didn't state whether you are the original owner or not. If you are not the original owner then I would no discount the possibility that a previous owner took out their golden screw driver and soldering pencil to performed some adjustments/changes/modification that resulted in the problems you are experiencing on 20, 17, and 10 meters. It's possible a previous owner may also have tried to modify the 530 so it would operate on 11 meters and made a mess of things. Wouldn't be the first time something like this has happened.

I suspect the source of the problem is a failure in the PLL UNIT.

I recommend going through each alignment step starting on page 33 of the 530's service manual.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Greg Anders <greg.anders@...> wrote:
>
> The previous posting may have some bearing on this problem.
> The 530 is from the "era" when the WARC bands were being implemented and released for use by Hams. Until the bands were fully released for use the radios shipped with jumpers to prevent use on those bands. This may be your problem,
> All I remember was that 30 meters opened first, the others were later.
>
> Greg
> KG6YV
>
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Dave ve3wej
> Sent: Tuesday, September 15, 2009 3:34 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] TS530S no power or receive on certain bands
>
>
>
> did not someone mention earlier, that this model the warc bands have to be
> enabled
>
> check the manual, or archived listings
>
> ----- Original Message -----
> From: "k4qo" <k4qo@...<mailto:k4qo%40earthlink.net>>
> To: <TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>>
> Sent: Sunday, September 13, 2009 7:01 PM

> Subject: [TS-520_820_530_830] TS530S no power or receive on certain bands
>
> > Guys,
> >
> > I have TS530S that doesn't work on 20, 17, and 10 meters. (no power out -
> > very weak receive)
> >
> > It works normally on 160, 80, 40, 30, and 12 meters.
> >
> > Anyone see something like this before? I've checked the VCO's and they
> > are working within the ranges. I suspect something that is common to the
> > three bands, but I can't seem to find that.
> >
> > I'll be poking around on the band switch tonite. I'll let you know if I
> > find anything there.
> >
> > Thanks in advance!
> >
> > 73,
> > Randy
> > K4QO
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
>
>
>
> [Non-text portions of this message have been removed]
>

22445. Paint

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-16 19:49:40 UTC
From: Dennis Dittiacur
Topic: 5650 Message: 22445

Success!!!!

Thanks to all especially K4EAA and K5VSE who had Martin Tippin's e-mail address.

73,

Dennis
WB8RUW

[Non-text portions of this message have been removed]

22446. Re: TS530S no power or receive on certain bands

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-16 20:32:25 UTC
From: k4qo
Topic: 22410 Message: 22446

Mike,

I think you are right - and after poking around on the bandswitch helping some of the contacts make continuity, I temporarily got 17 meters to work. At this point I have to agree that the bandswitch is probably the culprit.

Its history is known... so I'm not ready to look for Golden Screwdriver marks just yet... Looks to me like the previous owner did copious amounts of contact cleaner some time ago before putting it up on a shelf for several years. It was given to a local here and I am helping him sort it out.

Thanks for all the help and tips! The WARC band thing caught my eye early on but that had been done already. Wish it was that simple! hi!

73,
Randy
K4QO

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Disabled WARC bands is not the source/cause of the problem.
>
> Randy, you didn't state whether you are the original owner or not. If you are not the original owner then I would no discount the possibility that a previous owner took out their golden screw driver and soldering pencil to performed some adjustments/changes/modification that resulted in the problems you are experiencing on 20, 17, and 10 meters. It's possible a previous owner may also have tried to modify the 530 so it would operate on 11 meters and made a mess of things. Wouldn't be the first time something like this has happened.
>
> I suspect the source of the problem is a failure in the PLL UNIT.
>
> I recommend going through each alignment step starting on page 33 of the 530's service manual.
>
>
> 73's
> Mike W5RKL
>
>

22447. RE: [TS-520_820_530_830] Re: TS530S no power or receive on certain bands

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-16 20:57:33 UTC
From: Dick Merryman
Topic: 22410 Message: 22447

Check out bandswitch repair instructions at
http://www.k4eaa.com/bandswitch.html .

-Dick-
N3XRU

_____

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of k4qo
Sent: Wednesday, September 16, 2009 1:32 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS530S no power or receive on certain
bands

Mike,

I think you are right - and after poking around on the bandswitch helping
some of the contacts make continuity, I temporarily got 17 meters to work.
At this point I have to agree that the bandswitch is probably the culprit.

Its history is known... so I'm not ready to look for Golden Screwdriver
marks just yet... Looks to me like the previous owner did copious amounts of
contact cleaner some time ago before putting it up on a shelf for several
years. It was given to a local here and I am helping him sort it out.

Thanks for all the help and tips! The WARC band thing caught my eye early on
but that had been done already. Wish it was that simple! hi!

73,
Randy
K4QO

--- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Disabled WARC bands is not the source/cause of the problem.
>
> Randy, you didn't state whether you are the original owner or not. If you
are not the original owner then I would no discount the possibility that a
previous owner took out their golden screw driver and soldering pencil to
performed some adjustments/changes/modification that resulted in the
problems you are experiencing on 20, 17, and 10 meters. It's possible a
previous owner may also have tried to modify the 530 so it would operate on
11 meters and made a mess of things. Wouldn't be the first time something
like this has happened.

>
> I suspect the source of the problem is a failure in the PLL UNIT.
>
> I recommend going through each alignment step starting on page 33 of the
530's service manual.
>
>
> 73's
> Mike W5RKL
>
>

[Non-text portions of this message have been removed]

22448. Extra filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-16 22:36:27 UTC
From: wrench101
Topic: 22448 Message: 22448

Hello all. I picked up an 820 a few weeks ago and have been working through some of the bugs it has. I've lubed and cleaned the stiff VFO, replaced the VFO lamp,and have tried to figure out the display issues. It has the DG-1 display option installed and looks like it has seen some service in the past. The contacts between the two pc boards have been cleaned which helped, but it seems that, according to info I've found on the web, this unit has cold solder problems. Any suggestions? The biggest concern I have is that an extra filter has been wired to the rig for receive and transmit. It surely takes away from the rich sound I'm used to hearing from these rigs. Can anyone tell me if it is difficult to remove this filter and return the rig to its original sound? The filter itself is mounted on top of the large capacitors nearby and wired with what appears to be some small coax. Would simply de-soldering the filter do the trick? I can provide a pic if needed. Thanks in advance. 73 AI4NV

22449. Re: [TS-520_820_530_830] Extra filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-16 23:18:02 UTC
From: martin
Topic: 22448 Message: 22449

Hi. Looking at the manual, the TS-820(S)is capable of accepting an accessory CW filter. How many filters are in the radio? It should have a stock Kenwood SSB filter installed on the IF board. A look at the manual will show the position.

Is the filter that you are talking about the only filter in the radio? If so, someone may have replaced the stock Kenwood filter with a filter with a narrower bandwidth. If that is the case, you cannot simply remove the filter, it will have to be replaced with the stock Kenwood YG-88S SSB filter. If you can post a good pic to the file section, that might be helpful.

TTYL

wrench101 wrote:
> Hello all. I picked up an 820 a few weeks ago and have been working
> through some of the bugs it has. I've lubed and cleaned the stiff
> VFO, replaced the VFO lamp,and have tried to figure out the display
> issues. It has the DG-1 display option installed and looks like it
> has seen some service in the past. The contacts between the two pc
> boards have been cleaned which helped, but it seems that, according
> to info I've found on the web, this unit has cold solder problems.
> Any suggestions? The biggest concern I have is that an extra filter
> has been wired to the rig for receive and transmit. It surely takes
> away from the rich sound I'm used to hearing from these rigs. Can
> anyone tell me if it is difficult to remove this filter and return
> the rig to its original sound? The filter itself is mounted on top
> of the large capacitors nearby and wired with what appears to be
> some small coax. Would simply de-soldering the filter do the trick?
> I can provide a pic if needed. Thanks in advance. 73 AI4NV
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

22450. Re: TS530S no power or receive on certain bands

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-17 00:09:15 UTC
From: w5rkl
Topic: 22410 Message: 22450

Randy,

When I suspect a switch wafer, I use a magnifying glass and, while rotating the switch wafer, I look at the switch moving blade as it slides through the fixed contacts. If the fix contacts expand then the switch wafer is most likely good. This also assumes the switch contacts are not corroded.

However, if the fixed contacts do not expand then it is quite possible that fixed switch contact may not be making contact with the switches sliding blade. It could be bent or worn to the point the fixed contact is not making connection with the sliding blade.

The band switch wafer S1-1 controls the application of the band select control voltage (9VDC). This voltage is applied to the PLL UNIT through both Counter Unit's plug 4 to 3 then on to the PLL UNIT's plug 1. A failure in one or more switch contacts on switch S1-1 can affect the selection of one or more bands.

In transmit, the PLL UNIT's VCO signal is fed to the RF UNIT where it is mixed with the IF UNIT's "TIF" (Transmit Intermediate Frequency) signal in the dual transmit mixer Q6 and Q7 to produce the transmit operating frequency.

In receive, the same occurs but in reverse, the incoming signal mixes with the VCO signal in the dual receive mixer Q3 and Q4 to produce the "RIF" (Receive Intermediate Frequency) that is fed to the IF UNIT for signal processing.

If the PLL UNIT's VCO band selected signal that is fed to the RF UNIT and the VCO signal level is very low or non-existent for one or more bands, both transmit and receive functions will be affected. That means, if say, 17 meters VCO signal level is non-existent then 17 meter receive AND transmit will not work. You will hear receiver noise but there will be no signals heard and no RF output in transmit.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "k4qo" <k4qo@...> wrote:
>
> Mike,
>
> I think you are right - and after poking around on the bandswitch helping some of the contacts make continuity, I temporarily got 17 meters to work. At this point I have to agree that the bandswitch is probably the culprit.
>
> Its history is known... so I'm not ready to look for Golden Screwdriver marks just yet... Looks to me like the previous owner did copious amounts of contact cleaner some time ago before putting it up on a shelf for several years. It was given to a local here and I am helping him sort it out.
>
> Thanks for all the help and tips! The WARC band thing caught my eye early on but that had

been done already. Wish it was that simple! hi!
>
> 73,
> Randy
> K4QO
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Disabled WARC bands is not the source/cause of the problem.
> >
> > Randy, you didn't state whether you are the original owner or not. If you are not the original owner then I would no discount the possibility that a previous owner took out their golden screw driver and soldering pencil to performed some adjustments/changes/modification that resulted in the problems you are experiencing on 20, 17, and 10 meters. It's possible a previous owner may also have tried to modify the 530 so it would operate on 11 meters and made a mess of things. Wouldn't be the first time something like this has happened.
> >
> > I suspect the source of the problem is a failure in the PLL UNIT.
> >
> > I recommend going through each alignment step starting on page 33 of the 530's service manual.
> >
> >
> > 73's
> > Mike W5RKL
> >
> >
>

22451. Re: Extra filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-17 00:12:03 UTC
From: wrench101
Topic: 22448 Message: 22451

I have posted 2 pictures in the files section in a folder called TS820S Extra Filter. The rig has both the cw and the ssb filter installed on the circuit board and another filter wired to it from the back side and it is mounted on the caps as shown in the pictures. If memory serves me correctly, the previous owner said it was a fox tango filter that was wired for transmit and receive back in 1978. It appears as if I can just unsolder it from the board and return the filtering to normal. Again, any help is greatly appreciated. 73 AI4NV

22452. Re: [TS-520_820_530_830] Re: Extra filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-17 00:20:31 UTC
From: Lou Blasco
Topic: 22448 Message: 22452

Yep I'd pull it out. Take note of where it was installed in case
there are other modifications.

Lou
VK3ALB

At 10:12 AM 17/09/2009, you wrote:
>I have posted 2 pictures in the files section in a folder called
>TS820S Extra Filter. The rig has both the cw and the ssb filter
>installed on the circuit board and another filter wired to it from
>the back side and it is mounted on the caps as shown in the
>pictures. If memory serves me correctly, the previous owner said it
>was a fox tango filter that was wired for transmit and receive back
>in 1978. It appears as if I can just unsolder it from the board and
>return the filtering to normal. Again, any help is greatly
>appreciated. 73 AI4NV
>
>
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>
>Yahoo! Groups Links
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22453. Re: Extra filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-17 00:25:21 UTC
From: w5rkl
Topic: 22448 Message: 22453

The TS-820 and TS-820S came from the factory with a sideband filter only. The CW filter was optional.

It is difficult to determine what "extra" filter that has been installed in your 820's IF UNIT. If the stock factory sideband filter has been installed and is still present on the IF UNIT then you can remove the "other" filter but you will have to check and, if necessary, change the position of the IF UNIT's IF2 plug. See the 820's operating manual for details on inserting IF UNIT's IF2 plug.

If you do not have the 820 operating manual, you can download it from the following website (N6WK):

http://www.n6wk.com/kenwood/

See page 34 for details on installing optional filters and the setting of IF UNIT plug IF2.

One question. Is the "extra" or "other" filter installed in your 820 all silver and "square"? If so then it is most likely an INRAD filter. If it is an INRAD filter, what is written on the top of the filter? You can see INRAD's 820 filters at the following website:

http://www.qth.com/inrad/

INRAD filters are much better than the factory 820 filters.

Another thing that can affect the 820 in both transmit and receive is the PLL and CAR UNIT alignment.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "wrench101" <wrench101@...> wrote:
>
> Hello all. I picked up an 820 a few weeks ago and have been working through some of the bugs it has. I've lubed and cleaned the stiff VFO, replaced the VFO lamp,and have tried to figure out the display issues. It has the DG-1 display option installed and looks like it has seen some service in the past. The contacts between the two pc boards have been cleaned which helped, but it seems that, according to info I've found on the web, this unit has cold solder problems. Any suggestions? The biggest concern I have is that an extra filter has been wired to the rig for receive and transmit. It surely takes away from the rich sound I'm used to hearing from these rigs. Can anyone tell me if it is difficult to remove this filter and return the rig to its original sound? The filter itself is mounted on top of the large capacitors nearby and wired with what appears to be some small coax. Would simply de-soldering the filter do the trick? I can provide a pic if needed. Thanks in advance. 73 AI4NV
>

22454. Re: Extra filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-17 00:33:21 UTC
From: w5rkl
Topic: 22448 Message: 22454

I (W5RKL) said the following:

> It is difficult to determine what "extra" filter that has been
> installed in your 820's IF UNIT.

I missed the response stating the pictures of the filters were in the files section.

However, until you determine what the filter is used for I would not simply pull it out. It does not look like an INRAD filter.

What is written on the top of the filter?

73's
Mike W5RKL

22455. Re: USB & LSB passbands sound different, how to make them sound alike

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-17 00:14:31 UTC
From: scott
Topic: 22455 Message: 22455

I recently acquired a TS-820--my radio has the same symptom. It was shipped to me, which easily can "upset" a radio, and I haven't learned enough about the radio yet to want open it up, but I would like advice on what it might be and how to get it set straight.

Saludos,

Scott (AA0AA)

22456. Re: Extra filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-17 01:18:15 UTC
From: wrench101
Topic: 22448 Message: 22456

Unfortunately, the filter is double side taped onto the caps (upside down for wiring purposes, hence, don't know what it is) and I don't want to damage the caps trying to pull it off. I used a little force and she wouldn't budge. I plan on taking it out of operation and leaving it where it sits for now. I'll (carefully) cut it off the caps later. Would there be any harm in desoldering it from the board and listening to it to see (hear) if it goes back to normal? 73 AI4NV

22458. Re: Extra filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-17 12:15:38 UTC
From: w5rkl
Topic: 22448 Message: 22458

Although I can't say for sure, it appears the previous owner has wired the extra filter in series with the CW filter. To do this, one end of the CW filter PC foil run would have to be cut. Look closely at the IF UNIT where the extra filter's coax cable connects to the IF UNIT CW filter terminal. Do you see a cut in the PC board foil?

Also, what changes, if any, occurs when changing modes?

What position is the IF UNIT's IF2 plug?

Filter selection is achieved by applying a bias voltage to the filter selecting diodes, D5 and D6 for sideband, D7 and D8 for CW. The IF UNIT plug "IF2" must also be set appropriately as outlined on page 34 of the 820's operator's manual.

You can simply disconnect the coax cable from one end of the extra filter. However, by doing so, you may, if the PC board foil on the IF UNIT is cut, loose receive and transmit in CW/TUNE MODE. If this happens, set IF UNIT plug IF2 to position "A" until you correct the modification/change the previous owner has done.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "wrench101" <wrench101@...> wrote:
>
> Unfortunately, the filter is double side taped onto the caps (upside down for wiring purposes, hence, don't know what it is) and I don't want to damage the caps trying to pull it off. I used a little force and she wouldn't budge. I plan on taking it out of operation and leaving it where it sits for now. I'll (carefully) cut it off the caps later. Would there be any harm in desoldering it from the board and listening to it to see (hear) if it goes back to normal? 73 AI4NV
>

22459. Re: Extra filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-17 13:55:26 UTC
From: w5rkl
Topic: 22448 Message: 22459

After looking more closely at the foil side picture you provided and the 820's IF UNIT schematic, it appears a modification has been made to the CW filter connections.

I can't say for sure but it does appear the previous owner has modified the filter connections to add the extra filter in series with the original filter. By doing this the CW mode will have a much tighter bandwidth when the mode switch is set to CW and TUNE. Of course this is assuming the IF UNIT's IF2 plug is set to position "B" as shown in the 820's operator's manual on page 34.

If this is, in fact, what has been done, simply remove both coax cable connections at the IF UNIT's foil side and install a jumper across the cut foil. A short piece of wire shaped to form a "U" with the ends of the wire at a 90 degree angle can be used as a jumper. Check your work to ensure there are no solder bridges that will produce a short where a short should not be.

You said you did not want to remove the extra filter since the double stick tape appears difficult to remove. You can, using care, use a knife and slice down the middle of the double stick tape to remove the extra filter.

To remove the tape from the capacitors simply hold the capacitors firmly in one hand while removing the tape with the other.

To remove the tape from the filter, use label remover. Check you local hardware or Walmart for label remover.

I suspect the extra filter is a Kenwood CW filter YC-88C. If it is and you also find the original CW filter to be bad, you can simply replace the bad filter with the extra filter.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "wrench101" <wrench101@...> wrote:
>
> Unfortunately, the filter is double side taped onto the caps (upside down for wiring purposes, hence, don't know what it is) and I don't want to damage the caps trying to pull it off. I used a little force and she wouldn't budge. I plan on taking it out of operation and leaving it where it sits for now. I'll (carefully) cut it off the caps later. Would there be any harm in desoldering it from the board and listening to it to see (hear) if it goes back to normal? 73 AI4NV
>

22460. RE: [TS-520_820_530_830] Re: USB & LSB passbands sound different, how to make them sound alike

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-17 14:06:13 UTC
From: Greg Anders
Topic: 22455 Message: 22460

Page 49 of the TS-820 Service Manual. Its available on mods.dk. You need a freq. counter. If adjustment to the specified frequencies listed for USB and LSB still produce a different sound (background noise), your crystal filter has aged and isn't symmetrical. In that case I just tweek the frequency slightly on the mode (lsb or usb) that has the higher pitch until it matches the other one. Make sure your IF shift is centered when doing these adjustments.

Simple.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of scott
Sent: Wednesday, September 16, 2009 5:15 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: USB & LSB passbands sound different, how to make them sound alike

I recently acquired a TS-820--my radio has the same symptom. It was
shipped to me, which easily can "upset" a radio, and I haven't learned
enough about the radio yet to want open it up, but I would like advice
on what it might be and how to get it set straight.

Saludos,

Scott (AA0AA)

[Non-text portions of this message have been removed]

22461. Re: Trio TS-520D vs. Kenwood TS-520(S?)...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-17 18:13:13 UTC
From: oh2bps
Topic: 19816 Message: 22461

--- In TS-520_820_530_830@yahoogroups.com, "Jason" <jbeens@...> wrote:
>
> Hello all,
> I have a Trio TS-520D, and I was wondering what the differences between
> this rig and the TS-520S might be. I searched the message archive, and
> found that this was discussed in a thread back in 2006. That thread
> concluded that the 520D was the Japanese version of the 520S. There
> was a mention of the 520D having only a 75 watt final, but no follow-up
> conversation regarding the actual output power.
>
> Very recently I purchased an AT-200 tuner. This represents the first
> watt-meter of reasonable quality that I have been able to attach to
> this rig. I don't seem to be able to tune the rig up beyond 70 watts.
>
> So my question is this... Is the 520D limited by its final to 75 watts
> max, or is the lower power due to the rig's age or (very possibly)
> operator's error? Is there someway for me to inspect the final and
> determine the configuration?
>
> Thanks for reading...
> Jason AE5KR
>

Jason

I got my Trio TS-520D yesterday and oh boy what a great rig it is. Very clean and almost in a mint condition. :)

Finals seem to be working just fine and I can get out some 120W - not a bad deal. Great audio, both TX and TX and this even has 500Hz CW filter installed.

You can see the pic of it here http://oh7ps.com

Best 73's
Ben
OH7PS OH7X OH2BPS

22462. Re: [TS-520_820_530_830] Re: Trio TS-520D vs. Kenwood TS-520(S?)...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-17 19:22:03 UTC
From: Dave ve3wej
Topic: 19816 Message: 22462

nothing on rigpix??? I thought the japanese versions were limitted to 10 watts.... search for a manual???

----- Original Message -----
From: "oh2bps" <bps@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, September 17, 2009 2:13 PM
Subject: [TS-520_820_530_830] Re: Trio TS-520D vs. Kenwood TS-520(S?)...

> --- In TS-520_820_530_830@yahoogroups.com, "Jason" <jbeens@...> wrote:
>>
>> Hello all,
>> I have a Trio TS-520D, and I was wondering what the differences between
>> this rig and the TS-520S might be. I searched the message archive, and
>> found that this was discussed in a thread back in 2006. That thread
>> concluded that the 520D was the Japanese version of the 520S. There
>> was a mention of the 520D having only a 75 watt final, but no follow-up
>> conversation regarding the actual output power.
>>
>> Very recently I purchased an AT-200 tuner. This represents the first
>> watt-meter of reasonable quality that I have been able to attach to
>> this rig. I don't seem to be able to tune the rig up beyond 70 watts.
>>
>> So my question is this... Is the 520D limited by its final to 75 watts
>> max, or is the lower power due to the rig's age or (very possibly)
>> operator's error? Is there someway for me to inspect the final and
>> determine the configuration?
>>
>> Thanks for reading...
>> Jason AE5KR
>>
>
> Jason
>
> I got my Trio TS-520D yesterday and oh boy what a great rig it is. Very
> clean and almost in a mint condition. :)
>
> Finals seem to be working just fine and I can get out some 120W - not a
> bad deal. Great audio, both TX and TX and this even has 500Hz CW filter
> installed.
>
> You can see the pic of it here http://oh7ps.com
>
> Best 73's

> Ben
> OH7PS OH7X OH2BPS
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22463. RE: [TS-520_820_530_830] Re: Trio TS-520D vs. Kenwood TS-520(S?)...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-17 21:41:13 UTC
From: Greg Anders
Topic: 19816 Message: 22463

Jason,

Yes, what tubes are in the final? If you have a manual for the 520D look there. If not, before opening up the final compartment be sure the radio is turned off, power plug pulled and you don't touch the plate caps or the resistors on the caps unless you short them to ground first. The 520S came with a pair of 6146 or S2001 tubes. The S-2001 was the Japanese 6146.
A pair of good 6146 tubes will put out 100-120W into a dummy load with the higher figure found on the low bands (80/40) and 80-90W on 10 meters.
If you have two good tubes you should get around 100-120W output on CW (the higher figure on lower bands) with around 220-230ma showing on the IP switch position (plate current). If the finals are weak it won't put out that much power.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Dave ve3wej
Sent: Thursday, September 17, 2009 12:22 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: Trio TS-520D vs. Kenwood TS-520(S?)...

nothing on rigpix??? I thought the japanese versions were limitted to 10 watts.... search for a manual???

----- Original Message -----
From: "oh2bps" <bps@...<mailto:bps%40oh7ps.com>>
To: <TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>>
Sent: Thursday, September 17, 2009 2:13 PM
Subject: [TS-520_820_530_830] Re: Trio TS-520D vs. Kenwood TS-520(S?)...

> --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "Jason" <jbeens@...> wrote:
>>
>> Hello all,
>> I have a Trio TS-520D, and I was wondering what the differences between
>> this rig and the TS-520S might be. I searched the message archive, and
>> found that this was discussed in a thread back in 2006. That thread
>> concluded that the 520D was the Japanese version of the 520S. There
>> was a mention of the 520D having only a 75 watt final, but no follow-up
>> conversation regarding the actual output power.
>>
>> Very recently I purchased an AT-200 tuner. This represents the first
>> watt-meter of reasonable quality that I have been able to attach to
>> this rig. I don't seem to be able to tune the rig up beyond 70 watts.

>>
>> So my question is this... Is the 520D limited by its final to 75 watts
>> max, or is the lower power due to the rig's age or (very possibly)
>> operator's error? Is there someway for me to inspect the final and
>> determine the configuration?
>>
>> Thanks for reading...
>> Jason AE5KR
>>
>
> Jason
>
> I got my Trio TS-520D yesterday and oh boy what a great rig it is. Very
> clean and almost in a mint condition. :)
>
> Finals seem to be working just fine and I can get out some 120W - not a
> bad deal. Great audio, both TX and TX and this even has 500Hz CW filter
> installed.
>
> You can see the pic of it here http://oh7ps.com
>
> Best 73's
> Ben
> OH7PS OH7X OH2BPS
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[Non-text portions of this message have been removed]

22464. Re: [TS-520_820_530_830] Re: Trio TS-520D vs. Kenwood TS-520(S?)...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-17 21:51:32 UTC
From: pmarkavage
Topic: 19816 Message: 22464

I thought, like the TS-530D, the TS-520D only has one tube in the final.
So 70 watts is reasonable.

Pete, wa2cwa

On Thu, 17 Sep 2009 18:13:13 -0000 "oh2bps" <bps@...> writes:
> --- In TS-520_820_530_830@yahoogroups.com, "Jason" <jbeens@...>
> wrote:
> >
> > Hello all,
> > I have a Trio TS-520D, and I was wondering what the differences
> between
> > this rig and the TS-520S might be. I searched the message
> archive, and
> > found that this was discussed in a thread back in 2006. That
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> > concluded that the 520D was the Japanese version of the 520S.
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> > was a mention of the 520D having only a 75 watt final, but no
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> first
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> > this rig. I don't seem to be able to tune the rig up beyond 70
> watts.
> >
> > So my question is this... Is the 520D limited by its final to 75
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> > max, or is the lower power due to the rig's age or (very possibly)
>
> > operator's error? Is there someway for me to inspect the final
> and
> > determine the configuration?
> >
> > Thanks for reading...
> > Jason AE5KR
> >
>
> Jason
>
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> Very clean and almost in a mint condition. :)
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> Finals seem to be working just fine and I can get out some 120W -
> not a bad deal. Great audio, both TX and TX and this even has 500Hz
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22465. Re: Extra filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-17 23:11:25 UTC
From: wrench101
Topic: 22448 Message: 22465

I am looking for cut traces or any other anomolies, but it sure looks like C9 is missing. Does this make sense? The previous owner stated that he had Fox Tango filters installed shortly after he bought in back in 1978. I'm still in the process of comparing the illustration in the service manual and the circuit board for any differences.

22466. Re: [TS-520_820_530_830] Re: Trio TS-520D vs. Kenwood TS-520(S?)...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-17 23:56:05 UTC
From: Osamu Hazawa
Topic: 19816 Message: 22466

Hello All,

I don't know the TS-520D was introduced to the market other than in Japan,
TS-520D is 100W version of TS-520X (10W, vice versa).
I own an TS-520D and it has 2 final tubes installed.

Osamu

----- Original Message -----
From: pmarkavage
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, September 18, 2009 6:51 AM
Subject: Re: [TS-520_820_530_830] Re: Trio TS-520D vs. Kenwood
TS-520(S?)...

I thought, like the TS-530D, the TS-520D only has one tube in the final.
So 70 watts is reasonable.

Pete, wa2cwa

On Thu, 17 Sep 2009 18:13:13 -0000 "oh2bps" <bps@...> writes:
> --- In TS-520_820_530_830@yahoogroups.com, "Jason" <jbeens@...>
> wrote:
> >
> > Hello all,
> > I have a Trio TS-520D, and I was wondering what the differences
> between
> > this rig and the TS-520S might be. I searched the message
> archive, and
> > found that this was discussed in a thread back in 2006. That
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> > concluded that the 520D was the Japanese version of the 520S.
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> >
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> > watt-meter of reasonable quality that I have been able to attach
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> > this rig. I don't seem to be able to tune the rig up beyond 70
> watts.
> >
> > So my question is this... Is the 520D limited by its final to 75

> watts
> > max, or is the lower power due to the rig's age or (very possibly)
>
> > operator's error? Is there someway for me to inspect the final
> and
> > determine the configuration?
> >
> > Thanks for reading...
> > Jason AE5KR
> >
>
> Jason
>
> I got my Trio TS-520D yesterday and oh boy what a great rig it is.
> Very clean and almost in a mint condition. :)
>
> Finals seem to be working just fine and I can get out some 120W -
> not a bad deal. Great audio, both TX and TX and this even has 500Hz
> CW filter installed.
>
> You can see the pic of it here http://oh7ps.com
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> Best 73's
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[Non-text portions of this message have been removed]

22467. Off Topic Simpson 260

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-18 10:15:25 UTC
From: blacklabpupp
Topic: 22467 Message: 22467

Does anyone know how to service a Simpson 260. I was given a series 7 and I am wondering how to check the meter section to see it is working or damaged. The series 5 that I have works fine but I am not sure if the meter itself is damaged. I know some of you fellows still use them. The only thing I really know to do try to test the meter seperately. I dont think the resistors are bad but I am checking them also. Does anyone know where to get parts? Gene

22468. Re: Extra filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-18 12:49:50 UTC
From: w5rkl
Topic: 22448 Message: 22468

Looking at the foil side picture, it appears, although I can't say for sure, the extra filter is connected between the cathode end of D4 through a .01ufd (103) disc capacitor on the filter itself to the junction of C14 and R11, again, through a .01ufd (103) disc capacitor on the filter. The disc capacitors on the filter, 2 of them, are labled "103" which indicates a capacitance value of ".01ufd".

My recommendation is to remove the coax cable wiring on both foil side connections. If C9 has, in fact, been removed, install a new .01ufd disc capacitor, voltage rating of 25VDC to 50VDC will do fine. This will, at least, put the 820's IF UNIT back to it's original wiring design providing no other components have been removed.

I would then perform the IF UNIT alignment as outlined in the 820's service manual.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "wrench101" <wrench101@...> wrote:
>
> I am looking for cut traces or any other anomolies, but it sure looks like C9 is missing. Does this make sense? The previous owner stated that he had Fox Tango filters installed shortly after he bought in back in 1978. I'm still in the process of comparing the illustration in the service manual and the circuit board for any differences.
>

22469. Re: Trio TS-520D vs. Kenwood TS-520(S?)...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-18 15:52:31 UTC
From: sootydave
Topic: 19816 Message: 22469

Hi Jason.
As pointed out in a earlyer post, the finals maybe going soft. but before replacing them try a new driver tube. my ts-520s was dropping off on the out put and new finals did not help much so i replaced the driver. what a differance.
Dave
KG4UXR
--- In TS-520_820_530_830@yahoogroups.com, "oh2bps" <bps@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Jason" <jbeens@> wrote:
> >
> > Hello all,
> > I have a Trio TS-520D, and I was wondering what the differences between
> > this rig and the TS-520S might be. I searched the message archive, and
> > found that this was discussed in a thread back in 2006. That thread
> > concluded that the 520D was the Japanese version of the 520S. There
> > was a mention of the 520D having only a 75 watt final, but no follow-up
> > conversation regarding the actual output power.
> >
> > Very recently I purchased an AT-200 tuner. This represents the first
> > watt-meter of reasonable quality that I have been able to attach to
> > this rig. I don't seem to be able to tune the rig up beyond 70 watts.
> >
> > So my question is this... Is the 520D limited by its final to 75 watts
> > max, or is the lower power due to the rig's age or (very possibly)
> > operator's error? Is there someway for me to inspect the final and
> > determine the configuration?
> >
> > Thanks for reading...
> > Jason AE5KR
> >
>
> Jason
>
> I got my Trio TS-520D yesterday and oh boy what a great rig it is. Very clean and almost in a mint condition. :)
>
> Finals seem to be working just fine and I can get out some 120W - not a bad deal. Great audio, both TX and TX and this even has 500Hz CW filter installed.
>
> You can see the pic of it here http://oh7ps.com
>
> Best 73's
> Ben
> OH7PS OH7X OH2BPS
>

22470. Re: [TS-520_820_530_830] Off Topic Simpson 260

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-18 13:44:26 UTC
From: Joel
Topic: 22467 Message: 22470

Hi Gene,

Yes, the best way to start is to check the meter separately first. and that you can do with almost any Ohm meter, I have a couple that I still use don't remember the exact models but for sure I think I have the 7, these meters are very easy to fix as their circuitry still uses the basic metering circuit, and differences in the models are a few minor high and low scales.

Oh, you also down load the service and operating manuals I think still, will look for the site if you don't have it already, these are very accurate meter once no tampering was done.

v44kai.....Joel.

----- Original Message -----
From: "blacklabpupp" <blacklabpupp@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, September 18, 2009 5:15 AM
Subject: [TS-520_820_530_830] Off Topic Simpson 260

> Does anyone know how to service a Simpson 260. I was given a series 7 and
> I am wondering how to check the meter section to see it is working or
> damaged. The series 5 that I have works fine but I am not sure if the
> meter itself is damaged. I know some of you fellows still use them. The
> only thing I really know to do try to test the meter seperately. I dont
> think the resistors are bad but I am checking them also. Does anyone know
> where to get parts? Gene
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.103/2378 - Release Date: 09/17/09 06:18:00

22471. Re: [TS-520_820_530_830] Off Topic Simpson 260

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-18 14:05:58 UTC
From: Joel
Topic: 22467 Message: 22471

Remember also to make sure all the batteries are in, that's the only it will work on all the Ohm scales, don't need the batteries for voltage test, Oh and here is the Simpson web site. http://www.simpson260.com/ down load what you want, I think there is also a group. I hope this help.

v44kai.....Joel.

----- Original Message -----
From: "blacklabpupp" <blacklabpupp@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, September 18, 2009 5:15 AM
Subject: [TS-520_820_530_830] Off Topic Simpson 260

> Does anyone know how to service a Simpson 260. I was given a series 7 and
> I am wondering how to check the meter section to see it is working or
> damaged. The series 5 that I have works fine but I am not sure if the
> meter itself is damaged. I know some of you fellows still use them. The
> only thing I really know to do try to test the meter seperately. I dont
> think the resistors are bad but I am checking them also. Does anyone know
> where to get parts? Gene
>
>
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> ------------------------------------
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.103/2378 - Release Date: 09/17/09 06:18:00

22472. Re: Off Topic Simpson 260

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-18 14:18:56 UTC
From: ah6rr1
Topic: 22467 Message: 22472

--- In TS-520_820_530_830@yahoogroups.com, "blacklabpupp" <blacklabpupp@...> wrote:
>
> Does anyone know how to service a Simpson 260. I was given a series 7 and I am wondering how to check the meter section to see it is working or damaged. The series 5 that I have works fine but I am not sure if the meter itself is damaged. I know some of you fellows still use them. The only thing I really know to do try to test the meter seperately. I dont think the resistors are bad but I am checking them also. Does anyone know where to get parts? Gene
>
Simpson still services these meters if in fact there is something wrong with it. The series 7 meters are workhorses and unless someone really abused it it should be ok. The best way to check it is to check known power sources such as a power supply and a 120V ac line. Also get a few 1% resistors and check it with them.
Good luck
Roland AH6RR

22473. TS-820S Front Panel Lights

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-18 15:21:32 UTC
From: danadak
Topic: 22473 Message: 22473

In the service manual I do not see the portion of the schematic that covers power distribution in the 820S. My lights are out, no V at terminal strip they are connected to, so I am wondering if they are AC, or DC, and if any switch positions affect them, off or on.

22474. Re: TS-820S Front Panel Lights

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-18 21:24:51 UTC
From: w5rkl
Topic: 22473 Message: 22474

Look at the bottom middle of the 820 schematic that shows the AC Power Plug wiring. Notice a jumper between pins 7 and 10. Then, look to the right of the power transformer and notice the meter and dial lamps connect to pin "7" and the 12VAC secondary winding of the power transformer connects to pin "10". That's how the lamps obtain power.

The meter and dial lamps do not have a separate switch other than the main power switch. Once power is applied and the 820 main power switch is turned ON, the dial and meter lamps should light "IF" the lamps are good and the wire from pin 7 to the lamps is not broken/open. The tube filaments are also powered from the same 12VAC secondary winding BUT, notice that pin "7" on the rear panel power pins also goes to the HEATER switch S17-2. The schematic show the HEATER switch in the "OFF" position.

The lamps will work with either AC or DC, it doesn't matter.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "danadak" <danaaknight@...> wrote:
>
> In the service manual I do not see the portion of the schematic that covers power distribution in the 820S. My lights are out, no V at terminal strip they are connected to, so I am wondering if they are AC, or DC, and if any switch positions affect them, off or on.
>

22475. Re: Extra filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-19 19:55:23 UTC
From: wrench101
Topic: 22448 Message: 22475

Thank you very much for the info. I've removed the coax and replaced c9 and now have no receive in cw. Now I'm gonna check to see if there are any cut traces or anything else. I plan on removing the board and giving it a thorough examination. Persistance will get it working. :)
73 de AI4NV

22476. RE: [TS-520_820_530_830] Re: Extra filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-19 20:26:24 UTC
From: brad
Topic: 22448 Message: 22476

Is this an extra filter that has 2 coax cables on it?

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of wrench101
Sent: Saturday, September 19, 2009 15:55
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: Extra filter

Thank you very much for the info. I've removed the coax and replaced c9 and
now have no receive in cw. Now I'm gonna check to see if there are any cut
traces or anything else. I plan on removing the board and giving it a
thorough examination. Persistance will get it working. :)
73 de AI4NV

[Non-text portions of this message have been removed]

22477. Re: Extra filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-20 12:20:50 UTC
From: wrench101
Topic: 22448 Message: 22477

Yes, I was finally able to remove it from the caps it was taped to and it is a Fox Tango filter.

22478. ts-530 mic question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-20 17:59:12 UTC
From: cw073
Topic: 22478 Message: 22478

Well you all haven't failed me yet so here goes. What is a good hand mic to go with my 530? I have a Telex/Turner rk56 off of a 10 meter rig from my otr 18 wheeler days. It was top of the line for mobile 10 meters but I have no Idea what the impedance is. Nor how to measure it! Any help will be greatly appreciated.

22479. Re: [TS-520_820_530_830] ts-530 mic question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-20 18:49:37 UTC
From: Scott Litz
Topic: 22478 Message: 22479

impedance should be 500 to 1000 ohms and it should work just fine,rk56 is noise canceling so it knocks out background noise.excellent choice. 73 kc0rom Scott A. Litz

--- On Sun, 9/20/09, cw073 <km5wx@...> wrote:

> From: cw073 <km5wx@...>
> Subject: [TS-520_820_530_830] ts-530 mic question
> To: TS-520_820_530_830@yahoogroups.com
> Date: Sunday, September 20, 2009, 12:59 PM
> Well you all haven't failed me yet
> so here goes. What is a good hand mic to go with my 530? I
> have a Telex/Turner rk56 off of a 10 meter rig from my otr
> 18 wheeler days. It was top of the line for mobile 10 meters
> but I have no Idea what the impedance is. Nor how to measure
> it! Any help will be greatly appreciated.
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>   mailto:TS-520_820_530_830-fullfeatured@yahoogroups.com
>
>
>

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Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

22480. Extremely Clean TS-520 Station FS

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-20 19:55:59 UTC
From: jmcgsd
Topic: 22480 Message: 22480

Kenwood TS-520 with VFO-520, SP-520 and MC-50. This is a classic, vintage station purchased from an SK estate. There is not a mark on any one of the components although they could use a bit of cleaning. It is complete with all original boxes, and the manual for the VFO-520. Not all of the original packaging material is in the boxes, but they are in excellent condition. I unwrapped this from 1978 copies of the San Diego Union newspaper, made some quick checks, plugged it in and signed on to my local California Net on 75 meters. Seems to work great except that I think there is a cold solder or loose solder joint in the cable from the Xcvr to the VFO. I notice that signal levels are lower when tuning with the VFO than with the Xcvr.

I am asking $475 plus $75 UPS Shipping in the Continental U.S. I can accept and prefer PayPal, otherwise U.S. Postal money order. You can pick it up locally in San Diego to save the shipping. I will consider a partial trade. I am especially QRP equiupment (Elecraft, OHR, MFJ, LDG Z11, etc), Vibroplex bugs other that the "standard" and other interesting equipment.

Please email me for picture at af6ni at arrl.net or call 619-840-8736.
Thanks.
Joe

22481. Re: Extra filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-20 21:28:42 UTC
From: loewensteijn@rocketmail.com
Topic: 22448 Message: 22481

Have not followed the whole discussion but had a look at the uploaded pictures. I would have left it alone since I think that you'll find that it is just an additional filter that has been added to increase the skirt and improve the spurious responses.

This is something that was done in my Tentec Omni too (very common in the early TenTec's). Basically a couple of filters get switched in series rather than having a single one. Has a major impact on reception of a weak station if there is a ham starting up with a powerfull signal close to where you are operating.

There may have been some other delicate changes to ensure these filters work properly together (e.g. matching the impedance, getting an extra amplifier stage in there).

73, ZL2ML

22482. FS 6146 Tubes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-21 00:59:23 UTC
From: Ruben Echevarria
Topic: 22482 Message: 22482

While looking for a relay for Gordon I came across a box of tubes.
8-6146B's and 2-6146W's along with 3-12BY7A drivers. First $50.00
plus shipping will take the lot. I no longer have use for them. Sold as is
 Ruben Echevarria KA2HHB
070 Club#861 30MDG#1148
10-10#33308

[Non-text portions of this message have been removed]

22483. Re: [TS-520_820_530_830] FS 6146 Tubes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-21 02:24:44 UTC
From: n6wk@n6wk.com
Topic: 22482 Message: 22483

Ruben,
I'll take them !!

How to pay?

73,
gordon

Ruben Echevarria wrote:
>
>
> While looking for a relay for Gordon I came across a box of tubes.
> 8-6146B's and 2-6146W's along with 3-12BY7A drivers. First $50.00
> plus shipping will take the lot. I no longer have use for them. Sold
> as is
> Ruben Echevarria KA2HHB
> 070 Club#861 30MDG#1148
> 10-10#33308
>
> [Non-text portions of this message have been removed]
>
>

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22484. Re: [TS-520_820_530_830] FS 6146 Tubes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-21 02:31:54 UTC
From: Ruben Echevarria
Topic: 22482 Message: 22484

In your case a check is ok .... plus maybe 10.00 for shipping, have to take the box to a UPS Store and have them
throw them in another box for safety.
 Ruben Echevarria KA2HHB
070 Club#861 30MDG#1148
10-10#33308

From: "n6wk@..." <n6wk@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, September 20, 2009 10:24:44 PM
Subject: Re: [TS-520_820_530_830] FS 6146 Tubes

Ruben,
I'll take them !!

How to pay?

73,
gordon

Ruben Echevarria wrote:
>
>
> While looking for a relay for Gordon I came across a box of tubes.
> 8-6146B's and 2-6146W's along with 3-12BY7A drivers. First $50.00
> plus shipping will take the lot. I no longer have use for them. Sold
> as is
> Ruben Echevarria KA2HHB
> 070 Club#861 30MDG#1148
> 10-10#33308
>
> [Non-text portions of this message have been removed]
>
>

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[Non-text portions of this message have been removed]

22485. Re: [TS-520_820_530_830] FS 6146 Tubes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-21 02:49:55 UTC
From: n6wk@n6wk.com
Topic: 22482 Message: 22485

Ruben,
Done,
Send me your address and I'll mail off a check tomorrow!
Just give me a Total. If $60.00 is fine then that is fine with me as well.
Hope you are doing well.
Thank you.
73,
Gordon

Ruben Echevarria wrote:
>
>
> In your case a check is ok .... plus maybe 10.00 for shipping, have to
> take the box to a UPS Store and have them
> throw them in another box for safety.
> Ruben Echevarria KA2HHB
> 070 Club#861 30MDG#1148
> 10-10#33308
>
> _____
> From: "n6wk@... <mailto:n6wk%40n6wk.com>" <n6wk@...
> <mailto:n6wk%40n6wk.com>>
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Sunday, September 20, 2009 10:24:44 PM
> Subject: Re: [TS-520_820_530_830] FS 6146 Tubes
>
>
> Ruben,
> I'll take them !!
>
> How to pay?
>
> 73,
> gordon
>
> Ruben Echevarria wrote:
> >
> >
> > While looking for a relay for Gordon I came across a box of tubes.
> > 8-6146B's and 2-6146W's along with 3-12BY7A drivers. First $50.00
> > plus shipping will take the lot. I no longer have use for them. Sold
> > as is
> > Ruben Echevarria KA2HHB
> > 070 Club#861 30MDG#1148

> > 10-10#33308
> >
> > [Non-text portions of this message have been removed]
> >
> >
>
> -
>

22486. Re: [TS-520_820_530_830] FS 6146 Tubes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-21 02:56:42 UTC
From: Ruben Echevarria
Topic: 22482 Message: 22486

I'm ok in QRZ Gordon .... $60.00 should cover it ...
 Ruben Echevarria KA2HHB
070 Club#861 30MDG#1148
10-10#33308

From: "n6wk@..." <n6wk@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, September 20, 2009 10:49:55 PM
Subject: Re: [TS-520_820_530_830] FS 6146 Tubes

Ruben,
Done,
Send me your address and I'll mail off a check tomorrow!
Just give me a Total. If $60.00 is fine then that is fine with me as well.
Hope you are doing well.
Thank you.
73,
Gordon

Ruben Echevarria wrote:
>
>
> In your case a check is ok .... plus maybe 10.00 for shipping, have to
> take the box to a UPS Store and have them
> throw them in another box for safety.
> Ruben Echevarria KA2HHB
> 070 Club#861 30MDG#1148
> 10-10#33308
>
> ---------- --------- --------- --
> From: "n6wk@... <mailto:n6wk% 40n6wk.com> " <n6wk@...
> <mailto:n6wk% 40n6wk.com> >
> To: TS-520_820_530_ 830@yahoogroups. com
> <mailto:TS-520_ 820_530_830% 40yahoogroups. com>
> Sent: Sunday, September 20, 2009 10:24:44 PM
> Subject: Re: [TS-520_820_ 530_830] FS 6146 Tubes
>
>
> Ruben,
> I'll take them !!
>
> How to pay?
>
> 73,
> gordon

>
> Ruben Echevarria wrote:
> >
> >
> > While looking for a relay for Gordon I came across a box of tubes.
> > 8-6146B's and 2-6146W's along with 3-12BY7A drivers. First $50.00
> > plus shipping will take the lot. I no longer have use for them. Sold
> > as is
> > Ruben Echevarria KA2HHB
> > 070 Club#861 30MDG#1148
> > 10-10#33308
> >
> > [Non-text portions of this message have been removed]
> >
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>
> -
>

[Non-text portions of this message have been removed]

22487. Question only a Newbie could ask

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-21 20:41:23 UTC
From: rylenfield
Topic: 22487 Message: 22487

New ham, new 520 owner. When I get it tuned up for a certain band and then turn the radio off, when I come back the next day do I need to retune it as long as I am in the same frequency range. I am guessing the answer is yes, but am not sure I understand why.

Also I bought a 520X for parts. Anyone know what market it was made for?
It is a 100v model.

22488. RE: [TS-520_820_530_830] Question only a Newbie could ask

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-21 21:37:59 UTC
From: Greg Anders
Topic: 22487 Message: 22488

If you come back the next day and transmit on the same band/frequency there is no need to retune. If you move frequencies >50-100khz you should "re-touch" the tuning but changes will not be drastic. The most important adjustment to have correctly set is the plate tuning. That should always be "dipped".... Large frequency excursions within a single band will also probably require that you re-adjust the drive tuning as that peaks the output of your 12BY7 driver tune.

Welcome to the crew, newbies have to learn somewhere and this is a good place.

Greg

KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of rylenfield
Sent: Monday, September 21, 2009 1:41 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Question only a Newbie could ask

New ham, new 520 owner. When I get it tuned up for a certain band and then turn the radio off, when I come back the next day do I need to retune it as long as I am in the same frequency range. I am guessing the answer is yes, but am not sure I understand why.

Also I bought a 520X for parts. Anyone know what market it was made for?
It is a 100v model.

[Non-text portions of this message have been removed]

22489. Re: TS-830s ALC Peak Drive Tune Up Question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-22 00:00:35 UTC
From: Noodle10536
Topic: 22096 Message: 22489

Today I got together with a local ham who is also a commercial radio repair technician. I brought the TS-830s to his shop where he has all the diagnostic equipment. He immediately knew something was amiss. He first fixed some cold solder joints. Still things were not right. He moves so fast I could not keep up. Ultimately he showed me that the R2, R3, and R5 resistors were junk with big pock marks out of their sides and corresponding brown spots on the board. He replaced all 4 resistors and then installed and neutralized the new 6146B's. Things worked out just fine. The tuner calibration was nuts on. He checked it on a few bands and then calibrated the S meter as well. That was about all the time we had for our after hours repairs. She's back working again! Thanks for everyone's help! 73 Peter.

22490. 6146 tubes in hybrids...a question...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-22 01:42:43 UTC
From: Jeff E
Topic: 22490 Message: 22490

After reading about N6WK's good fortune (lucky duck, eh?), I started wondering about 6146 tubes in Kenwood hybrid rigs...

Given the experience of the operators within this group, which tubes have given you the "best" service?

6146's? ... 6146B's? ... 6146W's?

I'm just curious... Often, at the monthly Ham/computer "flea market", you find 6146's in various "flavors", & the price is right... Often, you'll hear, "I sold the rig that used them tubes... I never needed to change 'em out." ...

So, what say you, keepers of the tube-type faith ??

Thank you, gentlemen & ladies...

Good operating, & 73.

Jeff Easterly
La Mirada, CA

22491. Re: 6146 tubes in hybrids...a question...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-22 04:09:16 UTC
From: loewensteijn@rocketmail.com
Topic: 22490 Message: 22491

--- In TS-520_820_530_830@yahoogroups.com, "Jeff E" <MrNobody703@...> wrote:
>
> After reading about N6WK's good fortune (lucky duck, eh?), I started wondering about 6146 tubes in Kenwood hybrid rigs...
>
> Given the experience of the operators within this group, which tubes have given you the "best" service?
>
> 6146's? ... 6146B's? ... 6146W's?
>
> I'm just curious... Often, at the monthly Ham/computer "flea market", you find 6146's in various "flavors", & the price is right... Often, you'll hear, "I sold the rig that used them tubes... I never needed to change 'em out." ...
>
> So, what say you, keepers of the tube-type faith ??
>
> Thank you, gentlemen & ladies...
>
> Good operating, & 73.
>
>
> Jeff Easterly
> La Mirada, CA
>

Jeff

it all depends what you mean with "best". If you do a search either in this group or with google you find many lenghty answers. In a nutshell rigs designed for the use of the 6146 / 6146A will become unstable when you put in the 6146B. The 6146W is the "ruggidized" version of either the 6146 / 6146 A or the 6146B depending on when it was manufactured.

Then there are also some remarks (e.g. www.rfparts.com) that do not recommend the 6146W from GE in a Kenwood rig.

For long life the W is advised, for the highest output the B version is best.

73, Marinus, ZL2ML

22493. TS830M

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-22 10:54:23 UTC
From: Marc
Topic: 10675 Message: 22493

I have a little problem with my TS830M.
I seem to have lost the receive signal on AM, but the S meter is still
reacting to incoming signals which I cannot hear. According to the S meter the radio is receiving ok but I cannot hear anything. The radio is working perfectly on all other modes and bands. I have cleaned all the plugs on the little AM board and when I switch to AM mode the relay on the AM board drops out as it appears it should. I hope it is not the mode switch, I would not like to be trying to replace it. The radio was working on AM but I have just discovered that it is not working on AM mode now.

Thanks for reading.
Any help would be appreciated.

Marc

22494. Re: [TS-520_820_530_830] TS830M

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-22 12:37:47 UTC
From: Daniel TOESCA
Topic: 10675 Message: 22494

Could the mode switch be dirty ???????
73's - Daniel, ON5PY

2009/9/22, Marc <kenquad@...>:
>
>
>
> I have a little problem with my TS830M.
> I seem to have lost the receive signal on AM, but the S meter is still
> reacting to incoming signals which I cannot hear. According to the S meter
> the radio is receiving ok but I cannot hear anything. The radio is working
> perfectly on all other modes and bands. I have cleaned all the plugs on the
> little AM board and when I switch to AM mode the relay on the AM board drops
> out as it appears it should. I hope it is not the mode switch, I would not
> like to be trying to replace it. The radio was working on AM but I have just
> discovered that it is not working on AM mode now.
>
> Thanks for reading.
> Any help would be appreciated.
>
> Marc
>
>
>

[Non-text portions of this message have been removed]

22495. Re: [TS-520_820_530_830] TS830M

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-22 13:33:39 UTC
From: MARC McINTYRE
Topic: 10675 Message: 22495

Hi Daniel,
Thanks for reply.
The mode switch is a completely sealed type, not like a wafer type switch, so I dont think this type of switch can be cleaned (I may be wrong) but I dont think so.

Marc.

From: Daniel TOESCA <ON5PY1967@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, 22 September, 2009 13:37:47
Subject: Re: [TS-520_820_530_830] TS830M

Could the mode switch be dirty ???????
73's - Daniel, ON5PY

2009/9/22, Marc <kenquad@yahoo. co.uk>:
>
>
>
> I have a little problem with my TS830M.
> I seem to have lost the receive signal on AM, but the S meter is still
> reacting to incoming signals which I cannot hear. According to the S meter
> the radio is receiving ok but I cannot hear anything. The radio is working
> perfectly on all other modes and bands. I have cleaned all the plugs on the
> little AM board and when I switch to AM mode the relay on the AM board drops
> out as it appears it should. I hope it is not the mode switch, I would not
> like to be trying to replace it. The radio was working on AM but I have just
> discovered that it is not working on AM mode now.
>
> Thanks for reading.
> Any help would be appreciated.
>
> Marc
>
>
>

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[Non-text portions of this message have been removed]

22496. Re: [TS-520_820_530_830] TS830M

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-22 14:44:31 UTC
From: Daniel TOESCA
Topic: 10675 Message: 22496

Hi Marc,

I guess it could be with some contact spray - I had a 830 but cannot remember if I had to do this job.

But, before going to do it, do you hear anything when rotating the mode switch ? Have a closer ear when it is between stops. Try rotating it several times, slowly, and listen to what goes out the set.

For the electronic issues, I can only retrieved the diagram and give some ideas, not more. Maybe there is a 830 guru on the blog....

Last word : you said you hear the relay clicking. Relays too may go erratic with age and wear. If you can open it, you can try by applying some gentle pressure on the make contacts and see what happens.

Good luck & 73's - Daniel

2009/9/22, MARC McINTYRE <kenquad@...>:
>
>
>
> Hi Daniel,
> Thanks for reply.
> The mode switch is a completely sealed type, not like a wafer type switch,
> so I
> dont think this type of switch can be cleaned (I may be wrong) but I dont
> think so.
>
> Marc.
>
> _____
> From: Daniel TOESCA <ON5PY1967@... <ON5PY1967%40GMAIL.COM>>
> To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> Sent: Tuesday, 22 September, 2009 13:37:47
> Subject: Re: [TS-520_820_530_830] TS830M
>
> Could the mode switch be dirty ???????
> 73's - Daniel, ON5PY
>
> 2009/9/22, Marc <kenquad@yahoo. co.uk>:
> >
> >
> >
> > I have a little problem with my TS830M.
> > I seem to have lost the receive signal on AM, but the S meter is still

> > reacting to incoming signals which I cannot hear. According to the S
> meter
> > the radio is receiving ok but I cannot hear anything. The radio is
> working
> > perfectly on all other modes and bands. I have cleaned all the plugs on
> the
> > little AM board and when I switch to AM mode the relay on the AM board
> drops
> > out as it appears it should. I hope it is not the mode switch, I would
> not
> > like to be trying to replace it. The radio was working on AM but I have
> just
> > discovered that it is not working on AM mode now.
> >
> > Thanks for reading.
> > Any help would be appreciated.
> >
> > Marc
> >
> >
> >
>
> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
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22497. Re: [TS-520_820_530_830] Question only a Newbie could ask

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-22 15:42:16 UTC
From: John Davidson
Topic: 22487 Message: 22497

--- On Mon, 9/21/09, rylenfield <kmx888@...> wrote:

Heck NO. I have a TS520 that only is used on 80M CW.
The only time I have to touch the tuning is when it rains or snows on my antenna and the SWR changes. So I have to re dip lthe plate tuning , only a few degrees of rotation of the knob does the trick.
73......JD

New ham, new 520 owner. When I get it tuned up for a certain band and then turn the radio off, when I come back the next day do I need to retune it as long as I am in the same frequency range.

[Non-text portions of this message have been removed]

22498. TS830S Relay

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-22 05:55:13 UTC
From: Allan
Topic: 22498 Message: 22498

I have just taken delivery of my new(?) TS830S. It appears to have a problem with the mode switch.
When I change between USB/LSB, RL1 on the AF board operates for about one second. This is compounded by a suspect dry joint on the same board, which is causing the meter to go to FSD.
Turn the radio on it's back and the meter deflection disappears, flex the AF board and it comes back in. I will pull the board out and check for a dry joint.
It is the operation of RLI when switching modes, I need some advice/help with.
Is this normal on the TS830S, It doesn't happen with my TS530S.

22499. Re: TS830M

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-22 16:12:26 UTC
From: w5rkl
Topic: 10675 Message: 22499

Hello Marc,

The AM UNIT is powered by 12VDC supplied from the AF UNIT's "12" terminal. Ensure 12VDC is present on the AM UNIT by measuring the voltage between plug 2 pin 3 and chassis ground. If there is no 12VDC on plug 2 pin 3 the AM UNIT will not function. Also check for 9VDC at the AM UNIT's AMS terminal. This voltage is only present with the MODE switch in AM.

I also recommend removing both AM UNIT plugs, give a shot of contact cleaner to both AM UNIT sets of pins then reconnect both plugs a few times.

Trace the signal from the IF UNIT to and through the AM UNIT then back to the IF UNIT.

If possible, clean the relay contacts of RL1 on the AM UNIT. A corroded connection can affect the signal as it flows through the AM UNIT, especially the output of Q2 that flows through RL1-2 to the AF UNIT.

Check the AM UNIT's mounting hardware to ensure they are tight.

73's
Mike W5RKL

22500. RE: [TS-520_820_530_830] 6146 tubes in hybrids...a question...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-22 16:15:52 UTC
From: Greg Anders
Topic: 22490 Message: 22500

I have a Johnson Viking Valiant that used the same set of three vanilla 6146's for over thirty years. And that was running 250W input on AM (130W continuous carrier output).
I have used both the 6146W and the GE 6146B. They both are very rugged tubes. If there is any distinction between them, the 6146W is a ruggedized vanilla 6146 with 25W plate dissipation. The 6146B is a re-design with larger plates that resulted in 35W dissipation. However, the 6146B has very different inter-electrode capacitance so it cannot be neutralized in some older rigs that were designed before the 6146B was available ~1969.

FYI,

Greg

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jeff E
Sent: Monday, September 21, 2009 6:43 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] 6146 tubes in hybrids...a question...

After reading about N6WK's good fortune (lucky duck, eh?), I started wondering about 6146 tubes in Kenwood hybrid rigs...

Given the experience of the operators within this group, which tubes have given you the "best" service?

6146's? ... 6146B's? ... 6146W's?

I'm just curious... Often, at the monthly Ham/computer "flea market", you find 6146's in various "flavors", & the price is right... Often, you'll hear, "I sold the rig that used them tubes... I never needed to change 'em out." ...

So, what say you, keepers of the tube-type faith ??

Thank you, gentlemen & ladies...

Good operating, & 73.

Jeff Easterly
La Mirada, CA

[Non-text portions of this message have been removed]

22501. Re: TS830S Relay

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-22 16:17:06 UTC
From: w5rkl
Topic: 22498 Message: 22501

Sounds to me like a PC board ground (board mounting hardware) problem, screws may be loose. The edge where the board mounts to the chassis studs provide a ground and it's possible one or more of the grounds are not making good contact.

I also would no rule out one or more of the board's plugs. The plugs have been known to create a number of problems due to age, use, and environmental affects.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Allan" <afc@...> wrote:
>
> I have just taken delivery of my new(?) TS830S. It appears to have a problem with the mode switch.
> When I change between USB/LSB, RL1 on the AF board operates for about one second. This is compounded by a suspect dry joint on the same board, which is causing the meter to go to FSD.
> Turn the radio on it's back and the meter deflection disappears, flex the AF board and it comes back in. I will pull the board out and check for a dry joint.
> It is the operation of RLI when switching modes, I need some advice/help with.
> Is this normal on the TS830S, It doesn't happen with my TS530S.
>

22502. Re: 6146 tubes in hybrids...a question...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-22 16:20:40 UTC
From: w5rkl
Topic: 22490 Message: 22502

Jeff,

My advice is to read Glen Zook's "The 6146 Family Of Tubes", available in the "files" section of this forum.

Here's the link.

http://f1.grp.yahoofs.com/v1/gPS4Sg-GREl2xQG0uiLzUftVE0YWtckXw0ghrOtjtwo4L0KUOzPjK18XsyIOb_-ESTDChJTUcANZHYgzicAcXPvvUA/The%206146%20Family%20of%20Tubes.doc

This will provide the answers to your questions.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Jeff E" <MrNobody703@...> wrote:
>
> After reading about N6WK's good fortune (lucky duck, eh?), I started wondering about 6146 tubes in Kenwood hybrid rigs...
>
> Given the experience of the operators within this group, which tubes have given you the "best" service?
>
> 6146's? ... 6146B's? ... 6146W's?
>
> I'm just curious... Often, at the monthly Ham/computer "flea market", you find 6146's in various "flavors", & the price is right... Often, you'll hear, "I sold the rig that used them tubes... I never needed to change 'em out." ...
>
> So, what say you, keepers of the tube-type faith ??
>
> Thank you, gentlemen & ladies...
>
> Good operating, & 73.
>
>
> Jeff Easterly
> La Mirada, CA
>

22503. Re: [TS-520_820_530_830] Re: TS830M

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-22 19:00:51 UTC
From: MARC McINTYRE
Topic: 10675 Message: 22503

Hi Mike,
Many thanks for reply.
Iam just home from collecting grand children from school etc and will check the voltages tomorrow. I forgot to mention in my first post, that the radio does transmit on AM. Maybe this will narrow down what you think the problem might be.

Marc.

From: w5rkl <w5rkl@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, 22 September, 2009 17:12:26
Subject: [TS-520_820_530_830] Re: TS830M

Hello Marc,

The AM UNIT is powered by 12VDC supplied from the AF UNIT's "12" terminal. Ensure 12VDC is present on the AM UNIT by measuring the voltage between plug 2 pin 3 and chassis ground. If there is no 12VDC on plug 2 pin 3 the AM UNIT will not function. Also check for 9VDC at the AM UNIT's AMS terminal. This voltage is only present with the MODE switch in AM.

I also recommend removing both AM UNIT plugs, give a shot of contact cleaner to both AM UNIT sets of pins then reconnect both plugs a few times.

Trace the signal from the IF UNIT to and through the AM UNIT then back to the IF UNIT.

If possible, clean the relay contacts of RL1 on the AM UNIT. A corroded connection can affect the signal as it flows through the AM UNIT, especially the output of Q2 that flows through RL1-2 to the AF UNIT.

Check the AM UNIT's mounting hardware to ensure they are tight.

73's
Mike W5RKL

[Non-text portions of this message have been removed]

22504. Re: TS830S Relay

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-22 21:16:21 UTC
From: Allan
Topic: 22498 Message: 22504

Found the trouble with the RL1 relay on the AF board...the TS830S has the Vox on/off switch on the Vox gain, whereas the TS530S has a seperate switch top left side...the TS830S VOX was in the 'ON' position. The relay dosen't operate when the VOX is turned 'OFF'.
I notice that the TS530S's RL1 relay intermittantly operates when changing modes, but not everytime like the TS830S. I suspect it is im the Vox delay setting.

The other problem was the PCB's grounding....All fixed now.

Thankyou for your advice
73's
Allan VK4JAC

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Sounds to me like a PC board ground (board mounting hardware) problem, screws may be loose. The edge where the board mounts to the chassis studs provide a ground and it's possible one or more of the grounds are not making good contact.
>
> I also would no rule out one or more of the board's plugs. The plugs have been known to create a number of problems due to age, use, and environmental affects.
>
> 73's
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Allan" <afc@> wrote:
> >
> > I have just taken delivery of my new(?) TS830S. It appears to have a problem with the mode switch.
> > When I change between USB/LSB, RL1 on the AF board operates for about one second. This is compounded by a suspect dry joint on the same board, which is causing the meter to go to FSD.
> > Turn the radio on it's back and the meter deflection disappears, flex the AF board and it comes back in. I will pull the board out and check for a dry joint.
> > It is the operation of RLI when switching modes, I need some advice/help with.
> > Is this normal on the TS830S, It doesn't happen with my TS530S.
> >
>

22505. TS-520S Transmit trouble

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-22 21:39:29 UTC
From: larry202br
Topic: 22505 Message: 22505

I've been working on this unit for some time, and have pretty much given up. the X44-1190-00 Drive coil unit had been hacked on pretty badly before I got it, with many traces and pads destroyed. there are at least two contacts on the rotary switch damaged as well. I can't get the transmitter to work on all bands, with 1.8 MHz being completely dead now.

What I need is a good X44-1190-00 board. Can anyone help me?

thanks in advance,

Larry, KC0SKX

22506. Re: [TS-520_820_530_830] VFO 240 for sale...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-22 21:38:41 UTC
From: Doug Collins
Topic: 22299 Message: 22506

Steve, have you sold the VFO-240 by chance? I am looking around for one. Bill

--- On Fri, 9/4/09, ke1lg <hanson@...> wrote:

From: ke1lg <hanson@...>
Subject: [TS-520_820_530_830] VFO 240 for sale...
To: TS-520_820_530_830@yahoogroups.com
Date: Friday, September 4, 2009, 8:45 AM

I have a Kenwood VFO 240, with cable, very nice condition. Much reliable than the VFO-230...(Ken, K4EAA uses the 240!)

150.00 + shipping USPS from Maine

Tnx,
Steve in Maine

[Non-text portions of this message have been removed]

22507. Re: TS830M

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-22 22:14:07 UTC
From: w5rkl
Topic: 10675 Message: 22507

--- In TS-520_820_530_830@yahoogroups.com, MARC McINTYRE <kenquad@...> wrote:
>
> Hi Mike,
> Many thanks for reply.
> Iam just home from collecting grand children from school etc and will check the voltages
> tomorrow. I forgot to mention in my first post, that the radio does transmit on AM. Maybe
> this will narrow down what you think the problem might be.
>
> Marc.
>

Hi Marc,

That does help. It is good to know that AM transmit does work.

The standard TS-830S operator's manual does not cover the AM UNIT nor does it show the AM UNIT's connections to the IF UNIT and AF UNIT.

I recommend downloading the TS-830M operator's manual if you do not have it. It's available at the following link.

http://www.radioamateur.eu/schemi/TS830M_user.pdf

The TS-830 service manual, page 61, also shows the AM UNIT and how it is connected.

73's
Mike W5RKL

22508. Re: [TS-520_820_530_830] TS-520S Transmit trouble

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-22 22:16:18 UTC
From: Daniel TOESCA
Topic: 22505 Message: 22508

Hi, Maybe try this one :

http://cgi.ebay.co.uk/Trio-Kenwood-TS-520-X-40-0018-00-mix-coil-unit_W0QQitemZ250370637250QQcmdZViewItemQQptZUK_ConsumerElectronics_SpecialistRadioEquipment_SM?hash=item3a4b40bdc2&_trksid=p4634.c0.m14.l1262

Or monitor what this guy - hifissb - has to sell. Bought some stuff from him. Not that cheap but working.

Good luck & 73's - Daniel, ON5PY

2009/9/22, larry202br <kc0skx@...>:
>
>
>
> I've been working on this unit for some time, and have pretty much given
> up. the X44-1190-00 Drive coil unit had been hacked on pretty badly before I
> got it, with many traces and pads destroyed. there are at least two contacts
> on the rotary switch damaged as well. I can't get the transmitter to work on
> all bands, with 1.8 MHz being completely dead now.
>
> What I need is a good X44-1190-00 board. Can anyone help me?
>
> thanks in advance,
>
> Larry, KC0SKX
>
>
>

[Non-text portions of this message have been removed]

22509. Re: TS830S Relay

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-22 22:36:33 UTC
From: w5rkl
Topic: 22498 Message: 22509

Hello Allen,

Congratulations on fixing your 830.

Unfortunately, the VOX circuit being turned ON actually had nothing to do with the receive and full scale meter problem you experienced. The problem was more than likely caused by poor/loose PC board grounds through the mounting hardware which you have confirmed in your response.

When changing modes with the VOX turned ON, noise is produced that is fed to the VOX amplifier and ultimately to the VOX RELAY amplifiers on the AF UNIT resulting in the relays energizing. The length of time the relays remain energized is determined by the VOX DELAY setting. This is normal and is not a sign of failure. Receive should return immediately when the VOX DELAY times out, relay amplifier's capacitor discharges resulting in the relay amplifier no longer conducting.

Anyway, again, congratulations on fixing your 830.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Allan" <afc@...> wrote:
>
> Found the trouble with the RL1 relay on the AF board...the TS830S has the Vox on/off switch on the Vox gain, whereas the TS530S has a seperate switch top left side...the TS830S VOX was in the 'ON' position. The relay dosen't operate when the VOX is turned 'OFF'.
> I notice that the TS530S's RL1 relay intermittantly operates when changing modes, but not everytime like the TS830S. I suspect it is im the Vox delay setting.
>
> The other problem was the PCB's grounding....All fixed now.
>
> Thankyou for your advice
> 73's
> Allan VK4JAC
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Sounds to me like a PC board ground (board mounting hardware) problem, screws may be loose. The edge where the board mounts to the chassis studs provide a ground and it's possible one or more of the grounds are not making good contact.
> >
> > I also would no rule out one or more of the board's plugs. The plugs have been known to create a number of problems due to age, use, and environmental affects.
> >

> > 73's
> > Mike W5RKL
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Allan" <afc@> wrote:
> > >
> > > I have just taken delivery of my new(?) TS830S. It appears to have a problem with the mode switch.
> > > When I change between USB/LSB, RL1 on the AF board operates for about one second. This is compounded by a suspect dry joint on the same board, which is causing the meter to go to FSD.
> > > Turn the radio on it's back and the meter deflection disappears, flex the AF board and it comes back in. I will pull the board out and check for a dry joint.
> > > It is the operation of RLI when switching modes, I need some advice/help with.
> > > Is this normal on the TS830S, It doesn't happen with my TS530S.
> > >
> >
>

22510. Re: TS-520S Transmit trouble

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-22 23:20:34 UTC
From: larry202br
Topic: 22505 Message: 22510

--- In TS-520_820_530_830@yahoogroups.com, Daniel TOESCA <ON5PY1967@...> wrote:
>
> Hi, Maybe try this one :
>
> http://cgi.ebay.co.uk/Trio-Kenwood-TS-520-X-40-0018-00-mix-coil-unit_W0QQitemZ250370637250QQcmdZViewItemQQptZUK_ConsumerElectronics_SpecialistRadioEquipment_SM?hash=item3a4b40bdc2&_trksid=p4634.c0.m14.l1262
>
> Or monitor what this guy - hifissb - has to sell. Bought some stuff from
> him. Not that cheap but working.
>
> Good luck & 73's - Daniel, ON5PY
>
>
> 2009/9/22, larry202br <kc0skx@...>:
> >
> >
> >
> > I've been working on this unit for some time, and have pretty much given
> > up. the X44-1190-00 Drive coil unit had been hacked on pretty badly before I
> > got it, with many traces and pads destroyed. there are at least two contacts
> > on the rotary switch damaged as well. I can't get the transmitter to work on
> > all bands, with 1.8 MHz being completely dead now.
> >
> > What I need is a good X44-1190-00 board. Can anyone help me?
> >
> > thanks in advance,
> >
> > Larry, KC0SKX
> >
> >
> >
>
>
> [Non-text portions of this message have been removed]
>
Thanks, that's a mix coil unit, and I need a drive coil unit, but maybe that seller will have what I need. I'll keep watch.

22511. TS 830S Coax problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-23 00:46:05 UTC
From: gyancey52
Topic: 22511 Message: 22511

I got this unit about a week ago and when I first fired it up it worked great and then started loosing signals. I thought it wasn't getting any signal so I pulled the send/receive relay and cleaned the contacts but still wasn't getting any signals. I was messing with the coax and found that if I unscrewed it and left it setting in the connector I got good signals but the S meter doesn't deflect but I think that is just an adjustment. I put two different coax cables on the radio and both do the same thing, seems to be a ground issue on the connector but I wanted to check to see if anybody elese had had this problem.

22512. Re: [TS-520_820_530_830] TS 830S Coax problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-23 01:33:40 UTC
From: Jim Stanicek
Topic: 22511 Message: 22512

You have a short somewhere in your antenna system that is causing these problems for you. When you disconnect the shield, your entire coax line is acting like an antenna. If the short were in the connector in the radio, the situation would sound the same whether the shield was connected or not.

Please recheck all the connections to your antenna system, and I am sure you will find a short somewhere, probably at the other end of the cable!

Good luck, and 73, Jim AG3Y

----- Original Message -----
From: gyancey52
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, September 22, 2009 8:46 PM
Subject: [TS-520_820_530_830] TS 830S Coax problem

I got this unit about a week ago and when I first fired it up it worked great and then started loosing signals. I thought it wasn't getting any signal so I pulled the send/receive relay and cleaned the contacts but still wasn't getting any signals. I was messing with the coax and found that if I unscrewed it and left it setting in the connector I got good signals but the S meter doesn't deflect but I think that is just an adjustment. I put two different coax cables on the radio and both do the same thing, seems to be a ground issue on the connector but I wanted to check to see if anybody elese had had this problem.

[Non-text portions of this message have been removed]

22513. Re: [TS-520_820_530_830] Re: TS830M

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-23 09:46:37 UTC
From: MARC McINTYRE
Topic: 10675 Message: 22513

Hello Mike,

I checked the voltages you suggested and all voltages are correct. I cleaned both plugs on the AM board
and connected and disconnected them several times. I also cleaned the plug on the IF board which connects to
plug 1 on the AM board. I cleaned the contacts on Relay 1 on the AM board with Deoxit. Still not hearing
any signals on AM, but as usual the S meter is responding to incoming signals when switched to AM mode.
Unfortunately Mike I do not have a scope to trace the signal.

Marc.

From: w5rkl <w5rkl@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, 22 September, 2009 17:12:26
Subject: [TS-520_820_530_830] Re: TS830M

Hello Marc,

The AM UNIT is powered by 12VDC supplied from the AF UNIT's "12" terminal. Ensure 12VDC is present on the AM UNIT by measuring the voltage between plug 2 pin 3 and chassis ground. If there is no 12VDC on plug 2 pin 3 the AM UNIT will not function. Also check for 9VDC at the AM UNIT's AMS terminal. This voltage is only present with the MODE switch in AM.

I also recommend removing both AM UNIT plugs, give a shot of contact cleaner to both AM UNIT sets of pins then reconnect both plugs a few times.

Trace the signal from the IF UNIT to and through the AM UNIT then back to the IF UNIT.

If possible, clean the relay contacts of RL1 on the AM UNIT. A corroded connection can affect the signal as it flows through the AM UNIT, especially the output of Q2 that flows through RL1-2 to the AF UNIT.

Check the AM UNIT's mounting hardware to ensure they are tight.

73's
Mike W5RKL

[Non-text portions of this message have been removed]

22514. Re: [TS-520_820_530_830] Re: TS830M

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-23 09:48:50 UTC
From: MARC McINTYRE
Topic: 10675 Message: 22514

Hi Mike,

Yes I do have the TS830M manual.

Marc.

From: w5rkl <w5rkl@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, 22 September, 2009 23:14:07
Subject: [TS-520_820_530_830] Re: TS830M

--- In TS-520_820_530_ 830@yahoogroups. com, MARC McINTYRE <kenquad@... > wrote:
>
> Hi Mike,
> Many thanks for reply.
> Iam just home from collecting grand children from school etc and will check the voltages
> tomorrow. I forgot to mention in my first post, that the radio does transmit on AM. Maybe
> this will narrow down what you think the problem might be.
>
> Marc.
>

Hi Marc,

That does help. It is good to know that AM transmit does work.

The standard TS-830S operator's manual does not cover the AM UNIT nor does it show the AM UNIT's connections to the IF UNIT and AF UNIT.

I recommend downloading the TS-830M operator's manual if you do not have it. It's available at the following link.

http://www.radioama teur.eu/schemi/ TS830M_user. pdf

The TS-830 service manual, page 61, also shows the AM UNIT and how it is connected.

73's
Mike W5RKL

[Non-text portions of this message have been removed]

22515. Re: TS830M

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-23 13:58:00 UTC
From: w5rkl
Topic: 10675 Message: 22515

Hello Marc,

The S meter will always indicate a receive signal in AM regardless whether the AM UNIT is working or not. The AM UNIT has nothing to do with the S meter indication in AM.

The 830's AM UNIT is the receiver's AM detector and only functions when the mode switch is in AM.

My initial suspicion is D1 (1N60 germanium diode) on the AM UNIT is open.

Q3 has nothing to do with the symptoms you are experiencing. Q3 is a relay control switching transistor for RL1 on the AM UNIT, nothing more. From your statements the relay on the AM UNIT is working when the MODE switch is placed in AM.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, MARC McINTYRE <kenquad@...> wrote:
>
> Hello Mike,
>
> I checked the voltages you suggested and all voltages are correct. I cleaned both plugs on the AM board
> and connected and disconnected them several times. I also cleaned the plug on the IF board which connects to
> plug 1 on the AM board. I cleaned the contacts on Relay 1 on the AM board with Deoxit. Still not hearing
> any signals on AM, but as usual the S meter is responding to incoming signals when switched to AM mode.
> Unfortunately Mike I do not have a scope to trace the signal.
>
> Marc.
>
>
>
>
>
> _____
> From: w5rkl <w5rkl@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, 22 September, 2009 17:12:26
> Subject: [TS-520_820_530_830] Re: TS830M
>
>
> Hello Marc,
>

> The AM UNIT is powered by 12VDC supplied from the AF UNIT's "12" terminal. Ensure 12VDC is present on the AM UNIT by measuring the voltage between plug 2 pin 3 and chassis ground. If there is no 12VDC on plug 2 pin 3 the AM UNIT will not function. Also check for 9VDC at the AM UNIT's AMS terminal. This voltage is only present with the MODE switch in AM.
>
> I also recommend removing both AM UNIT plugs, give a shot of contact cleaner to both AM UNIT sets of pins then reconnect both plugs a few times.
>
> Trace the signal from the IF UNIT to and through the AM UNIT then back to the IF UNIT.
>
> If possible, clean the relay contacts of RL1 on the AM UNIT. A corroded connection can affect the signal as it flows through the AM UNIT, especially the output of Q2 that flows through RL1-2 to the AF UNIT.
>
> Check the AM UNIT's mounting hardware to ensure they are tight.
>
> 73's
> Mike W5RKL
>
>
>
>
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>
> [Non-text portions of this message have been removed]
>

22516. Re: TS 830S Coax problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-23 14:05:22 UTC
From: w5rkl
Topic: 22511 Message: 22516

Have you tried listening for the 830's Marker (calibrator) signal and adjusting the DRIVE control for a peak S meter reading? This would be my first suggestions. Completely remove the coax cable at the rear of the 830 then turn the Marker ON and tune for the Marker signal.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "gyancey52" <gyancey52@...> wrote:
>
> I got this unit about a week ago and when I first fired it up it worked great and then started loosing signals. I thought it wasn't getting any signal so I pulled the send/receive relay and cleaned the contacts but still wasn't getting any signals. I was messing with the coax and found that if I unscrewed it and left it setting in the connector I got good signals but the S meter doesn't deflect but I think that is just an adjustment. I put two different coax cables on the radio and both do the same thing, seems to be a ground issue on the connector but I wanted to check to see if anybody elese had had this problem.
>

22517. Re: TS 830S Coax problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-23 14:25:12 UTC
From: w5rkl
Topic: 22511 Message: 22517

--- In TS-520_820_530_830@yahoogroups.com, "Jim Stanicek" <jimstan@...> wrote:
>
> You have a short somewhere in your antenna system that is causing these problems for you.

Yes, I agree.

73's
Mike W5RKL

22518. Thanks

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-23 18:43:35 UTC
From: shaun3416
Topic: 70 Message: 22518

Hi it was sometime last year i had a problem with my ts830 ip reading over the 225ma when tuned.Its was indeed the four cathode bias resistors,thanks to w5rkl,ke5put,n6wk and every one else who gave input on the matter.Well now ive got a really nice 830s 100 watts on every band even 10 metres.really pleased.
My next question for the group is about a ts520se,only owned it for a week or so and found the s-metre sensitivity not so good.Ive read the manaul and looks like i need a signal generator its a couple of s points down and only a s7 with the cal-25.Also its had a 6,6 mosfet fitted in q3 rf amp,could any body tell me about this mod.

Regards Shaun

22519. Re: TS 830S Coax problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-23 19:15:12 UTC
From: gyancey52
Topic: 22511 Message: 22519

Thanks for all the help, I found the problem with the coax, insulator was in the wrong position. Just to give a little background. I am presently using a 102" whip for reception only until I can get my Titan DX installed which will be a couple of more weeks as I am recovering from surgery having a kidney removed. I just got my call sign yesterday and am excited to start using it. My S meter is not deflecting any signals no mater how strong they are, do I need to open another topic or can we just go from here?

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Have you tried listening for the 830's Marker (calibrator) signal and adjusting the DRIVE control for a peak S meter reading? This would be my first suggestions. Completely remove the coax cable at the rear of the 830 then turn the Marker ON and tune for the Marker signal.
>
> 73's
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "gyancey52" <gyancey52@> wrote:
> >
> > I got this unit about a week ago and when I first fired it up it worked great and then started loosing signals. I thought it wasn't getting any signal so I pulled the send/receive relay and cleaned the contacts but still wasn't getting any signals. I was messing with the coax and found that if I unscrewed it and left it setting in the connector I got good signals but the S meter doesn't deflect but I think that is just an adjustment. I put two different coax cables on the radio and both do the same thing, seems to be a ground issue on the connector but I wanted to check to see if anybody elese had had this problem.
> >
>

22520. Re: Thanks

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-23 19:26:58 UTC
From: w5rkl
Topic: 70 Message: 22520

Hello Shaun,

Glad to hear your 830 is working great. Always good to hear these responses.

I must say I am not aware of a modification for the receiver's RF amplifier in the 520SE. It may be a subsitute for the Japanese transistor. Some of the original transistors used by Kenwood are very difficult to find if one can find them at all. Substitutions are common which may not be the same transistor as the original.

You can use the Marker to set the S meter. I use 80 meters and connect a dummy load to the antenna SO-239 on the rear of the transceiver. The dummy load provides a 50 ohm load to the transceiver.

Set the 520SE on 80 meters, tune to 3.700, and then adjust the S meter zero pot for a zero no-signal meter indication. Once that is accomplished, turn the Marker ON and tune the VFO for maximum S meter indication. Adjust the DRIVE control, again for maximum S meter indication. If the S meter is below S9, adjust the S meter gain pot for an S9 reading.

I have used this method for quite some time now and it works well for me. I compare the adjustments with my Yaesu FT-757 (receive preamp turned OFF on the 757) and it's quite close.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "shaun3416" <shaun.townsend@...> wrote:
>
> Hi it was sometime last year i had a problem with my ts830 ip reading over the 225ma when tuned.Its was indeed the four cathode bias resistors,thanks to w5rkl,ke5put,n6wk and every one else who gave input on the matter.Well now ive got a really nice 830s 100 watts on every band even 10 metres.really pleased.
> My next question for the group is about a ts520se,only owned it for a week or so and found the s-metre sensitivity not so good.Ive read the manaul and looks like i need a signal generator its a couple of s points down and only a s7 with the cal-25.Also its had a 6,6 mosfet fitted in q3 rf amp,could any body tell me about this mod.
>
> Regards Shaun
>

22521. Re: TS 830S Coax problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-23 19:29:31 UTC
From: w5rkl
Topic: 22511 Message: 22521

Check the AGC switch on the front panel. If it's set to "OFF", the S meter will not indicate an S meter reading on any signal regardless of how weak or strong the signal is.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "gyancey52" <gyancey52@...> wrote:
>
> Thanks for all the help, I found the problem with the coax, insulator was in the wrong position. Just to give a little background. I am presently using a 102" whip for reception only until I can get my Titan DX installed which will be a couple of more weeks as I am recovering from surgery having a kidney removed. I just got my call sign yesterday and am excited to start using it. My S meter is not deflecting any signals no mater how strong they are, do I need to open another topic or can we just go from here?
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > >
> > > Have you tried listening for the 830's Marker (calibrator) signal and adjusting the DRIVE control for a peak S meter reading? This would be my first suggestions. Completely remove the coax cable at the rear of the 830 then turn the Marker ON and tune for the Marker signal.
> > >
> > > 73's
> > > Mike W5RKL
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "gyancey52" <gyancey52@> wrote:
> > > >
> > > > I got this unit about a week ago and when I first fired it up it worked great and then started loosing signals. I thought it wasn't getting any signal so I pulled the send/receive relay and cleaned the contacts but still wasn't getting any signals. I was messing with the coax and found that if I unscrewed it and left it setting in the connector I got good signals but the S meter doesn't deflect but I think that is just an adjustment. I put two different coax cables on the radio and both do the same thing, seems to be a ground issue on the connector but I wanted to check to see if anybody elese had had this problem.
> > > >
> > >
> >

22522. RE: [TS-520_820_530_830] Re: TS 830S Coax problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-23 20:04:26 UTC
From: Greg Anders
Topic: 22511 Message: 22522

I would open another entitled "s-meter" problem or something like that. This thread says coax problem and some who have not been interested may not realize what you are really looking for....

Just my $.02

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of gyancey52
Sent: Wednesday, September 23, 2009 12:15 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS 830S Coax problem

Thanks for all the help, I found the problem with the coax, insulator was in the wrong position. Just to give a little background. I am presently using a 102" whip for reception only until I can get my Titan DX installed which will be a couple of more weeks as I am recovering from surgery having a kidney removed. I just got my call sign yesterday and am excited to start using it. My S meter is not deflecting any signals no mater how strong they are, do I need to open another topic or can we just go from here?

--- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "w5rkl" <w5rkl@...> wrote:
>
> Have you tried listening for the 830's Marker (calibrator) signal and adjusting the DRIVE control for a peak S meter reading? This would be my first suggestions. Completely remove the coax cable at the rear of the 830 then turn the Marker ON and tune for the Marker signal.
>
> 73's
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "gyancey52" <gyancey52@> wrote:
> >
> > I got this unit about a week ago and when I first fired it up it worked great and then started loosing signals. I thought it wasn't getting any signal so I pulled the send/receive relay and cleaned the contacts but still wasn't getting any signals. I was messing with the coax and found that if I unscrewed it and left it setting in the connector I got good signals but the S meter doesn't deflect but I think that is just an adjustment. I put two different coax cables on the radio and both do the same thing, seems to be a ground issue on the connector but I wanted to check to see if anybody elese had had this problem.
> >

>

[Non-text portions of this message have been removed]

22523. Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-24 02:36:56 UTC
From: medical35
Topic: 22523 Message: 22523

When I put the 599D twins in transceive mode and use the transmitter VFO as the RCVR the freq. is on the money.
When I switch to the receiver as the transceive VFO it is off by 15.5 KCS.
I'm using my Omni VII to check this.
I just had a guy align them. Am I doing something wrong? Or did he do something wrong? hi hi.
WWV is on the money.
My 25khz calibrator seems whacky also.
At the bottom of any band I can't hear it on for example 7000 or 7025 but I hear it at 7050 and every 25 kc there after.
Anybody got any ideas what's wrong?
Thanks.

22524. Re: [TS-520_820_530_830] Re: TS830M

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-24 07:51:38 UTC
From: MARC McINTYRE
Topic: 10675 Message: 22524

Hi Mike,

Have just ordered a few 1N60 diodes also Q1 and Q2 just incase, better looking at them than for them Hi.

Thanks again.

Marc.

From: w5rkl <w5rkl@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, 23 September, 2009 14:58:00
Subject: [TS-520_820_530_830] Re: TS830M

Hello Marc,

The S meter will always indicate a receive signal in AM regardless whether the AM UNIT is working or not. The AM UNIT has nothing to do with the S meter indication in AM.

The 830's AM UNIT is the receiver's AM detector and only functions when the mode switch is in AM.

My initial suspicion is D1 (1N60 germanium diode) on the AM UNIT is open.

Q3 has nothing to do with the symptoms you are experiencing. Q3 is a relay control switching transistor for RL1 on the AM UNIT, nothing more. From your statements the relay on the AM UNIT is working when the MODE switch is placed in AM.

73's
Mike W5RKL

--- In TS-520_820_530_ 830@yahoogroups.. com, MARC McINTYRE <kenquad@... > wrote:
>
> Hello Mike,
>
> I checked the voltages you suggested and all voltages are correct. I cleaned both plugs on the AM board
> and connected and disconnected them several times. I also cleaned the plug on the IF board which connects to
> plug 1 on the AM board. I cleaned the contacts on Relay 1 on the AM board with Deoxit. Still not hearing
> any signals on AM, but as usual the S meter is responding to incoming signals when switched to AM mode.
> Unfortunately Mike I do not have a scope to trace the signal.
>
> Marc.
>

>
>
>
>
> _____ _____ _____ __
> From: w5rkl <w5rkl@...>
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Tuesday, 22 September, 2009 17:12:26
> Subject: [TS-520_820_ 530_830] Re: TS830M
>
>
> Hello Marc,
>
> The AM UNIT is powered by 12VDC supplied from the AF UNIT's "12" terminal. Ensure 12VDC is present on the AM UNIT by measuring the voltage between plug 2 pin 3 and chassis ground. If there is no 12VDC on plug 2 pin 3 the AM UNIT will not function. Also check for 9VDC at the AM UNIT's AMS terminal. This voltage is only present with the MODE switch in AM.
>
> I also recommend removing both AM UNIT plugs, give a shot of contact cleaner to both AM UNIT sets of pins then reconnect both plugs a few times.
>
> Trace the signal from the IF UNIT to and through the AM UNIT then back to the IF UNIT.
>
> If possible, clean the relay contacts of RL1 on the AM UNIT. A corroded connection can affect the signal as it flows through the AM UNIT, especially the output of Q2 that flows through RL1-2 to the AF UNIT.
>
> Check the AM UNIT's mounting hardware to ensure they are tight.
>
> 73's
> Mike W5RKL
>
>
>
>
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>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

22525. Re: TS830M

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-24 13:35:15 UTC
From: w5rkl
Topic: 10675 Message: 22525

Hi Marc,

I agree, having the spare parts in the event other components are found to be bad is a good thing.

If you can borrow an oscilloscope, you can trace the AM signal through the AM UNIT quite easily, starting at the IFO2 terminal on the IF UNIT. You do not need an actual AM incoming signal to do this. The 830's Marker (calibrator) signal can provide the "carrier" signal, just as an incoming AM signal would have, to trace the signal through the AM UNIT.

At this point, with the information you have provided, I do not believe any of the other stages, RF, IF, PLL, and AF units are contributing to your problem. If they were then SSB and CW modes would be affected, which they are not.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, MARC McINTYRE <kenquad@...> wrote:
>
> Hi Mike,
>
> Have just ordered a few 1N60 diodes also Q1 and Q2 just incase, better looking at them than for them Hi.
>
> Thanks again.
>
> Marc.
>
>
>
>
> _____
> From: w5rkl <w5rkl@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, 23 September, 2009 14:58:00
> Subject: [TS-520_820_530_830] Re: TS830M
>
>
> Hello Marc,
>
> The S meter will always indicate a receive signal in AM regardless whether the AM UNIT is working or not. The AM UNIT has nothing to do with the S meter indication in AM.
>
> The 830's AM UNIT is the receiver's AM detector and only functions when the mode switch is in AM.
>

> My initial suspicion is D1 (1N60 germanium diode) on the AM UNIT is open.
>
> Q3 has nothing to do with the symptoms you are experiencing. Q3 is a relay control switching transistor for RL1 on the AM UNIT, nothing more. From your statements the relay on the AM UNIT is working when the MODE switch is placed in AM.
>
> 73's
> Mike W5RKL
>

22526. Re: [TS-520_820_530_830] Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-24 15:15:38 UTC
From: Jim Stanicek
Topic: 22523 Message: 22526

Hearing your 25Khz marker EVERY 25Khz is how it is SUPPOSED to work ! You will get 4 marks for every 100 Khz, just like you get 1 mark for every 100Khz with the 100 marker! Perfectly normal.

When you switch sidebands, you have to re-center your VFOs. Are you using the same sideband or mode with both the transmitter and the receiver? Does the background noise change in frequency characteristics when you switch between USB and LSB ?

I just got my twins and am having some problems with the offset crystal. Looks like I will have to get a USB crystal for my receiver. That is what mine is doing, and I have determined that my USB crystal is about 600 hz off frequency at the closest setting of the trimmer (goes higher yet if I turn the trimmer !)

I haven't even set up the transmitter, yet! But I will be as anxious to see any other responses about the frequency accuracy of these units as you are.

Wish us both good luck and good answers!

73, Jim AG3Y

----- Original Message -----
From: medical35
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, September 23, 2009 10:36 PM
Subject: [TS-520_820_530_830] Question 599D Twins

When I put the 599D twins in transceive mode and use the transmitter VFO as the RCVR the freq. is on the money.
When I switch to the receiver as the transceive VFO it is off by 15.5 KCS.
I'm using my Omni VII to check this.
I just had a guy align them. Am I doing something wrong? Or did he do something wrong? hi hi.
WWV is on the money.
My 25khz calibrator seems whacky also.
At the bottom of any band I can't hear it on for example 7000 or 7025 but I hear it at 7050 and every 25 kc there after.
Anybody got any ideas what's wrong?
Thanks.

[Non-text portions of this message have been removed]

22527. Re: [TS-520_820_530_830] Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-24 16:10:35 UTC
From: Don Thomas
Topic: 22523 Message: 22527

Jim,
If the trimmer is a ceramic one try a little deoxit, turn it back and forth a few times and see if it clears up. May be just some oxidation changing the capacitance of the trimmer.

Don T.

--- On Thu, 9/24/09, Jim Stanicek <jimstan@...> wrote:

From: Jim Stanicek <jimstan@myactv.net>
Subject: Re: [TS-520_820_530_830] Question 599D Twins
To: TS-520_820_530_830@yahoogroups.com
Date: Thursday, September 24, 2009, 10:15 AM

Hearing your 25Khz marker EVERY 25Khz is how it is SUPPOSED to work ! You will get 4 marks for every 100 Khz, just like you get 1 mark for every 100Khz with the 100 marker! Perfectly normal.

When you switch sidebands, you have to re-center your VFOs. Are you using the same sideband or mode with both the transmitter and the receiver? Does the background noise change in frequency characteristics when you switch between USB and LSB ?

I just got my twins and am having some problems with the offset crystal. Looks like I will have to get a USB crystal for my receiver. That is what mine is doing, and I have determined that my USB crystal is about 600 hz off frequency at the closest setting of the trimmer (goes higher yet if I turn the trimmer !)

I haven't even set up the transmitter, yet! But I will be as anxious to see any other responses about the frequency accuracy of these units as you are.

Wish us both good luck and good answers!

73, Jim AG3Y

----- Original Message -----
From: medical35
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Wednesday, September 23, 2009 10:36 PM
Subject: [TS-520_820_ 530_830] Question 599D Twins

When I put the 599D twins in transceive mode and use the transmitter VFO as the RCVR the freq. is on the money.
When I switch to the receiver as the transceive VFO it is off by 15.5 KCS.
I'm using my Omni VII to check this.
I just had a guy align them. Am I doing something wrong? Or did he do something wrong? hi hi.
WWV is on the money.
My 25khz calibrator seems whacky also.
At the bottom of any band I can't hear it on for example 7000 or 7025 but I hear it at 7050

and every 25 kc there after.
Anybody got any ideas what's wrong?
Thanks.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

22528. Re: Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-24 17:26:08 UTC
From: w5rkl
Topic: 22523 Message: 22528

--- In TS-520_820_530_830@yahoogroups.com, "medical35" <medical35@...> wrote:
>
> When I put the 599D twins in transceive mode and use the transmitter VFO as the RCVR the freq. is on the money.
> When I switch to the receiver as the transceive VFO it is off by 15.5 KCS.
> I'm using my Omni VII to check this.
> I just had a guy align them. Am I doing something wrong? Or did he do something wrong? hi hi.
> WWV is on the money.
> My 25khz calibrator seems whacky also.
> At the bottom of any band I can't hear it on for example 7000 or 7025 but I hear it at 7050 and every 25 kc there after.

If you have access to a frequency counter, pull the R-599's VFO cable from the rear of the VFO. Connect the frequency counter to the VFO's rear RCA socket. Set the dial to .050 and turn the R-599 ON. What frequency is displayed on the frequency counter? It should be very close to 5.450Mhz.

I also recommend checking the AVR UNIT "9V OUT" terminal, it should measure 9VDC. If it does not, adjust VR1 on the AVR UNIT until it does.

At this point the Marker is not an issue. The Marker can be dealt with and adjusted later.

73's
Mike W5RKL

22529. Re: [TS-520_820_530_830] Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-24 17:23:17 UTC
From: Jim Stanicek
Topic: 22523 Message: 22529

I'm certainly going to try some other things before I pay 30 dollars or more for a crystal. I would hate to see a new crystal behaving EXACTLY like the old one !

I was also told to check for "other things" in the circuit. There are three 10K resistors and transistors in the circuit that switch in and out the various crystals. If one of those resistors has changed value, or the transistors are not fully switching on, that might change the frequency the crystal is oscillating at, too, I suspect.

Well, I must check that out, and then see if there is any difference. I don't know about the trimmers. The crystal drops out of oscillation if I move the trimmer too much, and that is a repeatable condition. More investigation needs to be done before purchasing a part !

Thanks for your advice, and I will keep the group posted .

73, Jim AG3Y

----- Original Message -----
From: Don Thomas
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, September 24, 2009 12:10 PM
Subject: Re: [TS-520_820_530_830] Question 599D Twins

Jim,
If the trimmer is a ceramic one try a little deoxit, turn it back and forth a few times and see if it clears up. May be just some oxidation changing the capacitance of the trimmer.

Don T.

--- On Thu, 9/24/09, Jim Stanicek <jimstan@...> wrote:

From: Jim Stanicek <jimstan@...>
Subject: Re: [TS-520_820_530_830] Question 599D Twins
To: TS-520_820_530_830@yahoogroups.com
Date: Thursday, September 24, 2009, 10:15 AM

Hearing your 25Khz marker EVERY 25Khz is how it is SUPPOSED to work ! You will get 4 marks for every 100 Khz, just like you get 1 mark for every 100Khz with the 100 marker! Perfectly normal.

When you switch sidebands, you have to re-center your VFOs. Are you using the same sideband or mode with both the transmitter and the receiver? Does the background noise change in frequency characteristics when you switch between USB and LSB ?

I just got my twins and am having some problems with the offset crystal. Looks like I will have to get a USB crystal for my receiver. That is what mine is doing, and I have determined that my USB crystal is about 600 hz off frequency at the closest setting of the trimmer (goes higher yet if I turn the trimmer !)

I haven't even set up the transmitter, yet! But I will be as anxious to see any other responses about the frequency accuracy of these units as you are.

Wish us both good luck and good answers!

73, Jim AG3Y

----- Original Message -----
From: medical35
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Wednesday, September 23, 2009 10:36 PM
Subject: [TS-520_820_ 530_830] Question 599D Twins

When I put the 599D twins in transceive mode and use the transmitter VFO as the RCVR the freq. is on the money.
When I switch to the receiver as the transceive VFO it is off by 15.5 KCS.
I'm using my Omni VII to check this.
I just had a guy align them. Am I doing something wrong? Or did he do something wrong? hi hi.
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At the bottom of any band I can't hear it on for example 7000 or 7025 but I hear it at 7050 and every 25 kc there after.
Anybody got any ideas what's wrong?
Thanks.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

22530. Re: Question only a Newbie could ask

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-24 17:05:25 UTC
From: radiobuff777
Topic: 22487 Message: 22530

We were all new at this once. At least you are smart enough to ask, rather than damage your radio. My experience is that you probably are not going to have to tune if you stay in the same band, although a little care to touch up when moving around or between sessions is not a a bad thing. With that being said, when my son was little, I used to be very careful to tune every time, because he loved to play with the knobs when I wasn't looking. Enjoy that rig. I bought a used one on a tip from a friend several years ago, and it has become my favorite rig. the price was right and it provides me with countless hours of enjoyment.

KC2DAQ

In TS-520_820_530_830@yahoogroups.com, "rylenfield" <kmx888@...> wrote:
>
> New ham, new 520 owner. When I get it tuned up for a certain band and then turn the radio off, when I come back the next day do I need to retune it as long as I am in the same frequency range. I am guessing the answer is yes, but am not sure I understand why.
>
> Also I bought a 520X for parts. Anyone know what market it was made for?
> It is a 100v model.
>

22531. TS 830S S meter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-24 17:01:48 UTC
From: gyancey52
Topic: 22531 Message: 22531

I am having problems with my 830s S meter not deflecting. The meter will show some signs of life when running through the frequencies but drops to the far left during monitoring no matter how strong/loud the signal seems to be. I tried to look in the history and found information indicating to look in the service manual on page 47 for instructions on adjustment. However, page 47 on the version I have shows the VFO. Also it said if a signal generator is not available there is a built in calibrator. How do I go about using this. I need instructions on how to adjust my S meter.

22532. Re: Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-24 19:32:55 UTC
From: w5rkl
Topic: 22523 Message: 22532

Jim

You said:

"When I put the 599D twins in transceive mode and use the transmitter VFO as the RCVR the freq. is on the money. When I switch to the receiver as the transceive VFO it is off by 15.5 KCS."

I take that to mean that when you use the R599's VFO to control both receive and transmit (transceive), "ALL" bands are off frequency by the same 15.5Khz.

If that is correct, the RF UNIT heterodyne oscillator crystals are NOT the source of the problem.

In order for the RF UNIT's individual bandswitch selected heterodyne oscillator crystals to be the source of the frequency error, each individual crystal would have to be off frequency by the exact same amount AND be off frequency in the same direction. That is highly unlikely to have occurred.

73's
Mike W5RKL

--- In TS-520_820_530_830@...m, "Jim Stanicek" <jimstan@...> wrote:
>
> I'm certainly going to try some other things before I pay 30 dollars or more for a crystal. I would hate to see a new crystal behaving EXACTLY like the old one !
>
> I was also told to check for "other things" in the circuit. There are three 10K resistors and transistors in the circuit that switch in and out the various crystals. If one of those resistors has changed value, or the transistors are not fully switching on, that might change the frequency the crystal is oscillating at, too, I suspect.
>
> Well, I must check that out, and then see if there is any difference. I don't know about the trimmers. The crystal drops out of oscillation if I move the trimmer too much, and that is a repeatable condition. More investigation needs to be done before purchasing a part !
>
> Thanks for your advice, and I will keep the group posted .
>
> 73, Jim AG3Y
>
>
> ----- Original Message -----
> From: Don Thomas
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, September 24, 2009 12:10 PM
> Subject: Re: [TS-520_820_530_830] Question 599D Twins
>

>
> Jim,
> If the trimmer is a ceramic one try a little deoxit, turn it back and forth a few times and see if it clears up. May be just some oxidation changing the capacitance of the trimmer.
>
> Don T.
>
> --- On Thu, 9/24/09, Jim Stanicek <jimstan@...> wrote:
>
> From: Jim Stanicek <jimstan@...>
> Subject: Re: [TS-520_820_530_830] Question 599D Twins
> To: TS-520_820_530_830@yahoogroups.com
> Date: Thursday, September 24, 2009, 10:15 AM
>
>
>
> Hearing your 25Khz marker EVERY 25Khz is how it is SUPPOSED to work ! You will get 4 marks for every 100 Khz, just like you get 1 mark for every 100Khz with the 100 marker! Perfectly normal.
>
> When you switch sidebands, you have to re-center your VFOs. Are you using the same sideband or mode with both the transmitter and the receiver? Does the background noise change in frequency characteristics when you switch between USB and LSB ?
>
> I just got my twins and am having some problems with the offset crystal. Looks like I will have to get a USB crystal for my receiver. That is what mine is doing, and I have determined that my USB crystal is about 600 hz off frequency at the closest setting of the trimmer (goes higher yet if I turn the trimmer !)
>
> I haven't even set up the transmitter, yet! But I will be as anxious to see any other responses about the frequency accuracy of these units as you are.
>
> Wish us both good luck and good answers!
>
> 73, Jim AG3Y
>
> ----- Original Message -----
> From: medical35
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Wednesday, September 23, 2009 10:36 PM
> Subject: [TS-520_820_ 530_830] Question 599D Twins
>
> When I put the 599D twins in transceive mode and use the transmitter VFO as the RCVR the freq. is on the money.
> When I switch to the receiver as the transceive VFO it is off by 15.5 KCS.
> I'm using my Omni VII to check this.
> I just had a guy align them. Am I doing something wrong? Or did he do something wrong? hi hi.
> WWV is on the money.

> My 25khz calibrator seems whacky also.
> At the bottom of any band I can't hear it on for example 7000 or 7025 but I hear it at 7050 and every 25 kc there after.
> Anybody got any ideas what's wrong?
> Thanks.
>
> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
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22533. Re: TS 830S S meter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-24 19:37:09 UTC
From: w5rkl
Topic: 22531 Message: 22533

The reference to page 47 in the TS-830S service manual was most likely a typo. The correct page number is "37".

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "gyancey52" <gyancey52@...> wrote:
>
> I am having problems with my 830s S meter not deflecting. The meter will show some signs of life when running through the frequencies but drops to the far left during monitoring no matter how strong/loud the signal seems to be. I tried to look in the history and found information indicating to look in the service manual on page 47 for instructions on adjustment. However, page 47 on the version I have shows the VFO. Also it said if a signal generator is not available there is a built in calibrator. How do I go about using this. I need instructions on how to adjust my S meter.
>

22534. Re: [TS-520_820_530_830] Re: TS830M

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-24 20:42:49 UTC
From: MARC McINTYRE
Topic: 10675 Message: 22534

Hi Mike,

Cannot think at the moment where I could get my hands on an oscilloscope, but I can see from your instructions it would be a very handy piece of equipment to have. I have looked at them on the internet and am thinking seriously of buying one. From what you say, it does not
look as though other parts of the circuit are affected, which is a good thing. I just have the
feeling that D1 could be the culprit. We will see when my order arrives.

Marc.

_____
From: w5rkl <w5rkl@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, 24 September, 2009 14:35:15
Subject: [TS-520_820_530_830] Re: TS830M

Hi Marc,

I agree, having the spare parts in the event other components are found to be bad is a good thing.

If you can borrow an oscilloscope, you can trace the AM signal through the AM UNIT quite easily, starting at the IFO2 terminal on the IF UNIT. You do not need an actual AM incoming signal to do this. The 830's Marker (calibrator) signal can provide the "carrier" signal, just as an incoming AM signal would have, to trace the signal through the AM UNIT.

At this point, with the information you have provided, I do not believe any of the other stages, RF, IF, PLL, and AF units are contributing to your problem. If they were then SSB and CW modes would be affected, which they are not.

73's
Mike W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, MARC McINTYRE <kenquad@... > wrote:
>
> Hi Mike,
>
> Have just ordered a few 1N60 diodes also Q1 and Q2 just incase, better looking at them than for them Hi.
>
> Thanks again.
>
> Marc.
>
>

>
>
> _____ _____ _____ __
> From: w5rkl <w5rkl@...>
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Wednesday, 23 September, 2009 14:58:00
> Subject: [TS-520_820_ 530_830] Re: TS830M
>
>
> Hello Marc,
>
> The S meter will always indicate a receive signal in AM regardless whether the AM UNIT is working or not. The AM UNIT has nothing to do with the S meter indication in AM.
>
> The 830's AM UNIT is the receiver's AM detector and only functions when the mode switch is in AM.
>
> My initial suspicion is D1 (1N60 germanium diode) on the AM UNIT is open.
>
> Q3 has nothing to do with the symptoms you are experiencing. Q3 is a relay control switching transistor for RL1 on the AM UNIT, nothing more. From your statements the relay on the AM UNIT is working when the MODE switch is placed in AM.
>
> 73's
> Mike W5RKL
>

[Non-text portions of this message have been removed]

22535. Re: Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-24 19:40:26 UTC
From: medical35
Topic: 22523 Message: 22535

Jim,
I guess you misread my post. I'm NOT hearing the 25khz marker every 25 khz.
Jim

--- In TS-520_820_530_830@yahoogroups.com, "Jim Stanicek" <jimstan@...> wrote:
>
> Hearing your 25Khz marker EVERY 25Khz is how it is SUPPOSED to work ! You will get 4 marks for every 100 Khz, just like you get 1 mark for every 100Khz with the 100 marker! Perfectly normal.
>
> When you switch sidebands, you have to re-center your VFOs. Are you using the same sideband or mode with both the transmitter and the receiver? Does the background noise change in frequency characteristics when you switch between USB and LSB ?
>
> I just got my twins and am having some problems with the offset crystal. Looks like I will have to get a USB crystal for my receiver. That is what mine is doing, and I have determined that my USB crystal is about 600 hz off frequency at the closest setting of the trimmer (goes higher yet if I turn the trimmer !)
>
> I haven't even set up the transmitter, yet! But I will be as anxious to see any other responses about the frequency accuracy of these units as you are.
>
> Wish us both good luck and good answers!
>
> 73, Jim AG3Y
>
>
> ----- Original Message -----
> From: medical35
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, September 23, 2009 10:36 PM
> Subject: [TS-520_820_530_830] Question 599D Twins
>
>
> When I put the 599D twins in transceive mode and use the transmitter VFO as the RCVR the freq. is on the money.
> When I switch to the receiver as the transceive VFO it is off by 15.5 KCS.
> I'm using my Omni VII to check this.
> I just had a guy align them. Am I doing something wrong? Or did he do something wrong? hi hi.
> WWV is on the money.
> My 25khz calibrator seems whacky also.
> At the bottom of any band I can't hear it on for example 7000 or 7025 but I hear it at 7050 and every 25 kc there after.
> Anybody got any ideas what's wrong?

> Thanks.
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

22536. Re: Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-24 20:36:38 UTC
From: medical35
Topic: 22523 Message: 22536

Hello Mike,
I checked the 9V on the AVR unit and it is 9V. I don't have a freq. counter though.
Thanks,
Jim

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "medical35" <medical35@> wrote:
> >
> > When I put the 599D twins in transceive mode and use the transmitter VFO as the RCVR the freq. is on the money.
> > When I switch to the receiver as the transceive VFO it is off by 15.5 KCS.
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> > My 25khz calibrator seems whacky also.
> > At the bottom of any band I can't hear it on for example 7000 or 7025 but I hear it at 7050 and every 25 kc there after.
>
>
> If you have access to a frequency counter, pull the R-599's VFO cable from the rear of the VFO. Connect the frequency counter to the VFO's rear RCA socket. Set the dial to .050 and turn the R-599 ON. What frequency is displayed on the frequency counter? It should be very close to 5.450Mhz.
>
> I also recommend checking the AVR UNIT "9V OUT" terminal, it should measure 9VDC. If it does not, adjust VR1 on the AVR UNIT until it does.
>
> At this point the Marker is not an issue. The Marker can be dealt with and adjusted later.
>
>
> 73's
> Mike W5RKL
>

22537. Re: [TS-520_820_530_830] Re: Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-24 21:17:17 UTC
From: Jim Stanicek
Topic: 22523 Message: 22537

Oh, that is strange, indeed ! I DID misread your post, and see that you said caN'T hear it !

You might think I am getting senile , but I don't believe that to be the case.

1. We are both thinking of crystals, and frequencies being off, but of course the problems are somewhat unrelated in every other way.

2. It does sound to me that my radio has offset problems caused by the offset oscillator(s?) for USB, LSB, CW, and that your radio has a VFO frequency problem !

3. Your problem does NOT sound like an offset crystal problem , but is most likely related to one VFO, the other VFO, or even to both VFOs being off a small amount in different directions !

I would follow the suggesting about tuning the VFO frequency around 5 Mhz in on another receiver and see what you can determine that way.

Remember, you do have to use different sides of the dial when you are receiving either LSB or USB (perhaps CW too?) That is why there are those three marks on the dial scale , with two being on either side of the main center marker. But if you have offset problems along with VFO frequency problems (pretty unlikely as mentioned in an earlier post) you could be all around but not on the desired frequency. It will be interesting to see what we both find!

Good luck with your problem, and I hope you wish me good luck with mine !

73, Jim

I have just started to looking into my radio, and as I said, I am hopefully not going to spend some significant money on parts until I have determined that much less expensive parts are not the cause of the problems.
----- Original Message -----
From: medical35
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, September 24, 2009 3:40 PM
Subject: [TS-520_820_530_830] Re: Question 599D Twins

Jim,
I guess you misread my post. I'm NOT hearing the 25khz marker every 25 khz.
Jim

--- In TS-520_820_530_830@yahoogroups.com, "Jim Stanicek" <jimstan@...> wrote:
>
> Hearing your 25Khz marker EVERY 25Khz is how it is SUPPOSED to work ! You will get 4 marks for every 100 Khz, just like you get 1 mark for every 100Khz with the 100 marker! Perfectly normal.
>

> When you switch sidebands, you have to re-center your VFOs. Are you using the same sideband or mode with both the transmitter and the receiver? Does the background noise change in frequency characteristics when you switch between USB and LSB ?
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> Wish us both good luck and good answers!
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> 73, Jim AG3Y
>
>
> ----- Original Message -----
> From: medical35
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, September 23, 2009 10:36 PM
> Subject: [TS-520_820_530_830] Question 599D Twins
>
>
> When I put the 599D twins in transceive mode and use the transmitter VFO as the RCVR the freq. is on the money.
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> Anybody got any ideas what's wrong?
> Thanks.
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

22538. Re: TS830M

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-24 22:45:28 UTC
From: w5rkl
Topic: 10675 Message: 22538

Hi Marc,

You do not have to spend a lot of money on test equipment. A simple VTVM, signal generator, frequency counter, and oscilloscope will provide you with everything you need to troubleshoot and eventually repair ham gear. I have 2 VTVMs, one from Eico and one from Allied, both do an excellent job. The scope I have is a 20Mhz dual trace that I purchased "NEW" for $100. The signal generator I use is an AN/URM-25D I purchased from Fair Radio Sales in Lima, Ohio, check them out at http://www.fairradio.com/

If you find a simple signal generator such as a Heathkit IG-102 for a cheap price, buy it. I have one that cost me $20 and is in excellent condition, works very well. It's not as stable as the URM-25D but it will provide you with an RF signal. I use it with the URM-25D when substituting oscillator signals.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, MARC McINTYRE <kenquad@...> wrote:
>
> Hi Mike,
>
> Cannot think at the moment where I could get my hands on an oscilloscope, but I can see
> from your instructions it would be a very handy piece of equipment to have. I have looked
> at them on the internet and am thinking seriously of buying one. From what you say, it
does not
> look as though other parts of the circuit are affected, which is a good thing. I just
have the
> feeling that D1 could be the culprit. We will see when my order arrives.
>
> Marc.
>
>
>
>
>
>
> _____
> From: w5rkl <w5rkl@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, 24 September, 2009 14:35:15
> Subject: [TS-520_820_530_830] Re: TS830M
>
>
> Hi Marc,
>
> I agree, having the spare parts in the event other components are found to be bad is a

good thing.
>
> If you can borrow an oscilloscope, you can trace the AM signal through the AM UNIT quite easily, starting at the IFO2 terminal on the IF UNIT. You do not need an actual AM incoming signal to do this. The 830's Marker (calibrator) signal can provide the "carrier" signal, just as an incoming AM signal would have, to trace the signal through the AM UNIT.
>
> At this point, with the information you have provided, I do not believe any of the other stages, RF, IF, PLL, and AF units are contributing to your problem. If they were then SSB and CW modes would be affected, which they are not.
>
> 73's
> Mike W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com, MARC McINTYRE <kenquad@ > wrote:
> >
> > Hi Mike,
> >
> > Have just ordered a few 1N60 diodes also Q1 and Q2 just incase, better looking at them than for them Hi.
> >
> > Thanks again.
> >
> > Marc.
> >
> >
> >
> >
> > _____ _____ _____ __
> > From: w5rkl <w5rkl@>
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Sent: Wednesday, 23 September, 2009 14:58:00
> > Subject: [TS-520_820_ 530_830] Re: TS830M
> >
> >
> > Hello Marc,
> >
> > The S meter will always indicate a receive signal in AM regardless whether the AM UNIT is working or not. The AM UNIT has nothing to do with the S meter indication in AM.
> >
> > The 830's AM UNIT is the receiver's AM detector and only functions when the mode switch is in AM.
> >
> > My initial suspicion is D1 (1N60 germanium diode) on the AM UNIT is open.
> >
> > Q3 has nothing to do with the symptoms you are experiencing. Q3 is a relay control switching transistor for RL1 on the AM UNIT, nothing more. From your statements the relay on the AM UNIT is working when the MODE switch is placed in AM.
> >
> > 73's
> > Mike W5RKL

> >
>
>
>
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>
>
> [Non-text portions of this message have been removed]
>

22539. Re: Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-24 22:49:34 UTC
From: w5rkl
Topic: 22523 Message: 22539

That's good since the VFO and other circuits relay on the 9VDC as a power source.

The 9VDC is produced on the AVR UNIT from the 14VDC supply.

A failure in the 14VDC supply will result in a complete loss of both 14VDC and 9VDC. No 9VDC, no VFO signal and the other circuits that operate from the 9VDC supply will also not work resulting in a receiver that appears "dead". The relays, if the equipment has relays, will also not work since the relays operate from the 14VDC supply.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "medical35" <medical35@...> wrote:
>
> Hello Mike,
> I checked the 9V on the AVR unit and it is 9V. I don't have a freq. counter though.
> Thanks,
> Jim
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "medical35" <medical35@> wrote:
> > >
> > > When I put the 599D twins in transceive mode and use the transmitter VFO as the RCVR the freq. is on the money.
> > > When I switch to the receiver as the transceive VFO it is off by 15.5 KCS.
> > > I'm using my Omni VII to check this.
> > > I just had a guy align them. Am I doing something wrong? Or did he do something wrong? hi hi.
> > > WWV is on the money.
> > > My 25khz calibrator seems whacky also.
> > > At the bottom of any band I can't hear it on for example 7000 or 7025 but I hear it at 7050 and every 25 kc there after.
> >
> >
> > If you have access to a frequency counter, pull the R-599's VFO cable from the rear of the VFO. Connect the frequency counter to the VFO's rear RCA socket. Set the dial to .050 and turn the R-599 ON. What frequency is displayed on the frequency counter? It should be very close to 5.450Mhz.
> >
> > I also recommend checking the AVR UNIT "9V OUT" terminal, it should measure 9VDC. If it does not, adjust VR1 on the AVR UNIT until it does.
> >
> > At this point the Marker is not an issue. The Marker can be dealt with and adjusted

later.
> >
> >
> > 73's
> > Mike W5RKL
> >
>

22540. RE: [TS-520_820_530_830] Re: Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-24 22:57:19 UTC
From: Greg Anders
Topic: 22523 Message: 22540

If I read this issue correctly,

1. When the two units transceive using the transmitter's VFO, the receive and transmit frequencies are the same (as one would expect).

2. When the two units transceiver using the receiver's VFO the frequency is off by 15.KC. As compared by listening on the OmniVII.

This sounds to me like there is something wrong with the receiver VFO maybe....

The one question I would ask is "if you switch to separate them (non-transceive operation) and tune in a signal on the Omni VII, does the receiver receive that same signal reading out the same frequency as the Omni???? In other words, does the receiver track signals on the same frequency as the Omni when it is operated stand alone?

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
Sent: Thursday, September 24, 2009 3:50 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: Question 599D Twins

That's good since the VFO and other circuits relay on the 9VDC as a power source.

The 9VDC is produced on the AVR UNIT from the 14VDC supply.

A failure in the 14VDC supply will result in a complete loss of both 14VDC and 9VDC. No 9VDC, no VFO signal and the other circuits that operate from the 9VDC supply will also not work resulting in a receiver that appears "dead". The relays, if the equipment has relays, will also not work since the relays operate from the 14VDC supply.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "medical35" <medical35@...> wrote:
>
> Hello Mike,
> I checked the 9V on the AVR unit and it is 9V. I don't have a freq. counter though.
> Thanks,
> Jim
>
> --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "w5rkl" <w5rkl@> wrote:
> >
> >

> >
> > --- In
TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>,
"medical35" <medical35@> wrote:
> > >
> > > When I put the 599D twins in transceive mode and use the transmitter VFO as the RCVR
the freq. is on the money.
> > > When I switch to the receiver as the transceive VFO it is off by 15.5 KCS.
> > > I'm using my Omni VII to check this.
> > > I just had a guy align them. Am I doing something wrong? Or did he do something
wrong? hi hi.
> > > WWV is on the money.
> > > My 25khz calibrator seems whacky also.
> > > At the bottom of any band I can't hear it on for example 7000 or 7025 but I hear it
at 7050 and every 25 kc there after.
> >
> >
> > If you have access to a frequency counter, pull the R-599's VFO cable from the rear of
the VFO. Connect the frequency counter to the VFO's rear RCA socket. Set the dial to .050
and turn the R-599 ON. What frequency is displayed on the frequency counter? It should be
very close to 5.450Mhz.
> >
> > I also recommend checking the AVR UNIT "9V OUT" terminal, it should measure 9VDC. If it
does not, adjust VR1 on the AVR UNIT until it does.
> >
> > At this point the Marker is not an issue. The Marker can be dealt with and adjusted
later.
> >
> >
> > 73's
> > Mike W5RKL
> >
>

[Non-text portions of this message have been removed]

22541. Re: Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-24 23:02:37 UTC
From: medical35
Topic: 22523 Message: 22541

Hello,
I can't help but think I've got something hooked up wrong or am doing something wrong. Because when I put them in transceive and use the RCVR vfo as the main rig it is off by about 25kc.
When I do the opposite and use the transmitter vfo as the main rig the freq. is correct. I would just use it this way but the RIT doesn't work when I have it this way. It does the other way.
The reason I think I'm doing something wrong is the fact that it's off 25kc.
If it was anything else I would think it would be an odd number.
I am using CW only and going by the center mark on the dial per the manual.
I can use the rig and get great reports. I just have to look at the dial on 40 meters for example as 7000 being 7025 and 7050 being 7025 and so on.
I have the original transceive cables joining the rigs together and the original antenna interconnect cable.
The person who aligned it said he went by the service manual for the 599 S but that it is the same as the D model.
He used WWV to align as per the service manual for the 599 s and he also went by something to do with 14 mhz.
Is the S model the same as the D that I have as far as alignment?
It is a one owner with original manuals and even the warranty card. (to late to send it in now)
It has the original tubes but they are in great shape.
Looks like a new one. I don't think it's been abused is what I'm pointing out.
Thanks,
Jim

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Jim
>
> You said:
>
> "When I put the 599D twins in transceive mode and use the transmitter VFO as the RCVR the freq. is on the money. When I switch to the receiver as the transceive VFO it is off by 15.5 KCS."
>
>
>
> I take that to mean that when you use the R599's VFO to control both receive and transmit (transceive), "ALL" bands are off frequency by the same 15.5Khz.
>
> If that is correct, the RF UNIT heterodyne oscillator crystals are NOT the source of the problem.
>
> In order for the RF UNIT's individual bandswitch selected heterodyne oscillator crystals

to be the source of the frequency error, each individual crystal would have to be off frequency by the exact same amount AND be off frequency in the same direction. That is highly unlikely to have occurred.
>
> 73's
> Mike W5RKL
>
>
>
>
>
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Jim Stanicek" <jimstan@> wrote:
> >
> > I'm certainly going to try some other things before I pay 30 dollars or more for a crystal. I would hate to see a new crystal behaving EXACTLY like the old one !
> >
> > I was also told to check for "other things" in the circuit. There are three 10K resistors and transistors in the circuit that switch in and out the various crystals. If one of those resistors has changed value, or the transistors are not fully switching on, that might change the frequency the crystal is oscillating at, too, I suspect.
> >
> > Well, I must check that out, and then see if there is any difference. I don't know about the trimmers. The crystal drops out of oscillation if I move the trimmer too much, and that is a repeatable condition. More investigation needs to be done before purchasing a part !
> >
> > Thanks for your advice, and I will keep the group posted .
> >
> > 73, Jim AG3Y
> >
> >
> > ----- Original Message -----
> > From: Don Thomas
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Thursday, September 24, 2009 12:10 PM
> > Subject: Re: [TS-520_820_530_830] Question 599D Twins
> >
> >
> > Jim,
> > If the trimmer is a ceramic one try a little deoxit, turn it back and forth a few times and see if it clears up. May be just some oxidation changing the capacitance of the trimmer.
> >
> > Don T.
> >
> > --- On Thu, 9/24/09, Jim Stanicek <jimstan@> wrote:
> >

> > From: Jim Stanicek <jimstan@>
> > Subject: Re: [TS-520_820_530_830] Question 599D Twins
> > To: TS-520_820_530_830@yahoogroups.com
> > Date: Thursday, September 24, 2009, 10:15 AM
> >
> >
> >
> > Hearing your 25Khz marker EVERY 25Khz is how it is SUPPOSED to work ! You will get 4 marks for every 100 Khz, just like you get 1 mark for every 100Khz with the 100 marker! Perfectly normal.
> >
> > When you switch sidebands, you have to re-center your VFOs. Are you using the same sideband or mode with both the transmitter and the receiver? Does the background noise change in frequency characteristics when you switch between USB and LSB ?
> >
> > I just got my twins and am having some problems with the offset crystal. Looks like I will have to get a USB crystal for my receiver. That is what mine is doing, and I have determined that my USB crystal is about 600 hz off frequency at the closest setting of the trimmer (goes higher yet if I turn the trimmer !)
> >
> > I haven't even set up the transmitter, yet! But I will be as anxious to see any other responses about the frequency accuracy of these units as you are.
> >
> > Wish us both good luck and good answers!
> >
> > 73, Jim AG3Y
> >
> > ----- Original Message -----
> > From: medical35
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Sent: Wednesday, September 23, 2009 10:36 PM
> > Subject: [TS-520_820_ 530_830] Question 599D Twins
> >
> > When I put the 599D twins in transceive mode and use the transmitter VFO as the RCVR the freq. is on the money.
> > When I switch to the receiver as the transceive VFO it is off by 15.5 KCS.
> > I'm using my Omni VII to check this.
> > I just had a guy align them. Am I doing something wrong? Or did he do something wrong? hi hi.
> > WWV is on the money.
> > My 25khz calibrator seems whacky also.
> > At the bottom of any band I can't hear it on for example 7000 or 7025 but I hear it at 7050 and every 25 kc there after.
> > Anybody got any ideas what's wrong?
> > Thanks.
> >
> > [Non-text portions of this message have been removed]
> >
> > [Non-text portions of this message have been removed]
> >

> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

22542. Re: Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-24 23:29:30 UTC
From: medical35
Topic: 22523 Message: 22542

Hello Greg,
Yes. When I use set JUST the xmitter by itself wihout the rcvr hooked up in any way and set it to say 7025 I hear it on my Omni VII on 7025. No problem. All is well.
And it will do the same thing hooked up in transceive using the xmitter vfo in control.
BUT it is off about 25 kc when I go to tranceive and use the RCVR as the control.
So yes it's not tracking correctly. But it will track but it will be off about 25 kc.
I would just use the xmitter as the control rig but the RIT will not work in that configuration. I don't know if that is the way it is. I wouldn't think so.
I've used lots of separate rigs before such as the Drakes, etc. but never had a problem.
Thanks,
Jim

--- In TS-520_820_530_830@yahoogroups.com, Greg Anders <greg.anders@...> wrote:
>
> If I read this issue correctly,
>
>
> 1. When the two units transceive using the transmitter's VFO, the receive and transmit frequencies are the same (as one would expect).
>
> 2. When the two units transceiver using the receiver's VFO the frequency is off by 15.KC. As compared by listening on the OmniVII.
>
> This sounds to me like there is something wrong with the receiver VFO maybe....
>
> The one question I would ask is "if you switch to separate them (non-transceive operation) and tune in a signal on the Omni VII, does the receiver receive that same signal reading out the same frequency as the Omni???? In other words, does the receiver track signals on the same frequency as the Omni when it is operated stand alone?
>
> Greg
> KG6YV
>
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
> Sent: Thursday, September 24, 2009 3:50 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: Question 599D Twins
>
>
>
> That's good since the VFO and other circuits relay on the 9VDC as a power source.
>
> The 9VDC is produced on the AVR UNIT from the 14VDC supply.
>

> A failure in the 14VDC supply will result in a complete loss of both 14VDC and 9VDC. No 9VDC, no VFO signal and the other circuits that operate from the 9VDC supply will also not work resulting in a receiver that appears "dead". The relays, if the equipment has relays, will also not work since the relays operate from the 14VDC supply.
>
> 73's
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "medical35" <medical35@> wrote:
> >
> > Hello Mike,
> > I checked the 9V on the AVR unit and it is 9V. I don't have a freq. counter though.
> > Thanks,
> > Jim
> >
> > --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "w5rkl" <w5rkl@> wrote:
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "medical35" <medical35@> wrote:
> > > >
> > > > When I put the 599D twins in transceive mode and use the transmitter VFO as the RCVR the freq. is on the money.
> > > > When I switch to the receiver as the transceive VFO it is off by 15.5 KCS.
> > > > I'm using my Omni VII to check this.
> > > > I just had a guy align them. Am I doing something wrong? Or did he do something wrong? hi hi.
> > > > WWV is on the money.
> > > > My 25khz calibrator seems whacky also.
> > > > At the bottom of any band I can't hear it on for example 7000 or 7025 but I hear it at 7050 and every 25 kc there after.
> > >
> > >
> > > If you have access to a frequency counter, pull the R-599's VFO cable from the rear of the VFO. Connect the frequency counter to the VFO's rear RCA socket. Set the dial to .050 and turn the R-599 ON. What frequency is displayed on the frequency counter? It should be very close to 5.450Mhz.
> > >
> > > I also recommend checking the AVR UNIT "9V OUT" terminal, it should measure 9VDC. If it does not, adjust VR1 on the AVR UNIT until it does.
> > >
> > > At this point the Marker is not an issue. The Marker can be dealt with and adjusted later.
> > >
> > >

> > > 73's
> > > Mike W5RKL
> > >
> >
>
>
> [Non-text portions of this message have been removed]
>

22543. RE: [TS-520_820_530_830] Re: Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-24 23:38:12 UTC
From: Greg Anders
Topic: 22523 Message: 22543

Hi Jim,

This is a very strange issue. I too have used, refurbished and aligned numerous separate units for transceiver (S-line, Drake-4 lines, Swan Twins). I owned a set of the Kenwood twins and never had an issue (small consolation to you)....

Anyway, I think your receiver is aligned OK. Most "separate" setups share either "just" the VFO in shared-transceive or they share the BFO from the control unit.
Does the manual indicate what is actually being shared? The only thing I can think of is that it is possible that the transmitter is "loading" the VFO in the receiver when you use the receiver VFO to drive both units. I know you checked the +9V supply voltage in the receiver, but I wonder if that dips when trying to use the receiver VFO to set freq. on both units???? In other words check the +(VDC when you select transceiver using the receiver VFO. I had a Yaesu hybrid that did this and my VFO jumped 18 kc.

FWIW, its something to check. This is soooooo rare it has to be fixable....

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of medical35
Sent: Thursday, September 24, 2009 4:30 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: Question 599D Twins

Hello Greg,
Yes. When I use set JUST the xmitter by itself wihout the rcvr hooked up in any way and set it to say 7025 I hear it on my Omni VII on 7025. No problem. All is well.
And it will do the same thing hooked up in transceive using the xmitter vfo in control.
BUT it is off about 25 kc when I go to tranceive and use the RCVR as the control.
So yes it's not tracking correctly. But it will track but it will be off about 25 kc.
I would just use the xmitter as the control rig but the RIT will not work in that configuration. I don't know if that is the way it is. I wouldn't think so.
I've used lots of separate rigs before such as the Drakes, etc. but never had a problem.
Thanks,
Jim

--- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, Greg Anders <greg.anders@...> wrote:
>
> If I read this issue correctly,
>
>
> 1. When the two units transceive using the transmitter's VFO, the receive and transmit frequencies are the same (as one would expect).
>

> 2. When the two units transceiver using the receiver's VFO the frequency is off by 15.KC. As compared by listening on the OmniVII.
>
> This sounds to me like there is something wrong with the receiver VFO maybe....
>
> The one question I would ask is "if you switch to separate them (non-transceive operation) and tune in a signal on the Omni VII, does the receiver receive that same signal reading out the same frequency as the Omni???? In other words, does the receiver track signals on the same frequency as the Omni when it is operated stand alone?
>
> Greg
> KG6YV
>
> From: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com> [mailto:TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of w5rkl
> Sent: Thursday, September 24, 2009 3:50 PM
> To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> Subject: [TS-520_820_530_830] Re: Question 599D Twins
>
>
>
> That's good since the VFO and other circuits relay on the 9VDC as a power source.
>
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>
> A failure in the 14VDC supply will result in a complete loss of both 14VDC and 9VDC. No 9VDC, no VFO signal and the other circuits that operate from the 9VDC supply will also not work resulting in a receiver that appears "dead". The relays, if the equipment has relays, will also not work since the relays operate from the 14VDC supply.
>
> 73's
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com>, "medical35" <medical35@> wrote:
> >
> > Hello Mike,
> > I checked the 9V on the AVR unit and it is 9V. I don't have a freq. counter though.
> > Thanks,
> > Jim
> >
> > --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com> <mailto:TS-520_820_530_830%40yahoogroups.com>, "w5rkl" <w5rkl@> wrote:
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com>, "medical35" <medical35@> wrote:
> > > >

> > > > When I put the 599D twins in transceive mode and use the transmitter VFO as the RCVR the freq. is on the money.
> > > > When I switch to the receiver as the transceive VFO it is off by 15.5 KCS.
> > > > I'm using my Omni VII to check this.
> > > > I just had a guy align them. Am I doing something wrong? Or did he do something wrong? hi hi.
> > > > WWV is on the money.
> > > > My 25khz calibrator seems whacky also.
> > > > At the bottom of any band I can't hear it on for example 7000 or 7025 but I hear it at 7050 and every 25 kc there after.
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> > >
> > > If you have access to a frequency counter, pull the R-599's VFO cable from the rear of the VFO. Connect the frequency counter to the VFO's rear RCA socket. Set the dial to .050 and turn the R-599 ON. What frequency is displayed on the frequency counter? It should be very close to 5.450Mhz.
> > >
> > > I also recommend checking the AVR UNIT "9V OUT" terminal, it should measure 9VDC. If it does not, adjust VR1 on the AVR UNIT until it does.
> > >
> > > At this point the Marker is not an issue. The Marker can be dealt with and adjusted later.
> > >
> > >
> > > 73's
> > > Mike W5RKL
> > >
> >
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

22544. Re: [TS-520_820_530_830] Re: Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-25 07:11:09 UTC
From: pmarkavage
Topic: 22523 Message: 22544

I would remove the transceive cable and check the alignment of both units as two non-connected pieces of equipment. The transmitter stand-alone requires nothing other then a dummy load and sounds like it's functioning the way it should. The receiver will require several jumpers in the connector where you plugged in the tranceiver cable. Out of the box, the R-599D came with this jumper plug. Note: the VFO signals between both units are tranferred through the transceiver cable. If you can determine how each performs stand-alone, and if there are issues, solved them, then you can set up for transceiver operation and then decide if you have further issues. Hopefully, you have a good frequency counter, a scope, and a decent signal generator to aid in servicing, because without them, finding the problem is like trying to catch flies in the dark.

Pete, wa2cwa

> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of medical35
> Sent: Thursday, September 24, 2009 4:30 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: Question 599D Twins
>
>
>
> Hello Greg,
> Yes. When I use set JUST the xmitter by itself wihout the rcvr
> hooked up in any way and set it to say 7025 I hear it on my Omni VII
> on 7025. No problem. All is well.
> And it will do the same thing hooked up in transceive using the
> xmitter vfo in control.
> BUT it is off about 25 kc when I go to tranceive and use the RCVR as
> the control.
> So yes it's not tracking correctly. But it will track but it will be
> off about 25 kc.
> I would just use the xmitter as the control rig but the RIT will not
> work in that configuration. I don't know if that is the way it is. I
> wouldn't think so.
> I've used lots of separate rigs before such as the Drakes, etc. but
> never had a problem.
> Thanks,
> Jim

22545. Re: [TS-520_820_530_830] Re: Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-25 12:23:01 UTC
From: Daniel TOESCA
Topic: 22523 Message: 22545

Check the offset voltage right at the Rx VFO terminal in both separate and transceive mode - a LARGE change could lead to a connection problem in the transceive cable or connectors or wiring around them, maybe the relay in R599 - check the rx diagram.

73's - Daniel, ON5PY

2009/9/25, medical35 <medical35@...>:
>
>
>
> Hello Greg,
> Yes. When I use set JUST the xmitter by itself wihout the rcvr hooked up in
> any way and set it to say 7025 I hear it on my Omni VII on 7025. No problem.
> All is well.
> And it will do the same thing hooked up in transceive using the xmitter vfo
> in control.
> BUT it is off about 25 kc when I go to tranceive and use the RCVR as the
> control.
> So yes it's not tracking correctly. But it will track but it will be off
> about 25 kc.
> I would just use the xmitter as the control rig but the RIT will not work
> in that configuration. I don't know if that is the way it is. I wouldn't
> think so.
> I've used lots of separate rigs before such as the Drakes, etc. but never
> had a problem.
> Thanks,
> Jim
>
> --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> Greg Anders <greg.anders@...> wrote:
> >
> > If I read this issue correctly,
> >
> >
> > 1. When the two units transceive using the transmitter's VFO, the receive
> and transmit frequencies are the same (as one would expect).
> >
> > 2. When the two units transceiver using the receiver's VFO the frequency
> is off by 15.KC. As compared by listening on the OmniVII.
> >
> > This sounds to me like there is something wrong with the receiver VFO
> maybe....
> >
> > The one question I would ask is "if you switch to separate them

> (non-transceive operation) and tune in a signal on the Omni VII, does the
> receiver receive that same signal reading out the same frequency as the
> Omni???? In other words, does the receiver track signals on the same
> frequency as the Omni when it is operated stand alone?
> >
> > Greg
> > KG6YV
> >
> > From: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>[mailto:
> TS-520_820_530_830@yahoogroups.com <TS-520_820_530_830%40yahoogroups.com>]
> On Behalf Of w5rkl
> > Sent: Thursday, September 24, 2009 3:50 PM
> > To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> > Subject: [TS-520_820_530_830] Re: Question 599D Twins
> >
> >
> >
> > That's good since the VFO and other circuits relay on the 9VDC as a power
> source.
> >
> > The 9VDC is produced on the AVR UNIT from the 14VDC supply.
> >
> > A failure in the 14VDC supply will result in a complete loss of both
> 14VDC and 9VDC. No 9VDC, no VFO signal and the other circuits that operate
> from the 9VDC supply will also not work resulting in a receiver that appears
> "dead". The relays, if the equipment has relays, will also not work since
> the relays operate from the 14VDC supply.
> >
> > 73's
> > Mike W5RKL
> >
> > --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com<TS-520_820_530_830%2540yahoogroups.com>>,
> "medical35" <medical35@> wrote:
> > >
> > > Hello Mike,
> > > I checked the 9V on the AVR unit and it is 9V. I don't have a freq.
> counter though.
> > > Thanks,
> > > Jim
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com<TS-520_820_530_830%2540yahoogroups.com>>,
> "w5rkl" <w5rkl@> wrote:
> > > >
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com<TS-520_820_530_830%2540yahoogroups.com>>,
> "medical35" <medical35@> wrote:

> > > > >
> > > > > When I put the 599D twins in transceive mode and use the
> transmitter VFO as the RCVR the freq. is on the money.
> > > > > When I switch to the receiver as the transceive VFO it is off by
> 15.5 KCS.
> > > > > I'm using my Omni VII to check this.
> > > > > I just had a guy align them. Am I doing something wrong? Or did he
> do something wrong? hi hi.
> > > > > WWV is on the money.
> > > > > My 25khz calibrator seems whacky also.
> > > > > At the bottom of any band I can't hear it on for example 7000 or
> 7025 but I hear it at 7050 and every 25 kc there after.
> > > >
> > > >
> > > > If you have access to a frequency counter, pull the R-599's VFO cable
> from the rear of the VFO. Connect the frequency counter to the VFO's rear
> RCA socket. Set the dial to .050 and turn the R-599 ON. What frequency is
> displayed on the frequency counter? It should be very close to 5.450Mhz.
> > > >
> > > > I also recommend checking the AVR UNIT "9V OUT" terminal, it should
> measure 9VDC. If it does not, adjust VR1 on the AVR UNIT until it does.
> > > >
> > > > At this point the Marker is not an issue. The Marker can be dealt
> with and adjusted later.
> > > >
> > > >
> > > > 73's
> > > > Mike W5RKL
> > > >
> > >
> >
> >
> > [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

22546. Re: [TS-520_820_530_830] TS 830S S meter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-25 12:25:35 UTC
From: Daniel TOESCA
Topic: 22531 Message: 22546

Usually set zero with a control marked ' zero set ' and about S9 + 20 dB
with the calibrator peaked at 14 MHz using the other control - 73's, Daniel
ON5PY

2009/9/24, gyancey52 <gyancey52@...>:
>
>
>
> I am having problems with my 830s S meter not deflecting. The meter will
> show some signs of life when running through the frequencies but drops to
> the far left during monitoring no matter how strong/loud the signal seems to
> be. I tried to look in the history and found information indicating to look
> in the service manual on page 47 for instructions on adjustment. However,
> page 47 on the version I have shows the VFO. Also it said if a signal
> generator is not available there is a built in calibrator. How do I go about
> using this. I need instructions on how to adjust my S meter.
>
>
>

[Non-text portions of this message have been removed]

22547. Re: [TS-520_820_530_830] Re: Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-25 12:58:26 UTC
From: Kurt Cathcart
Topic: 22523 Message: 22547

If you push the dial of the receiver back towards the chassis it will allow you to turn the dial without changing the frequency of the VFO. This way you can match what the VFO is set to and what the dial reads.

----- Original Message -----
From: medical35
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, September 24, 2009 7:02 PM
Subject: [TS-520_820_530_830] Re: Question 599D Twins

Hello,
I can't help but think I've got something hooked up wrong or am doing something wrong. Because when I put them in transceive and use the RCVR vfo as the main rig it is off by about 25kc.
When I do the opposite and use the transmitter vfo as the main rig the freq. is correct.
I would just use it this way but the RIT doesn't work when I have it this way. It does the other way.
The reason I think I'm doing something wrong is the fact that it's off 25kc.
If it was anything else I would think it would be an odd number.
I am using CW only and going by the center mark on the dial per the manual.
I can use the rig and get great reports. I just have to look at the dial on 40 meters for example as 7000 being 7025 and 7050 being 7025 and so on.
I have the original transceive cables joining the rigs together and the original antenna interconnect cable.
The person who aligned it said he went by the service manual for the 599 S but that it is the same as the D model.
He used WWV to align as per the service manual for the 599 s and he also went by something to do with 14 mhz.
Is the S model the same as the D that I have as far as alignment?
It is a one owner with original manuals and even the warranty card. (to late to send it in now)
It has the original tubes but they are in great shape.
Looks like a new one. I don't think it's been abused is what I'm pointing out.
Thanks,
Jim

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Jim
>
> You said:
>
> "When I put the 599D twins in transceive mode and use the transmitter VFO as the RCVR the freq. is on the money. When I switch to the receiver as the transceive VFO it is off by 15.5 KCS."
>

>
>
> I take that to mean that when you use the R599's VFO to control both receive and transmit (transceive), "ALL" bands are off frequency by the same 15.5Khz.
>
> If that is correct, the RF UNIT heterodyne oscillator crystals are NOT the source of the problem.
>
> In order for the RF UNIT's individual bandswitch selected heterodyne oscillator crystals to be the source of the frequency error, each individual crystal would have to be off frequency by the exact same amount AND be off frequency in the same direction. That is highly unlikely to have occurred.
>
> 73's
> Mike W5RKL
>
>
>
>
>
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Jim Stanicek" <jimstan@> wrote:
> >
> > I'm certainly going to try some other things before I pay 30 dollars or more for a crystal. I would hate to see a new crystal behaving EXACTLY like the old one !
> >
> > I was also told to check for "other things" in the circuit. There are three 10K resistors and transistors in the circuit that switch in and out the various crystals. If one of those resistors has changed value, or the transistors are not fully switching on, that might change the frequency the crystal is oscillating at, too, I suspect.
> >
> > Well, I must check that out, and then see if there is any difference. I don't know about the trimmers. The crystal drops out of oscillation if I move the trimmer too much, and that is a repeatable condition. More investigation needs to be done before purchasing a part !
> >
> > Thanks for your advice, and I will keep the group posted .
> >
> > 73, Jim AG3Y
> >
> >
> > ----- Original Message -----
> > From: Don Thomas
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Thursday, September 24, 2009 12:10 PM
> > Subject: Re: [TS-520_820_530_830] Question 599D Twins
> >

> >
> > Jim,
> > If the trimmer is a ceramic one try a little deoxit, turn it back and forth a few times and see if it clears up. May be just some oxidation changing the capacitance of the trimmer.
> >
> > Don T.
> >
> > --- On Thu, 9/24/09, Jim Stanicek <jimstan@> wrote:
> >
> > From: Jim Stanicek <jimstan@>
> > Subject: Re: [TS-520_820_530_830] Question 599D Twins
> > To: TS-520_820_530_830@yahoogroups.com
> > Date: Thursday, September 24, 2009, 10:15 AM
> >
> >
> >
> > Hearing your 25Khz marker EVERY 25Khz is how it is SUPPOSED to work ! You will get 4 marks for every 100 Khz, just like you get 1 mark for every 100Khz with the 100 marker! Perfectly normal.
> >
> > When you switch sidebands, you have to re-center your VFOs. Are you using the same sideband or mode with both the transmitter and the receiver? Does the background noise change in frequency characteristics when you switch between USB and LSB ?
> >
> > I just got my twins and am having some problems with the offset crystal. Looks like I will have to get a USB crystal for my receiver. That is what mine is doing, and I have determined that my USB crystal is about 600 hz off frequency at the closest setting of the trimmer (goes higher yet if I turn the trimmer !)
> >
> > I haven't even set up the transmitter, yet! But I will be as anxious to see any other responses about the frequency accuracy of these units as you are.
> >
> > Wish us both good luck and good answers!
> >
> > 73, Jim AG3Y
> >
> > ----- Original Message -----
> > From: medical35
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Sent: Wednesday, September 23, 2009 10:36 PM
> > Subject: [TS-520_820_ 530_830] Question 599D Twins
> >
> > When I put the 599D twins in transceive mode and use the transmitter VFO as the RCVR the freq. is on the money.
> > When I switch to the receiver as the transceive VFO it is off by 15.5 KCS.
> > I'm using my Omni VII to check this.
> > I just had a guy align them. Am I doing something wrong? Or did he do something wrong? hi hi.
> > WWV is on the money.

> > My 25khz calibrator seems whacky also.
> > At the bottom of any band I can't hear it on for example 7000 or 7025 but I hear it at 7050 and every 25 kc there after.
> > Anybody got any ideas what's wrong?
> > Thanks.
> >
> > [Non-text portions of this message have been removed]
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22548. Re: [TS-520_820_530_830] Re: Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-25 14:19:00 UTC
From: Jim Stanicek
Topic: 22523 Message: 22548

That brings up an intersting question that I have about the VFO dial. I love that silky smooth feel that the dial has, but it is almost too loose! Is there any friction set for the dial, like there is on my old Icom gear ? I don't see any reference to one so far. Just wonder if some of you more experienced fellows might know about this.

I really appreciate all the info we are getting about these 599s! All of it is being stored with the manuals that I have for the units. BTW, if anyone would like a portion of a schematic blown up for reference (originals are rather small) I might be able to do it, and put the results into the files section ! Just offering !

73, Jim AG3Y

----- Original Message -----
From: Kurt Cathcart
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, September 25, 2009 8:58 AM
Subject: Re: [TS-520_820_530_830] Re: Question 599D Twins

If you push the dial of the receiver back towards the chassis it will allow you to turn the dial without changing the frequency of the VFO. This way you can match what the VFO is set to and what the dial reads.

----- Original Message -----
From: medical35
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, September 24, 2009 7:02 PM
Subject: [TS-520_820_530_830] Re: Question 599D Twins

Hello,
I can't help but think I've got something hooked up wrong or am doing something wrong. Because when I put them in transceive and use the RCVR vfo as the main rig it is off by about 25kc.
When I do the opposite and use the transmitter vfo as the main rig the freq. is correct. I would just use it this way but the RIT doesn't work when I have it this way. It does the other way.
The reason I think I'm doing something wrong is the fact that it's off 25kc.
If it was anything else I would think it would be an odd number.
I am using CW only and going by the center mark on the dial per the manual.
I can use the rig and get great reports. I just have to look at the dial on 40 meters for example as 7000 being 7025 and 7050 being 7025 and so on.
I have the original transceive cables joining the rigs together and the original antenna interconnect cable.
The person who aligned it said he went by the service manual for the 599 S but that it is the same as the D model.
He used WWV to align as per the service manual for the 599 s and he also went by something to do with 14 mhz.

Is the S model the same as the D that I have as far as alignment?
It is a one owner with original manuals and even the warranty card. (to late to send it in now)
It has the original tubes but they are in great shape.
Looks like a new one. I don't think it's been abused is what I'm pointing out.
Thanks,
Jim

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Jim
>
> You said:
>
> "When I put the 599D twins in transceive mode and use the transmitter VFO as the RCVR the freq. is on the money. When I switch to the receiver as the transceive VFO it is off by 15.5 KCS."
>
>
>
> I take that to mean that when you use the R599's VFO to control both receive and transmit (transceive), "ALL" bands are off frequency by the same 15.5Khz.
>
> If that is correct, the RF UNIT heterodyne oscillator crystals are NOT the source of the problem.
>
> In order for the RF UNIT's individual bandswitch selected heterodyne oscillator crystals to be the source of the frequency error, each individual crystal would have to be off frequency by the exact same amount AND be off frequency in the same direction. That is highly unlikely to have occurred.
>
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> Mike W5RKL
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>
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>
> --- In TS-520_820_530_830@yahoogroups.com, "Jim Stanicek" <jimstan@> wrote:
> >
> > I'm certainly going to try some other things before I pay 30 dollars or more for a crystal. I would hate to see a new crystal behaving EXACTLY like the old one !
> >
> > I was also told to check for "other things" in the circuit. There are three 10K resistors and transistors in the circuit that switch in and out the various crystals. If one of those resistors has changed value, or the transistors are not fully switching on,

that might change the frequency the crystal is oscillating at, too, I suspect.
> >
> > Well, I must check that out, and then see if there is any difference. I don't know about the trimmers. The crystal drops out of oscillation if I move the trimmer too much, and that is a repeatable condition. More investigation needs to be done before purchasing a part !
> >
> > Thanks for your advice, and I will keep the group posted .
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> > 73, Jim AG3Y
> >
> >
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> >
> >
> > Jim,
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> >
> > Don T.
> >
> > --- On Thu, 9/24/09, Jim Stanicek <jimstan@> wrote:
> >
> > From: Jim Stanicek <jimstan@>
> > Subject: Re: [TS-520_820_530_830] Question 599D Twins
> > To: TS-520_820_530_830@yahoogroups.com
> > Date: Thursday, September 24, 2009, 10:15 AM
> >
> >
> >
> > Hearing your 25Khz marker EVERY 25Khz is how it is SUPPOSED to work ! You will get 4 marks for every 100 Khz, just like you get 1 mark for every 100Khz with the 100 marker! Perfectly normal.
> >
> > When you switch sidebands, you have to re-center your VFOs. Are you using the same sideband or mode with both the transmitter and the receiver? Does the background noise change in frequency characteristics when you switch between USB and LSB ?
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> > I just got my twins and am having some problems with the offset crystal. Looks like I will have to get a USB crystal for my receiver. That is what mine is doing, and I have determined that my USB crystal is about 600 hz off frequency at the closest setting of the trimmer (goes higher yet if I turn the trimmer !)
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> > I haven't even set up the transmitter, yet! But I will be as anxious to see any other responses about the frequency accuracy of these units as you are.
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> > Wish us both good luck and good answers!
> >
> > 73, Jim AG3Y
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> > From: medical35
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Sent: Wednesday, September 23, 2009 10:36 PM
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> >
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22549. RE: [TS-520_820_530_830] Re: Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-25 15:55:19 UTC
From: Greg Anders
Topic: 22523 Message: 22549

Here is a tip for anyone who wants a little friction in VFO dial drives.

I own a Yaesu FT-1000D which is notorious for having a knob that will fly from one end of the band to the other with just a spin. Very annoying when you are trying to zero on a net.

Anyway, here is a simple solution that may work on other radios.

Felt car battery washers. You know, the ones they sell for the terminals.....

Yes, go to the local auto store and buy a couple of those thin felt washers. You can put one behind the knob and if it fits you will have just a small amount of friction if you adjust the position of the knob on the shaft correctly.

This simple modification now makes my FT-1000D very very easy to tune precisely. I used a slight application of glue to hold the washer to the knob on the backside.....

FYI,

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jim Stanicek
Sent: Friday, September 25, 2009 7:19 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: Question 599D Twins

That brings up an intersting question that I have about the VFO dial. I love that silky smooth feel that the dial has, but it is almost too loose! Is there any friction set for the dial, like there is on my old Icom gear ? I don't see any reference to one so far. Just wonder if some of you more experienced fellows might know about this.

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73, Jim AG3Y

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To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
Sent: Friday, September 25, 2009 8:58 AM
Subject: Re: [TS-520_820_530_830] Re: Question 599D Twins

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To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
Sent: Thursday, September 24, 2009 7:02 PM
Subject: [TS-520_820_530_830] Re: Question 599D Twins

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I can use the rig and get great reports. I just have to look at the dial on 40 meters for example as 7000 being 7025 and 7050 being 7025 and so on.
I have the original transceive cables joining the rigs together and the original antenna interconnect cable.
The person who aligned it said he went by the service manual for the 599 S but that it is the same as the D model.
He used WWV to align as per the service manual for the 599 s and he also went by something to do with 14 mhz.
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Thanks,
Jim

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>
> Jim
>
> You said:
>
> "When I put the 599D twins in transceive mode and use the transmitter VFO as the RCVR the freq. is on the money. When I switch to the receiver as the transceive VFO it is off by 15.5 KCS."
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>
>
> I take that to mean that when you use the R599's VFO to control both receive and transmit (transceive), "ALL" bands are off frequency by the same 15.5Khz.
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> If that is correct, the RF UNIT heterodyne oscillator crystals are NOT the source of the problem.
>
> In order for the RF UNIT's individual bandswitch selected heterodyne oscillator crystals

to be the source of the frequency error, each individual crystal would have to be off frequency by the exact same amount AND be off frequency in the same direction. That is highly unlikely to have occurred.
>
> 73's
> Mike W5RKL
>
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> --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "Jim Stanicek" <jimstan@> wrote:
> >
> > I'm certainly going to try some other things before I pay 30 dollars or more for a crystal. I would hate to see a new crystal behaving EXACTLY like the old one !
> >
> > I was also told to check for "other things" in the circuit. There are three 10K resistors and transistors in the circuit that switch in and out the various crystals. If one of those resistors has changed value, or the transistors are not fully switching on, that might change the frequency the crystal is oscillating at, too, I suspect.
> >
> > Well, I must check that out, and then see if there is any difference. I don't know about the trimmers. The crystal drops out of oscillation if I move the trimmer too much, and that is a repeatable condition. More investigation needs to be done before purchasing a part !
> >
> > Thanks for your advice, and I will keep the group posted .
> >
> > 73, Jim AG3Y
> >
> >
> > ----- Original Message -----
> > From: Don Thomas
> > To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> > Sent: Thursday, September 24, 2009 12:10 PM
> > Subject: Re: [TS-520_820_530_830] Question 599D Twins
> >
> >
> > Jim,
> > If the trimmer is a ceramic one try a little deoxit, turn it back and forth a few times and see if it clears up. May be just some oxidation changing the capacitance of the trimmer.
> >
> > Don T.
> >
> > --- On Thu, 9/24/09, Jim Stanicek <jimstan@> wrote:

> >
> > From: Jim Stanicek <jimstan@>
> > Subject: Re: [TS-520_820_530_830] Question 599D Twins
> > To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> > Date: Thursday, September 24, 2009, 10:15 AM
> >
> >
> >
> > Hearing your 25Khz marker EVERY 25Khz is how it is SUPPOSED to work ! You will get 4 marks for every 100 Khz, just like you get 1 mark for every 100Khz with the 100 marker! Perfectly normal.
> >
> > When you switch sidebands, you have to re-center your VFOs. Are you using the same sideband or mode with both the transmitter and the receiver? Does the background noise change in frequency characteristics when you switch between USB and LSB ?
> >
> > I just got my twins and am having some problems with the offset crystal. Looks like I will have to get a USB crystal for my receiver. That is what mine is doing, and I have determined that my USB crystal is about 600 hz off frequency at the closest setting of the trimmer (goes higher yet if I turn the trimmer !)
> >
> > I haven't even set up the transmitter, yet! But I will be as anxious to see any other responses about the frequency accuracy of these units as you are.
> >
> > Wish us both good luck and good answers!
> >
> > 73, Jim AG3Y
> >
> > ----- Original Message -----
> > From: medical35
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Sent: Wednesday, September 23, 2009 10:36 PM
> > Subject: [TS-520_820_ 530_830] Question 599D Twins
> >
> > When I put the 599D twins in transceive mode and use the transmitter VFO as the RCVR the freq. is on the money.
> > When I switch to the receiver as the transceive VFO it is off by 15.5 KCS.
> > I'm using my Omni VII to check this.
> > I just had a guy align them. Am I doing something wrong? Or did he do something wrong? hi hi.
> > WWV is on the money.
> > My 25khz calibrator seems whacky also.
> > At the bottom of any band I can't hear it on for example 7000 or 7025 but I hear it at 7050 and every 25 kc there after.
> > Anybody got any ideas what's wrong?
> > Thanks.
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22550. Re: Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-25 16:16:25 UTC
From: Ken
Topic: 22523 Message: 22550

> > WWV is on the money.
> > My 25khz calibrator seems whacky also.
> > At the bottom of any band I can't hear it on for example 7000 or > > 7025 but I hear it at 7050 and every 25 kc there after.
> > Anybody got any ideas what's wrong?
> > Thanks.
> >

Could be the tuning capacitor plates shorting out at the bottom end of the tuning range. This would show up on every band. A close inspection of the plates is in order or a monitoring of the vfo output to make sure that there is a proper output signal at all positions of the tuning cap.

Ken - KB7H

22551. TS-830S relay

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-25 17:03:33 UTC
From: W8SFC
Topic: 22551 Message: 22551

I have the replacement relay from K4EAA but is the relay on the rig a "solder in" or is it in a socket?

73'
Sid W8SFC

22552. Re: [TS-520_820_530_830] TS-830S relay

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-25 17:57:58 UTC
From: n6wk@n6wk.com
Topic: 22551 Message: 22552

Hi Sid,
if it is the T/R relay, it is plugged into a socket under the Finals
Area inside a small metal enclosure.

73,
Gordon

.

W8SFC wrote:
>
>
> I have the replacement relay from K4EAA but is the relay on the rig a
> "solder in" or is it in a socket?
>
> 73'
> Sid W8SFC
>
>

22553. Re: Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-25 19:55:49 UTC
From: medical35
Topic: 22523 Message: 22553

Hello Kurt,
I have felt all along that this may be the problem. But I can't get it to do it.
I am pushing in as hard as I can on the front of the tuning dial but nothing is happening.
Can you elaborate on anything that might help me do this? Or give a detailed description?
I know it's pretty cut and dried like just push in the the front and the dial and turn it but I'm doing that and nothing is happening.
Thanks,
Jim

--- In TS-520_820_530_830@yahoogroups.com, "Kurt Cathcart" <kurt@...> wrote:
>
> If you push the dial of the receiver back towards the chassis it will allow you to turn the dial without changing the frequency of the VFO. This way you can match what the VFO is set to and what the dial reads.
>
>
>
> ----- Original Message -----
> From: medical35
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, September 24, 2009 7:02 PM
> Subject: [TS-520_820_530_830] Re: Question 599D Twins
>
>
>
> Hello,
> I can't help but think I've got something hooked up wrong or am doing something wrong.
> Because when I put them in transceive and use the RCVR vfo as the main rig it is off by about 25kc.
> When I do the opposite and use the transmitter vfo as the main rig the freq. is correct.
> I would just use it this way but the RIT doesn't work when I have it this way. It does the other way.
> The reason I think I'm doing something wrong is the fact that it's off 25kc.
> If it was anything else I would think it would be an odd number.
> I am using CW only and going by the center mark on the dial per the manual.
> I can use the rig and get great reports. I just have to look at the dial on 40 meters for example as 7000 being 7025 and 7050 being 7025 and so on.
> I have the original transceive cables joining the rigs together and the original antenna interconnect cable.
> The person who aligned it said he went by the service manual for the 599 S but that it is the same as the D model.
> He used WWV to align as per the service manual for the 599 s and he also went by something to do with 14 mhz.
> Is the S model the same as the D that I have as far as alignment?
> It is a one owner with original manuals and even the warranty card. (to late to send it in now)

> It has the original tubes but they are in great shape.
> Looks like a new one. I don't think it's been abused is what I'm pointing out.
> Thanks,
> Jim
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Jim
> >
> > You said:
> >
> > "When I put the 599D twins in transceive mode and use the transmitter VFO as the RCVR the freq. is on the money. When I switch to the receiver as the transceive VFO it is off by 15.5 KCS."
> >
> >
> >
> > I take that to mean that when you use the R599's VFO to control both receive and transmit (transceive), "ALL" bands are off frequency by the same 15.5Khz.
> >
> > If that is correct, the RF UNIT heterodyne oscillator crystals are NOT the source of the problem.
> >
> > In order for the RF UNIT's individual bandswitch selected heterodyne oscillator crystals to be the source of the frequency error, each individual crystal would have to be off frequency by the exact same amount AND be off frequency in the same direction. That is highly unlikely to have occurred.
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> > 73's
> > Mike W5RKL
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> > --- In TS-520_820_530_830@yahoogroups.com, "Jim Stanicek" <jimstan@> wrote:
> > >
> > > I'm certainly going to try some other things before I pay 30 dollars or more for a crystal. I would hate to see a new crystal behaving EXACTLY like the old one !
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> > > I was also told to check for "other things" in the circuit. There are three 10K resistors and transistors in the circuit that switch in and out the various crystals. If one of those resistors has changed value, or the transistors are not fully switching on, that might change the frequency the crystal is oscillating at, too, I suspect.
> > >
> > > Well, I must check that out, and then see if there is any difference. I don't know

about the trimmers. The crystal drops out of oscillation if I move the trimmer too much, and that is a repeatable condition. More investigation needs to be done before purchasing a part !
> > >
> > > Thanks for your advice, and I will keep the group posted .
> > >
> > > 73, Jim AG3Y
> > >
> > >
> > > ----- Original Message -----
> > > From: Don Thomas
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Sent: Thursday, September 24, 2009 12:10 PM
> > > Subject: Re: [TS-520_820_530_830] Question 599D Twins
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> > >
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> > > Don T.
> > >
> > > --- On Thu, 9/24/09, Jim Stanicek <jimstan@> wrote:
> > >
> > > From: Jim Stanicek <jimstan@>
> > > Subject: Re: [TS-520_820_530_830] Question 599D Twins
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Date: Thursday, September 24, 2009, 10:15 AM
> > >
> > >
> > >
> > > Hearing your 25Khz marker EVERY 25Khz is how it is SUPPOSED to work ! You will get 4 marks for every 100 Khz, just like you get 1 mark for every 100Khz with the 100 marker! Perfectly normal.
> > >
> > > When you switch sidebands, you have to re-center your VFOs. Are you using the same sideband or mode with both the transmitter and the receiver? Does the background noise change in frequency characteristics when you switch between USB and LSB ?
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> > >
> > > I haven't even set up the transmitter, yet! But I will be as anxious to see any other responses about the frequency accuracy of these units as you are.
> > >
> > > Wish us both good luck and good answers!
> > >
> > > 73, Jim AG3Y

> > >
> > > ----- Original Message -----
> > > From: medical35
> > > To: TS-520_820_530_ 830@yahoogroups. com
> > > Sent: Wednesday, September 23, 2009 10:36 PM
> > > Subject: [TS-520_820_ 530_830] Question 599D Twins
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> > > WWV is on the money.
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22554. Re: [TS-520_820_530_830] Re: Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-25 23:00:20 UTC
From: Jim Stanicek
Topic: 22523 Message: 22554

The outer dial with the calibration marks on it, should be about a 16th of an inch away from the front panel. The knob should turn freely, (almost too freely) and you should be able to lightly push on the outer dial and turn it at the same time. If you can't the large knob with the indented areas between the ridges is mounted too far back on the tuning shaft.

It also helps if you do the operation with both hands. Hold onto the serrated knob and turn the larger dial plate with your other hand.

Check the mounting of that knob assembly on the shaft and see if the dimentions are right. Too far back and you probably won't be able to free the skirt. Too far forward, and the skirt with rub against the dial window!

Good luck, Jim AG3Y

----- Original Message -----
From: medical35
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, September 25, 2009 3:55 PM
Subject: [TS-520_820_530_830] Re: Question 599D Twins

Hello Kurt,
I have felt all along that this may be the problem. But I can't get it to do it.
I am pushing in as hard as I can on the front of the tuning dial but nothing is happening.
Can you elaborate on anything that might help me do this? Or give a detailed description?
I know it's pretty cut and dried like just push in the the front and the dial and turn it but I'm doing that and nothing is happening.
Thanks,
Jim

--- In TS-520_820_530_830@yahoogroups.com, "Kurt Cathcart" <kurt@...> wrote:
>
> If you push the dial of the receiver back towards the chassis it will allow you to turn the dial without changing the frequency of the VFO. This way you can match what the VFO is set to and what the dial reads.
>
>
>
> ----- Original Message -----
> From: medical35
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, September 24, 2009 7:02 PM
> Subject: [TS-520_820_530_830] Re: Question 599D Twins
>
>
>
> Hello,

> I can't help but think I've got something hooked up wrong or am doing something wrong.
> Because when I put them in transceive and use the RCVR vfo as the main rig it is off by about 25kc.
> When I do the opposite and use the transmitter vfo as the main rig the freq. is correct.
> I would just use it this way but the RIT doesn't work when I have it this way. It does the other way.
> The reason I think I'm doing something wrong is the fact that it's off 25kc.
> If it was anything else I would think it would be an odd number.
> I am using CW only and going by the center mark on the dial per the manual.
> I can use the rig and get great reports. I just have to look at the dial on 40 meters for example as 7000 being 7025 and 7050 being 7025 and so on.
> I have the original transceive cables joining the rigs together and the original antenna interconnect cable.
> The person who aligned it said he went by the service manual for the 599 S but that it is the same as the D model.
> He used WWV to align as per the service manual for the 599 s and he also went by something to do with 14 mhz.
> Is the S model the same as the D that I have as far as alignment?
> It is a one owner with original manuals and even the warranty card. (to late to send it in now)
> It has the original tubes but they are in great shape.
> Looks like a new one. I don't think it's been abused is what I'm pointing out.
> Thanks,
> Jim
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> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
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> > Jim
> >
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> > > From: Don Thomas
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Sent: Thursday, September 24, 2009 12:10 PM
> > > Subject: Re: [TS-520_820_530_830] Question 599D Twins
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> > > --- On Thu, 9/24/09, Jim Stanicek <jimstan@> wrote:
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> > > From: Jim Stanicek <jimstan@>
> > > Subject: Re: [TS-520_820_530_830] Question 599D Twins
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Date: Thursday, September 24, 2009, 10:15 AM
> > >

> > >
> > >
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> > > When you switch sidebands, you have to re-center your VFOs. Are you using the same sideband or mode with both the transmitter and the receiver? Does the background noise change in frequency characteristics when you switch between USB and LSB ?
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> > > Wish us both good luck and good answers!
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> > > 73, Jim AG3Y
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> > > From: medical35
> > > To: TS-520_820_530_ 830@yahoogroups. com
> > > Sent: Wednesday, September 23, 2009 10:36 PM
> > > Subject: [TS-520_820_ 530_830] Question 599D Twins
> > >
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22555. Re: Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-25 23:19:15 UTC
From: medical35
Topic: 22523 Message: 22555

Hello Jim,
I guess I misunderstood Kurt. I thought he was talking about being able to turn the part of the dial inside the radio that lights up.
I know how to turn the dial behind the main tuning knob that you're talking about.
My dial or the alignment is way off because I can hear cw signals way below 7000 kc on 40 or 3500 on 80.
But it's on right on the money when I put it in WWV. What the heck?
I would have to send it to someone who knows what they're doing but that would cost a lot I imagine.
I just paid one guy to align it. I guess he didn't know what he was doing.
Thanks,
Jim

--- In TS-520_820_530_830@yahoogroups.com, "Jim Stanicek" <jimstan@...> wrote:
>
> The outer dial with the calibration marks on it, should be about a 16th of an inch away from the front panel. The knob should turn freely, (almost too freely) and you should be able to lightly push on the outer dial and turn it at the same time. If you can't the large knob with the indented areas between the ridges is mounted too far back on the tuning shaft.
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> ----- Original Message -----
> From: medical35
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, September 25, 2009 3:55 PM
> Subject: [TS-520_820_530_830] Re: Question 599D Twins
>
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> Jim
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> > Sent: Thursday, September 24, 2009 7:02 PM
> > Subject: [TS-520_820_530_830] Re: Question 599D Twins
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> > Hello,
> > I can't help but think I've got something hooked up wrong or am doing something wrong.
> > Because when I put them in transceive and use the RCVR vfo as the main rig it is off by about 25kc.
> > When I do the opposite and use the transmitter vfo as the main rig the freq. is correct.
> > I would just use it this way but the RIT doesn't work when I have it this way. It does the other way.
> > The reason I think I'm doing something wrong is the fact that it's off 25kc.
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> > Jim
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > >
> > > Jim
> > >
> > > You said:
> > >

> > > "When I put the 599D twins in transceive mode and use the transmitter VFO as the RCVR the freq. is on the money. When I switch to the receiver as the transceive VFO it is off by 15.5 KCS."
> > >
> > >
> > >
> > > I take that to mean that when you use the R599's VFO to control both receive and transmit (transceive), "ALL" bands are off frequency by the same 15.5Khz.
> > >
> > > If that is correct, the RF UNIT heterodyne oscillator crystals are NOT the source of the problem.
> > >
> > > In order for the RF UNIT's individual bandswitch selected heterodyne oscillator crystals to be the source of the frequency error, each individual crystal would have to be off frequency by the exact same amount AND be off frequency in the same direction. That is highly unlikely to have occurred.
> > >
> > > 73's
> > > Mike W5RKL
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Jim Stanicek" <jimstan@> wrote:
> > > >
> > > > I'm certainly going to try some other things before I pay 30 dollars or more for a crystal. I would hate to see a new crystal behaving EXACTLY like the old one !
> > > >
> > > > I was also told to check for "other things" in the circuit. There are three 10K resistors and transistors in the circuit that switch in and out the various crystals. If one of those resistors has changed value, or the transistors are not fully switching on, that might change the frequency the crystal is oscillating at, too, I suspect.
> > > >
> > > > Well, I must check that out, and then see if there is any difference. I don't know about the trimmers. The crystal drops out of oscillation if I move the trimmer too much, and that is a repeatable condition. More investigation needs to be done before purchasing a part !
> > > >
> > > > Thanks for your advice, and I will keep the group posted .
> > > >
> > > > 73, Jim AG3Y
> > > >
> > > >
> > > > ----- Original Message -----
> > > > From: Don Thomas

> > > > To: TS-520_820_530_830@yahoogroups.com
> > > > Sent: Thursday, September 24, 2009 12:10 PM
> > > > Subject: Re: [TS-520_820_530_830] Question 599D Twins
> > > >
> > > >
> > > > Jim,
> > > > If the trimmer is a ceramic one try a little deoxit, turn it back and forth a few times and see if it clears up. May be just some oxidation changing the capacitance of the trimmer.
> > > >
> > > > Don T.
> > > >
> > > > --- On Thu, 9/24/09, Jim Stanicek <jimstan@> wrote:
> > > >
> > > > From: Jim Stanicek <jimstan@>
> > > > Subject: Re: [TS-520_820_530_830] Question 599D Twins
> > > > To: TS-520_820_530_830@...m
> > > > Date: Thursday, September 24, 2009, 10:15 AM
> > > >
> > > >
> > > >
> > > > Hearing your 25Khz marker EVERY 25Khz is how it is SUPPOSED to work ! You will get 4 marks for every 100 Khz, just like you get 1 mark for every 100Khz with the 100 marker! Perfectly normal.
> > > >
> > > > When you switch sidebands, you have to re-center your VFOs. Are you using the same sideband or mode with both the transmitter and the receiver? Does the background noise change in frequency characteristics when you switch between USB and LSB ?
> > > >
> > > > I just got my twins and am having some problems with the offset crystal. Looks like I will have to get a USB crystal for my receiver. That is what mine is doing, and I have determined that my USB crystal is about 600 hz off frequency at the closest setting of the trimmer (goes higher yet if I turn the trimmer !)
> > > >
> > > > I haven't even set up the transmitter, yet! But I will be as anxious to see any other responses about the frequency accuracy of these units as you are.
> > > >
> > > > Wish us both good luck and good answers!
> > > >
> > > > 73, Jim AG3Y
> > > >
> > > > ----- Original Message -----
> > > > From: medical35
> > > > To: TS-520_820_530_ 830@yahoogroups. com
> > > > Sent: Wednesday, September 23, 2009 10:36 PM
> > > > Subject: [TS-520_820_ 530_830] Question 599D Twins
> > > >
> > > > When I put the 599D twins in transceive mode and use the transmitter VFO as the RCVR the freq. is on the money.
> > > > When I switch to the receiver as the transceive VFO it is off by 15.5 KCS.

> > > > I'm using my Omni VII to check this.
> > > > I just had a guy align them. Am I doing something wrong? Or did he do something wrong? hi hi.
> > > > WWV is on the money.
> > > > My 25khz calibrator seems whacky also.
> > > > At the bottom of any band I can't hear it on for example 7000 or 7025 but I hear it at 7050 and every 25 kc there after.
> > > > Anybody got any ideas what's wrong?
> > > > Thanks.
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > > > [Non-text portions of this message have been removed]
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> > > >
> > > >
> > > >
> > > >
> > > > [Non-text portions of this message have been removed]
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> > [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
>

22556. BS-8 Pan Adapter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-26 02:16:48 UTC
From: Dick Merryman
Topic: 22556 Message: 22556

Anybody on this list wanting to sell a BS-8 Pan Adapter??

-Dick-
N3XRU

[Non-text portions of this message have been removed]

22557. Re: TS-830S relay

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-26 03:20:16 UTC
From: W8SFC
Topic: 22551 Message: 22557

--- In TS-520_820_530_830@yahoogroups.com, n6wk@... wrote:
>
> Hi Sid,
> if it is the T/R relay, it is plugged into a socket under the Finals
> Area inside a small metal enclosure.
>
> 73,
> Gordon
>
> .
>
> W8SFC wrote:
> >
> >
> > I have the replacement relay from K4EAA but is the relay on the rig a
> > "solder in" or is it in a socket?
> >
> > 73'
> > Sid W8SFC
> >
> >
>
Hi, Gordon
Nope it's the other one.
73,
Sid W8SFC

22558. Re: [TS-520_820_530_830] Re: TS-830S relay

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-26 03:36:00 UTC
From: n6wk@n6wk.com
Topic: 22551 Message: 22558

Well then,
It is soldered in !

73,
Gordon

W8SFC wrote:
>
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, n6wk@... wrote:
> >
> > Hi Sid,
> > if it is the T/R relay, it is plugged into a socket under the Finals
> > Area inside a small metal enclosure.
> >
> > 73,
> > Gordon
> >
> > .
> >
> > W8SFC wrote:
> > >
> > >
> > > I have the replacement relay from K4EAA but is the relay on the rig a
> > > "solder in" or is it in a socket?
> > >
> > > 73'
> > > Sid W8SFC
> > >
> > >
> >
> Hi, Gordon
> Nope it's the other one.
> 73,
> Sid W8SFC
>
>

22559. Re: Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-26 13:24:38 UTC
From: w5rkl
Topic: 22523 Message: 22559

Jim,

Your initial post stated:

"When I put the 599D twins in transceive mode and use the transmitter VFO as the RCVR the freq. is on the money. When I switch to the receiver as the transceive VFO it is off by 15.5 KCS. I'm using my Omni VII to check this."

Yet, now you saying:

"....When I use set JUST the xmitter by itself wihout the rcvr hooked up in any way and set it to say 7025 I hear it on my Omni VII on 7025. No problem. All is well. And it will do the same thing hooked up in transceive using the xmitter vfo in control. BUT it is off about 25 kc when I go to tranceive and use the RCVR as the control. So yes it's not tracking correctly. But it will track but it will be off about 25 kc."

Which frequency tracking error is correct, "15.5Khz" or "25Khz"?

Since you do not have a frequency counter you can use the Omni VII to "listen" for the R-599 VFO signal.

Performing the following simple test will NOT, in any way, damage the R-599! Just be careful when removing the R-599 VFO signal cable so you do not break the cable loose from the RCA plug. Do NOT remove any other cables plugged into the rear of the R-599 VFO. Remove ONLY the small coax cable with the RCA plug attached that is plugged into the rear of the R-599 VFO!

Unplug the R-599 VFO's signal cable, the one with the RCA plug on the end.

Using a simple stereo interconnecting cable (RCA plug on both end), plug one end of the stereo cable into the R-599's VFO RCA socket. Lay the other end of the stereo cable next to the Omni VII's antenna connector (SO-239).

Tune the R-599 dial to 00. It does NOT matter what band switch setting or MODE switch setting the R-599 is set to.

Set the R-599 dial to the bottom of the dial, "00". The "00" should be centered over the "middle" dial marker, not the left or right dial marker. Do NOT change this setting!

Turn the R-599 ON.

Remove the antenna coax feed line from the Omni VII and set the Omni VII to any mode. Do NOTt key the Omni VII at any time!

Turn the Omni VII ON.

Tune the Omni VII to "5.500Mhz".

Do you hear a beat note in the Omni VII? If not, tune the Omni VII dial up or down from 5.500Mhz until you hear the R-599's VFO signal.

Once you hear the R-599's VFO signal, tune the Omni VII dial for a "zero beat" and note the frequency displayed on the Omni VII's digital display. This will give you the "approximate frequency error", if any, of the R-599 VFO.

Once you have noted the frequency error, remove the stereo cable from the rear of the R-599 VFO and plug the small coax cable back into the R-599 VFO.

Let us know what the frequency error, if any, actually is.

73's
Mike W5RKL

22560. 820S Paint

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-26 17:10:50 UTC
From: ve3gn
Topic: 22560 Message: 22560

would anyone know the paint colour or code for thr the trim ring of the 820S.
Thank you ,,Stan VE3GN

22561. Re: Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-26 20:20:43 UTC
From: medical35
Topic: 22523 Message: 22561

Hello Mike,
There is no plug of any type on the back of my VFO.
There are four posts with wires soldered to them on the right side of the VFO. That's all.
But none of them "unplug". They would need to be unsoldered and would be hard to get to.
I won't go into the 15.5kc versus 25kc thing again as it is to confusing to the group as I'm not able to explain it well.
Suffice it to say the RCVR is way off freq.
I also can hear cw signals below 7000 on the dial. As far down as the dial goes past 7000 which is a good ways.
I would send it to someone to be fixed but don't know anyone who would do it without having way to much in it.
With shipping and all I've already got way to much in it.
I've sent several emails and left several voice messages to K4EAA over the past year about a TS 520 I want fixed but he doesn't answer either.
I don't know of anyone else who "specializes" in these rigs.
If someone does please let me know.
73,
Jim

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Jim,
>
> Your initial post stated:
>
>
> "When I put the 599D twins in transceive mode and use the transmitter VFO as the RCVR the freq. is on the money. When I switch to the receiver as the transceive VFO it is off by 15.5 KCS. I'm using my Omni VII to check this."
>
>
>
> Yet, now you saying:
>
>
>
> "....When I use set JUST the xmitter by itself wihout the rcvr hooked up in any way and set it to say 7025 I hear it on my Omni VII on 7025. No problem. All is well. And it will do the same thing hooked up in transceive using the xmitter vfo in control. BUT it is off about 25 kc when I go to tranceive and use the RCVR as the control. So yes it's not tracking correctly. But it will track but it will be off about 25 kc."
>
>
> Which frequency tracking error is correct, "15.5Khz" or "25Khz"?
>

> Since you do not have a frequency counter you can use the Omni VII to "listen" for the R-599 VFO signal.
>
> Performing the following simple test will NOT, in any way, damage the R-599! Just be careful when removing the R-599 VFO signal cable so you do not break the cable loose from the RCA plug. Do NOT remove any other cables plugged into the rear of the R-599 VFO. Remove ONLY the small coax cable with the RCA plug attached that is plugged into the rear of the R-599 VFO!
>
> Unplug the R-599 VFO's signal cable, the one with the RCA plug on the end.
>
> Using a simple stereo interconnecting cable (RCA plug on both end), plug one end of the stereo cable into the R-599's VFO RCA socket. Lay the other end of the stereo cable next to the Omni VII's antenna connector (SO-239).
>
> Tune the R-599 dial to 00. It does NOT matter what band switch setting or MODE switch setting the R-599 is set to.
>
> Set the R-599 dial to the bottom of the dial, "00". The "00" should be centered over the "middle" dial marker, not the left or right dial marker. Do NOT change this setting!
>
> Turn the R-599 ON.
>
> Remove the antenna coax feed line from the Omni VII and set the Omni VII to any mode. Do NOTt key the Omni VII at any time!
>
> Turn the Omni VII ON.
>
> Tune the Omni VII to "5.500Mhz".
>
> Do you hear a beat note in the Omni VII? If not, tune the Omni VII dial up or down from 5.500Mhz until you hear the R-599's VFO signal.
>
> Once you hear the R-599's VFO signal, tune the Omni VII dial for a "zero beat" and note the frequency displayed on the Omni VII's digital display. This will give you the "approximate frequency error", if any, of the R-599 VFO.
>
> Once you have noted the frequency error, remove the stereo cable from the rear of the R-599 VFO and plug the small coax cable back into the R-599 VFO.
>
> Let us know what the frequency error, if any, actually is.
>
>
> 73's
> Mike W5RKL
>

22562. Re: [TS-520_820_530_830] Re: Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-26 22:17:19 UTC
From: Jim Stanicek
Topic: 22523 Message: 22562

You could just attach a piece of wire to the proper post and the other receiver would probably pick up the signal just fine.

I did that when I was searching for the offset crystal frequencies, and got plenty of signal to be picked up on a separate receiver !

Where do you live? Man I wish we could get together, but I bet you are no where close to Hagerstown, MD !

Good luck, and let us know if you are able to hear that VFO . I bet the knob is mounted incorrectly on the shaft for some strange reason.

73, and good luck, Jim

----- Original Message -----
From: medical35
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, September 26, 2009 4:20 PM
Subject: [TS-520_820_530_830] Re: Question 599D Twins

Hello Mike,
There is no plug of any type on the back of my VFO.
There are four posts with wires soldered to them on the right side of the VFO. That's all.
But none of them "unplug". They would need to be unsoldered and would be hard to get to.
I won't go into the 15.5kc versus 25kc thing again as it is to confusing to the group as I'm not able to explain it well.
Suffice it to say the RCVR is way off freq.
I also can hear cw signals below 7000 on the dial. As far down as the dial goes past 7000 which is a good ways.
I would send it to someone to be fixed but don't know anyone who would do it without having way to much in it.
With shipping and all I've already got way to much in it.
I've sent several emails and left several voice messages to K4EAA over the past year about a TS 520 I want fixed but he doesn't answer either.
I don't know of anyone else who "specializes" in these rigs.
If someone does please let me know.
73,
Jim

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Jim,
>
> Your initial post stated:
>
>
> "When I put the 599D twins in transceive mode and use the transmitter VFO as the RCVR the

freq. is on the money. When I switch to the receiver as the transceive VFO it is off by 15.5 KCS. I'm using my Omni VII to check this."
>
>
>
> Yet, now you saying:
>
>
>
> "....When I use set JUST the xmitter by itself wihout the rcvr hooked up in any way and set it to say 7025 I hear it on my Omni VII on 7025. No problem. All is well. And it will do the same thing hooked up in transceive using the xmitter vfo in control. BUT it is off about 25 kc when I go to tranceive and use the RCVR as the control. So yes it's not tracking correctly. But it will track but it will be off about 25 kc."
>
>
> Which frequency tracking error is correct, "15.5Khz" or "25Khz"?
>
> Since you do not have a frequency counter you can use the Omni VII to "listen" for the R-599 VFO signal.
>
> Performing the following simple test will NOT, in any way, damage the R-599! Just be careful when removing the R-599 VFO signal cable so you do not break the cable loose from the RCA plug. Do NOT remove any other cables plugged into the rear of the R-599 VFO. Remove ONLY the small coax cable with the RCA plug attached that is plugged into the rear of the R-599 VFO!
>
> Unplug the R-599 VFO's signal cable, the one with the RCA plug on the end.
>
> Using a simple stereo interconnecting cable (RCA plug on both end), plug one end of the stereo cable into the R-599's VFO RCA socket. Lay the other end of the stereo cable next to the Omni VII's antenna connector (SO-239).
>
> Tune the R-599 dial to 00. It does NOT matter what band switch setting or MODE switch setting the R-599 is set to.
>
> Set the R-599 dial to the bottom of the dial, "00". The "00" should be centered over the "middle" dial marker, not the left or right dial marker. Do NOT change this setting!
>
> Turn the R-599 ON.
>
> Remove the antenna coax feed line from the Omni VII and set the Omni VII to any mode. Do NOTt key the Omni VII at any time!
>
> Turn the Omni VII ON.
>
> Tune the Omni VII to "5.500Mhz".
>
> Do you hear a beat note in the Omni VII? If not, tune the Omni VII dial up or down from 5.500Mhz until you hear the R-599's VFO signal.
>

> Once you hear the R-599's VFO signal, tune the Omni VII dial for a "zero beat" and note the frequency displayed on the Omni VII's digital display. This will give you the "approximate frequency error", if any, of the R-599 VFO.
>
> Once you have noted the frequency error, remove the stereo cable from the rear of the R-599 VFO and plug the small coax cable back into the R-599 VFO.
>
> Let us know what the frequency error, if any, actually is.
>
>
> 73's
> Mike W5RKL
>

[Non-text portions of this message have been removed]

22563. Re: Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-26 22:22:00 UTC
From: w5rkl
Topic: 22523 Message: 22563

Afternoon Jim,

I guess Kenwood had the VFO connections; power, RIT, VFO signal cable. and ground, all hardwired. The manual does not show a good picture of the VFO connections. Having worked on Kenwood hybrids, I have assumed the R599 VFO had a plug in VFO signal cable. That's what I get for assuming...:)

Unfortunately I do not know of anyone else that works on Kenwood other than the ones you have already mentioned.

If you could, look closely at the dial assembly, paying close attention to how the dial itself is attached to the tuning shaft.

How far can you tune the VFO Counter Clockwise? Can you tune the VFO until you reach the mechanical stops? Don't force the dial beyond the stops!

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "medical35" <medical35@...> wrote:
>
> Hello Mike,
> There is no plug of any type on the back of my VFO.
> There are four posts with wires soldered to them on the right side of the VFO. That's all.
> But none of them "unplug". They would need to be unsoldered and would be hard to get to.
> I won't go into the 15.5kc versus 25kc thing again as it is to confusing to the group as I'm not able to explain it well.
> Suffice it to say the RCVR is way off freq.
> I also can hear cw signals below 7000 on the dial. As far down as the dial goes past 7000 which is a good ways.
> I would send it to someone to be fixed but don't know anyone who would do it without having way to much in it.
> With shipping and all I've already got way to much in it.
> I've sent several emails and left several voice messages to K4EAA over the past year about a TS 520 I want fixed but he doesn't answer either.
> I don't know of anyone else who "specializes" in these rigs.
> If someone does please let me know.
> 73,
> Jim

22564. Re: [TS-520_820_530_830] Re: Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-26 22:27:05 UTC
From: Charlie , W5COV
Topic: 22523 Message: 22564

Jim it would be helpful to know where you live , somebody on here might be close to you . I ran the twins as a second rig for years and had to do very little to keep them in top operating condition. I wish at times that I hadn't got rid of them .

Charlie , W5COV
Northeast Oklahoma

[Non-text portions of this message have been removed]

22565. Re: Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-26 23:21:40 UTC
From: medical35
Topic: 22523 Message: 22565

Hello Mike,
Turning the VFO clockwise it will go well beyond the last number on the dial which on the RCVR that number is 600.
The dial will go about an inch beyond the last number on the dial which is 600.
Going CCW it will go beyond the first number on the dial which is 0 of course.
It goes about 3/16ths past zero.
If the VFO zero's with WWV when I put it in the WWV position on the bandswitch, which it does, wouldn't that be a sign that the alignment is fine and the lighted numbers on the dial are off?
So couldn't I just somehow move the dial inside the rig, not the one behind the main tuning knob, and get it on freq?
So far I've not been able to figure out how to move that dial or even if I should.
The guy who aligned it said he did it per the manual and the service manual for the 599S because Kenwood didn't make a service manual for the D model as they said they are the same.
At least that's what several sources on the internet say.
73,
Jim

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Afternoon Jim,
>
> I guess Kenwood had the VFO connections; power, RIT, VFO signal cable. and ground, all hardwired. The manual does not show a good picture of the VFO connections. Having worked on Kenwood hybrids, I have assumed the R599 VFO had a plug in VFO signal cable. That's what I get for assuming...:)
>
> Unfortunately I do not know of anyone else that works on Kenwood other than the ones you have already mentioned.
>
> If you could, look closely at the dial assembly, paying close attention to how the dial itself is attached to the tuning shaft.
>
> How far can you tune the VFO Counter Clockwise? Can you tune the VFO until you reach the mechanical stops? Don't force the dial beyond the stops!
>
> 73's
> Mike W5RKL
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "medical35" <medical35@> wrote:
> >
> > Hello Mike,

> > There is no plug of any type on the back of my VFO.
> > There are four posts with wires soldered to them on the right side of the VFO. That's all.
> > But none of them "unplug". They would need to be unsoldered and would be hard to get to.
> > I won't go into the 15.5kc versus 25kc thing again as it is to confusing to the group as I'm not able to explain it well.
> > Suffice it to say the RCVR is way off freq.
> > I also can hear cw signals below 7000 on the dial. As far down as the dial goes past 7000 which is a good ways.
> > I would send it to someone to be fixed but don't know anyone who would do it without having way to much in it.
> > With shipping and all I've already got way to much in it.
> > I've sent several emails and left several voice messages to K4EAA over the past year about a TS 520 I want fixed but he doesn't answer either.
> > I don't know of anyone else who "specializes" in these rigs.
> > If someone does please let me know.
> > 73,
> > Jim
>

22566. Re: Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-26 23:29:19 UTC
From: medical35
Topic: 22523 Message: 22566

Hello Charlie,
I live a little south of Nashville, Tn.
I agree with you Charlie. There are signs that this rig has been very well taken care of. Even still has the warranty card and original manuals and looks great. One owner.
I don't think there is anything major wrong with it. I use it now on CW only as that's all I do.
But I just have to look at the dial on the RCVR as being about 25kcs off. hi hi.
All reports are no chirp, great cw tone and no drifting.
I know there is no one in my area that I would trust to work on this.
I'm already out a lot of money from a guy here who supposedly knew what he was doing.
73,
Jim

--- In TS-520_820_530_830@yahoogroups.com, "Charlie , W5COV" <cvest@...> wrote:
>
> Jim it would be helpful to know where you live , somebody on here might be close to you . I ran the twins as a second rig for years and had to do very little to keep them in top operating condition. I wish at times that I hadn't got rid of them .
>
> Charlie , W5COV
> Northeast Oklahoma
>
> [Non-text portions of this message have been removed]
>

22567. Re: Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-26 23:44:56 UTC
From: n6wk_skcc3
Topic: 22523 Message: 22567

Hi Jim,
So if I understand correctly, if you look on page 11 of this manual,
http://www.n6wk.com/kenwood/Kenwood%20R-599D%20Operator%20Manual-2.pdf
It is Item number 15 that is off by 25kc?? Inside the little window.. Correct?
Please verify this for me.
Also, I am surprised Ken K4EAA didn't get back to you. Ken and I share Emails quite often.
He is a very busy man though as I have also become.

Thanks,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "medical35" <medical35@...> wrote:
>
> Hello Charlie,
> I live a little south of Nashville, Tn.
> I agree with you Charlie. There are signs that this rig has been very well taken care of. Even still has the warranty card and original manuals and looks great. One owner.
> I don't think there is anything major wrong with it. I use it now on CW only as that's all I do.
> But I just have to look at the dial on the RCVR as being about 25kcs off. hi hi.
> All reports are no chirp, great cw tone and no drifting.
> I know there is no one in my area that I would trust to work on this.
> I'm already out a lot of money from a guy here who supposedly knew what he was doing.
> 73,
> Jim
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Charlie , W5COV" <cvest@> wrote:
> >
> > Jim it would be helpful to know where you live , somebody on here might be close to you . I ran the twins as a second rig for years and had to do very little to keep them in top operating condition. I wish at times that I hadn't got rid of them .
> >
> > Charlie , W5COV
> > Northeast Oklahoma
> >
> > [Non-text portions of this message have been removed]
> >
>

22568. Re: Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-27 00:21:06 UTC
From: medical35
Topic: 22523 Message: 22568

Hello Gordon,
Yes that is the one. Page 11 and item 15. It is not off by 25kc exactly but between 15.5kc to 25kc.
Thanks,
Jim

--- In TS-520_820_530_830@yahoogroups.com, "n6wk_skcc3" <n6wk@...> wrote:
>
> Hi Jim,
> So if I understand correctly, if you look on page 11 of this manual,
> http://www.n6wk.com/kenwood/Kenwood%20R-599D%20Operator%20Manual-2.pdf
> It is Item number 15 that is off by 25kc?? Inside the little window.. Correct?
> Please verify this for me.
> Also, I am surprised Ken K4EAA didn't get back to you. Ken and I share Emails quite often. He is a very busy man though as I have also become.
>
> Thanks,
> Gordon
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "medical35" <medical35@> wrote:
> >
> > Hello Charlie,
> > I live a little south of Nashville, Tn.
> > I agree with you Charlie. There are signs that this rig has been very well taken care of. Even still has the warranty card and original manuals and looks great. One owner.
> > I don't think there is anything major wrong with it. I use it now on CW only as that's all I do.
> > But I just have to look at the dial on the RCVR as being about 25kcs off. hi hi.
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> > I know there is no one in my area that I would trust to work on this.
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> > 73,
> > Jim
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Charlie , W5COV" <cvest@> wrote:
> > >
> > > Jim it would be helpful to know where you live , somebody on here might be close to you . I ran the twins as a second rig for years and had to do very little to keep them in top operating condition. I wish at times that I hadn't got rid of them .
> > >
> > > Charlie , W5COV
> > > Northeast Oklahoma

> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
>

22569. Re: [TS-520_820_530_830] Re: Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-27 00:48:35 UTC
From: n6wk@n6wk.com
Topic: 22523 Message: 22569

Jim,
Does that offset seem to be uniform across the complete spectrum of
the VFO?
If so, I'm thinking that the Dial has actually slipped on the main
shaft. If you remove the Knob, can you gain access to the main dial Plate?
I haven't worked on any Twins in many many years, so I have forgotten
the setup of the Dials

Gordon

medical35 wrote:
>
>
> Hello Gordon,
> Yes that is the one. Page 11 and item 15. It is not off by 25kc
> exactly but between 15.5kc to 25kc.
> Thanks,
> Jim
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "n6wk_skcc3" <n6wk@...>
> wrote:
> >
> > Hi Jim,
> > So if I understand correctly, if you look on page 11 of this manual,
> >
> http://www.n6wk.com/kenwood/Kenwood%20R-599D%20Operator%20Manual-2.pdf
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> > It is Item number 15 that is off by 25kc?? Inside the little
> window.. Correct?
> > Please verify this for me.
> > Also, I am surprised Ken K4EAA didn't get back to you. Ken and I
> share Emails quite often. He is a very busy man though as I have also
> become.
> >
> > Thanks,
> > Gordon
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "medical35"
> <medical35@> wrote:
> > >
> > > Hello Charlie,

> > > I live a little south of Nashville, Tn.
> > > I agree with you Charlie. There are signs that this rig has been
> very well taken care of. Even still has the warranty card and original
> manuals and looks great. One owner.
> > > I don't think there is anything major wrong with it. I use it now
> on CW only as that's all I do.
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> 25kcs off. hi hi.
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> > > I know there is no one in my area that I would trust to work on this.
> > > I'm already out a lot of money from a guy here who supposedly knew
> what he was doing.
> > > 73,
> > > Jim
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Charlie , W5COV"
> <cvest@> wrote:
> > > >
> > > > Jim it would be helpful to know where you live , somebody on
> here might be close to you . I ran the twins as a second rig for years
> and had to do very little to keep them in top operating condition. I
> wish at times that I hadn't got rid of them .
> > > >
> > > > Charlie , W5COV
> > > > Northeast Oklahoma
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > >
> > >
>
>

22570. Re: [TS-520_820_530_830] Re: Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-27 01:10:17 UTC
From: Jim Stanicek
Topic: 22523 Message: 22570

For reference sake, my VFO dial goes almost 45Khz lower than the zero mark at the lowest frequency, and goes 15Khz above the highest mark at the highest frequency. I am referring, of course, from mechanical stop to mechanical stop here.

The tracking isn't perfect, but I can receive the entire band in any case, and if I use the 25Khz marker, it is certainly within 100 hz or so from marker to marker.

The other Jim, AG3Y

----- Original Message -----
From: n6wk@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, September 26, 2009 8:48 PM
Subject: Re: [TS-520_820_530_830] Re: Question 599D Twins

Jim,
Does that offset seem to be uniform across the complete spectrum of
the VFO?
If so, I'm thinking that the Dial has actually slipped on the main
shaft. If you remove the Knob, can you gain access to the main dial Plate?
I haven't worked on any Twins in many many years, so I have forgotten
the setup of the Dials

Gordon

medical35 wrote:
>
>
> Hello Gordon,
> Yes that is the one. Page 11 and item 15. It is not off by 25kc
> exactly but between 15.5kc to 25kc.
> Thanks,
> Jim
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "n6wk_skcc3" <n6wk@...>
> wrote:
> >
> > Hi Jim,
> > So if I understand correctly, if you look on page 11 of this manual,
> >
> http://www.n6wk.com/kenwood/Kenwood%20R-599D%20Operator%20Manual-2.pdf
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> > Also, I am surprised Ken K4EAA didn't get back to you. Ken and I
> share Emails quite often. He is a very busy man though as I have also
> become.
> >
> > Thanks,
> > Gordon
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "medical35"
> <medical35@> wrote:
> > >
> > > Hello Charlie,
> > > I live a little south of Nashville, Tn.
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> > > I know there is no one in my area that I would trust to work on this.
> > > I'm already out a lot of money from a guy here who supposedly knew
> what he was doing.
> > > 73,
> > > Jim
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Charlie , W5COV"
> <cvest@> wrote:
> > > >
> > > > Jim it would be helpful to know where you live , somebody on
> here might be close to you . I ran the twins as a second rig for years
> and had to do very little to keep them in top operating condition. I
> wish at times that I hadn't got rid of them .
> > > >
> > > > Charlie , W5COV
> > > > Northeast Oklahoma
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > >
> > >
> >
>

[Non-text portions of this message have been removed]

22571. Re: Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-27 01:21:16 UTC
From: medical35
Topic: 22523 Message: 22571

Hello Gordon,
Right now I don't have a screw driver that will fit down in the main dial hole.
I could pick one up tomorrow.
What about coming at it from the other side by taking the cabinet off?
Or should I even do this? Do think this is the problem?
73,
Jim

--- In TS-520_820_530_830@yahoogroups.com, n6wk@... wrote:
>
> Jim,
> Does that offset seem to be uniform across the complete spectrum of
> the VFO?
> If so, I'm thinking that the Dial has actually slipped on the main
> shaft. If you remove the Knob, can you gain access to the main dial Plate?
> I haven't worked on any Twins in many many years, so I have forgotten
> the setup of the Dials
>
> Gordon
>
>
>
>
> medical35 wrote:
> >
> >
> > Hello Gordon,
> > Yes that is the one. Page 11 and item 15. It is not off by 25kc
> > exactly but between 15.5kc to 25kc.
> > Thanks,
> > Jim
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "n6wk_skcc3" <n6wk@>
> > wrote:
> > >
> > > Hi Jim,
> > > So if I understand correctly, if you look on page 11 of this manual,
> > >
> > > http://www.n6wk.com/kenwood/Kenwood%20R-599D%20Operator%20Manual-2.pdf
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> > > It is Item number 15 that is off by 25kc?? Inside the little
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> > > Please verify this for me.
> > > Also, I am surprised Ken K4EAA didn't get back to you. Ken and I

> > share Emails quite often. He is a very busy man though as I have also
> > become.
> > >
> > > Thanks,
> > > Gordon
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "medical35"
> > <medical35@> wrote:
> > > >
> > > > Hello Charlie,
> > > > I live a little south of Nashville, Tn.
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> > > > I'm already out a lot of money from a guy here who supposedly knew
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> > > > 73,
> > > > Jim
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> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "Charlie , W5COV"
> > <cvest@> wrote:
> > > > >
> > > > > Jim it would be helpful to know where you live , somebody on
> > here might be close to you . I ran the twins as a second rig for years
> > and had to do very little to keep them in top operating condition. I
> > wish at times that I hadn't got rid of them .
> > > > >
> > > > > Charlie , W5COV
> > > > > Northeast Oklahoma
> > > > >
> > > > > [Non-text portions of this message have been removed]
> > > > >
> > > >
> > > >
> > >
> > >
> >

22572. Re: Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-27 01:23:20 UTC
From: medical35
Topic: 22523 Message: 22572

Gordon,
I forgot to mention that yes it is uniform across the VFO spectrum.
73,
Jim

--- In TS-520_820_530_830@yahoogroups.com, n6wk@... wrote:
>
> Jim,
> Does that offset seem to be uniform across the complete spectrum of
> the VFO?
> If so, I'm thinking that the Dial has actually slipped on the main
> shaft. If you remove the Knob, can you gain access to the main dial Plate?
> I haven't worked on any Twins in many many years, so I have forgotten
> the setup of the Dials
>
> Gordon
>
>
>
>
> medical35 wrote:
> >
> >
> > Hello Gordon,
> > Yes that is the one. Page 11 and item 15. It is not off by 25kc
> > exactly but between 15.5kc to 25kc.
> > Thanks,
> > Jim
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "n6wk_skcc3" <n6wk@>
> > wrote:
> > >
> > > Hi Jim,
> > > So if I understand correctly, if you look on page 11 of this manual,
> > >
> > > http://www.n6wk.com/kenwood/Kenwood%20R-599D%20Operator%20Manual-2.pdf
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> > > Also, I am surprised Ken K4EAA didn't get back to you. Ken and I
> > share Emails quite often. He is a very busy man though as I have also
> > become.
> > >

> > > Thanks,
> > > Gordon
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "medical35"
> > <medical35@> wrote:
> > > >
> > > > Hello Charlie,
> > > > I live a little south of Nashville, Tn.
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> > > > I know there is no one in my area that I would trust to work on this.
> > > > I'm already out a lot of money from a guy here who supposedly knew
> > what he was doing.
> > > > 73,
> > > > Jim
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "Charlie , W5COV"
> > <cvest@> wrote:
> > > > > >
> > > > > Jim it would be helpful to know where you live , somebody on
> > here might be close to you . I ran the twins as a second rig for years
> > and had to do very little to keep them in top operating condition. I
> > wish at times that I hadn't got rid of them .
> > > > > >
> > > > > > Charlie , W5COV
> > > > > > Northeast Oklahoma
> > > > > >
> > > > > > [Non-text portions of this message have been removed]
> > > > > >
> > > > >
> > > >
> > >
> > >
>

22573. Re: Extra filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-27 12:08:17 UTC
From: wrench101
Topic: 22448 Message: 22573

I have found a bad trace on the board and the 820 now sounds beautiful like it should. The way the extra filter was wired made it sound as if ssb was only 250hz wide. Now ssb and cw sound perfect. Now I need to take the display apart and repair it. I've heard that it is famous for poor contact at connectors and having poor solder joints. Anywho, thank you all for your help. Greatly appreciated! 73 de AI4NV

22574. Re: [TS-520_820_530_830] Re: Question 599D Twins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-27 17:36:49 UTC
From: Dave and Loraine
Topic: 22523 Message: 22574

Aren't those felt washers impregnated with chemicals to reduce corrosion of lead battery terminals? If so, I wouldn't use them.
Dave f4eyk

22575. DG-1 For Sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-27 18:19:27 UTC
From: jsloss
Topic: 22575 Message: 22575

Display & Counter Module for sale. Display is perfect - module needs help. Pls reply off list. Joe k7mks

[Non-text portions of this message have been removed]

22576. Re: [TS-520_820_530_830] Re: Thanks

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-27 21:14:55 UTC
From: Shauney@btinternet
Topic: 70 Message: 22576

Hi Mike
Thanks for the reply,tried to adjust vr1 vr2 no change when turning them,did every thing as you told me to,its no big issue because the radios working fine otherwise,any idea mike.

Regards Shaun G0lmf

--- On Wed, 23/9/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: Thanks
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, 23 September, 2009, 9:26 PM

Hello Shaun,

Glad to hear your 830 is working great. Always good to hear these responses.

I must say I am not aware of a modification for the receiver's RF amplifier in the 520SE. It may be a subsitute for the Japanese transistor. Some of the original transistors used by Kenwood are very difficult to find if one can find them at all. Substitutions are common which may not be the same transistor as the original.

You can use the Marker to set the S meter. I use 80 meters and connect a dummy load to the antenna SO-239 on the rear of the transceiver. The dummy load provides a 50 ohm load to the transceiver.

Set the 520SE on 80 meters, tune to 3.700, and then adjust the S meter zero pot for a zero no-signal meter indication. Once that is accomplished, turn the Marker ON and tune the VFO for maximum S meter indication. Adjust the DRIVE control, again for maximum S meter indication. If the S meter is below S9, adjust the S meter gain pot for an S9 reading.

I have used this method for quite some time now and it works well for me. I compare the adjustments with my Yaesu FT-757 (receive preamp turned OFF on the 757) and it's quite close.

73's
Mike W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, "shaun3416" <shaun.townsend@ ...> wrote:
>
> Hi it was sometime last year i had a problem with my ts830 ip reading over the 225ma when tuned.Its was indeed the four cathode bias resistors,thanks to w5rkl,ke5put, n6wk and every one else who gave input on the matter.Well now ive got a really nice 830s 100 watts on every band even 10 metres.really pleased.
> My next question for the group is about a ts520se,only owned it for a week or so and found the s-metre sensitivity not so good.Ive read the manaul and looks like i need a signal generator its a couple of s points down and only a s7 with the cal-25.Also its had a 6,6 mosfet fitted in q3 rf amp,could any body tell me about this mod.

>
> Regards Shaun
>

[Non-text portions of this message have been removed]

22577. Astatic D104 microphone for TS-830s or TS-530s radios

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-28 02:00:23 UTC
From: Noodle10536
Topic: 22577 Message: 22577

I have scanned many ofthe past postings on this subject and was hoping that some of the more experienced guys could share someadvice. I have two basic types of D104 mics. One type has a UG-8 base and the other has a TUG-8 base. The TUG8 has the preamp and te UG-8 does not. Which of these two microhones would be the best choice assuming they are wired correctly? Is there a benefit with these over the MC-50? I have two of those as well and one works much better than the other. Thanks for any help or suggestions. 73 Peter.

22578. Re: Astatic D104 microphone for TS-830s or TS-530s radios

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-28 02:46:04 UTC
From: therealgeno1966
Topic: 22577 Message: 22578

--- In TS-520_820_530_830@yahoogroups.com, "Noodle10536" <pureenduro@...> wrote:
>
> I have scanned many ofthe past postings on this subject and was hoping that some of the more experienced guys could share someadvice. I have two basic types of D104 mics. One type has a UG-8 base and the other has a TUG-8 base. The TUG8 has the preamp and te UG-8 does not. Which of these two microhones would be the best choice assuming they are wired correctly? Is there a benefit with these over the MC-50? I have two of those as well and one works much better than the other. Thanks for any help or suggestions. 73 Peter.
>
I have been on HF for over 33 yrs. I have owned several models of Kenwood radios starting with the 520, 820, 830. I have tried both the amplified and non amplified D-104 on most of them. Nothing beats the MC-50 for audio quality and with the speech processor delivers the 'punch' with good clean audio......that's my story and I'm stickin' to it.
Gene, K9UOK
\

22579. Re: [TS-520_820_530_830] Re: Astatic D104 microphone for TS-830s or TS-530s radios

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-28 04:17:29 UTC
From: martin
Topic: 22577 Message: 22579

Hi Peter. I have ti agree with Gene on this one. Its hard to beat
the sound of the MC-50, and the D-104 mics don't come close. If one
of your MC-50 mics sounds better than the other, try reversing the
plug on the mic. The MC-50 has two impedance settings, and they are
switched by which the plug is plugged in. If that is not the problem,
you could have a bad connection somewhere, a bad mic cord, or the mic
element may be damaged (though that is kinda rare).

TTYL

therealgeno1966 wrote:
> --- In TS-520_820_530_830@yahoogroups.com, "Noodle10536"
> <pureenduro@...> wrote:
>> I have scanned many ofthe past postings on this subject and was
>> hoping that some of the more experienced guys could share
>> someadvice. I have two basic types of D104 mics. One type has a
>> UG-8 base and the other has a TUG-8 base. The TUG8 has the
>> preamp and te UG-8 does not. Which of these two microhones would
>> be the best choice assuming they are wired correctly? Is there a
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>> and one works much better than the other. Thanks for any help or
>> suggestions. 73 Peter.
>>
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> Kenwood radios starting with the 520, 820, 830. I have tried both
> the amplified and non amplified D-104 on most of them. Nothing
> beats the MC-50 for audio quality and with the speech processor
> delivers the 'punch' with good clean audio......that's my story and
> I'm stickin' to it. Gene, K9UOK \
>
>
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

22580. Re: Thanks

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-28 10:34:38 UTC
From: w5rkl
Topic: 70 Message: 22580

--- In TS-520_820_530_830@yahoogroups.com, "Shauney@..." <shaun.townsend@...> wrote:
>
> Hi Mike
> Thanks for the reply,tried to adjust vr1 vr2 no change when turning them,did every thing as you told me to,its no big issue because the radios working fine otherwise,any idea mike.
>
> Regards Shaun G0lmf

I would check the alignment in the 520SE service manual.

If you do not have the 520SE service manual, you can download it at the following website:

http://www.n6wk.com/kenwood/

You might only need a slight adjustments. If you do not have a signal generator you can use the Marker.

73's
Mike W5RKL

22581. Re: Astatic D104 microphone for TS-830s or TS-530s radios

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-28 10:37:06 UTC
From: w5rkl
Topic: 22577 Message: 22581

Peter,

Here's my 2 cents. As the others have stated, stick with the MC-50. It's designed to operate with the Kenwood hybrids so best to stick with it.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Noodle10536" <pureenduro@...> wrote:
>
> I have scanned many ofthe past postings on this subject and was hoping that some of the more experienced guys could share someadvice. I have two basic types of D104 mics. One type has a UG-8 base and the other has a TUG-8 base. The TUG8 has the preamp and te UG-8 does not. Which of these two microhones would be the best choice assuming they are wired correctly? Is there a benefit with these over the MC-50? I have two of those as well and one works much better than the other. Thanks for any help or suggestions. 73 Peter.
>

22582. TS830s went pop!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-28 11:11:54 UTC
From: rdmegargle
Topic: 22582 Message: 22582

While working some DX this weekend, my antenna switch shorted and then came the sickening "pop-fizz" sound and associated smell from the final cage area. Rx is still good. When transmitting into a dummy load IP goes full scale and produces <5 watts out. Before opening up the radio, any suggestions or bets on what components I may have fried?
Thanks,
Russ K8AF

22583. Re: [TS-520_820_530_830] Re: TS830M

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-28 12:08:25 UTC
From: MARC McINTYRE
Topic: 10675 Message: 22583

Hi Mike,
As I told you I have ordered the 1N60 diode to replace D1 on the TS830M AM board which is on its way
but not arrived yet. Today I decided to check D1. I lifted one leg of D1 off the pc board and it tested ok, High
resistance one way and Low resistance the other way. I decided to test L1 with the meter and it was open circuit,
should I not have got a short or resistance reading of some value ?.

Marc.

From: w5rkl <w5rkl@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, 23 September, 2009 14:58:00
Subject: [TS-520_820_530_830] Re: TS830M

Hello Marc,

The S meter will always indicate a receive signal in AM regardless whether the AM UNIT is working or not. The AM UNIT has nothing to do with the S meter indication in AM.

The 830's AM UNIT is the receiver's AM detector and only functions when the mode switch is in AM.

My initial suspicion is D1 (1N60 germanium diode) on the AM UNIT is open.

Q3 has nothing to do with the symptoms you are experiencing. Q3 is a relay control switching transistor for RL1 on the AM UNIT, nothing more. From your statements the relay on the AM UNIT is working when the MODE switch is placed in AM.

73's
Mike W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, MARC McINTYRE <kenquad@... > wrote:
>
> Hello Mike,
>
> I checked the voltages you suggested and all voltages are correct. I cleaned both plugs on the AM board
> and connected and disconnected them several times. I also cleaned the plug on the IF board which connects to
> plug 1 on the AM board. I cleaned the contacts on Relay 1 on the AM board with Deoxit. Still not hearing
> any signals on AM, but as usual the S meter is responding to incoming signals when switched to AM mode.
> Unfortunately Mike I do not have a scope to trace the signal.

>
> Marc.
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> _____ _____ _____ __
> From: w5rkl <w5rkl@...>
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Tuesday, 22 September, 2009 17:12:26
> Subject: [TS-520_820_ 530_830] Re: TS830M
>
>
> Hello Marc,
>
> The AM UNIT is powered by 12VDC supplied from the AF UNIT's "12" terminal. Ensure 12VDC is present on the AM UNIT by measuring the voltage between plug 2 pin 3 and chassis ground. If there is no 12VDC on plug 2 pin 3 the AM UNIT will not function. Also check for 9VDC at the AM UNIT's AMS terminal. This voltage is only present with the MODE switch in AM.
>
> I also recommend removing both AM UNIT plugs, give a shot of contact cleaner to both AM UNIT sets of pins then reconnect both plugs a few times.
>
> Trace the signal from the IF UNIT to and through the AM UNIT then back to the IF UNIT.
>
> If possible, clean the relay contacts of RL1 on the AM UNIT. A corroded connection can affect the signal as it flows through the AM UNIT, especially the output of Q2 that flows through RL1-2 to the AF UNIT.
>
> Check the AM UNIT's mounting hardware to ensure they are tight.
>
> 73's
> Mike W5RKL
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22584. Re: [TS-520_820_530_830] TS830s went pop!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-28 12:15:43 UTC
From: Gordon JC Pearce
Topic: 22582 Message: 22584

On Mon, 2009-09-28 at 11:11 +0000, rdmegargle wrote:
> While working some DX this weekend, my antenna switch shorted and then
> came the sickening "pop-fizz" sound and associated smell from the
> final cage area. Rx is still good. When transmitting into a dummy
> load IP goes full scale and produces <5 watts out. Before opening up
> the radio, any suggestions or bets on what components I may have
> fried?

Cathode resistors are a favourite for this. The original ones are
carbon composition, and will probably be found split open with bits all
over the bottom of the PA cage. Metal film resistors are perfectly okay
here, but don't be tempted to "uprate" the power. Better that a cheap
resistor fails than an expensive valve or hard-to-find PA choke or power
transformer...

Gordon MM0YEQ

22585. Re: Astatic D104 microphone for TS-830s or TS-530s radios

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-28 13:38:44 UTC
From: Noodle10536
Topic: 22577 Message: 22585

Thanks guys, that is what I will do. I can save the D104's for my Drake. I have the mic cords with the dots lined up and the connector at the microphone on the H side. I have both set the same and on one I set the mic gain a little more than 1/2 and the other (seemingly not so good one) at full + rotation of mic gain setting. I tried to test the continuity in the cables and they seemed good. I checked the switch and everything looked ok. I stared at it quite a bit but it was no better :-). Thanks for all your help. 73's Peter.

22586. Re: TS830s went pop!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-28 16:05:37 UTC
From: w5rkl
Topic: 22582 Message: 22586

Yes, sounds as though all 4 cathode resistors, R2 thru R5, 20 ohm 1/2 watt "each" resistor, have blown.

I would NOT operate the 830 until you replace the 4 cathode resistors, R2 thru R5.

Replace "ALL" 4 of the 20 ohm 1/2 watt resistors AND, as already stated, do NOT increase the wattage of the resistors. Install 4 new metal film 20 ohm 1/2 watt resistors for R2 thru R5.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "rdmegargle" <rdmegargle@...> wrote:
>
> While working some DX this weekend, my antenna switch shorted and then came the sickening "pop-fizz" sound and associated smell from the final cage area. Rx is still good. When transmitting into a dummy load IP goes full scale and produces <5 watts out. Before opening up the radio, any suggestions or bets on what components I may have fried?
> Thanks,
> Russ K8AF
>

22587. Re: TS830M

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-28 16:23:18 UTC
From: w5rkl
Topic: 10675 Message: 22587

Yes, if L1 was good, not opened, you should measure a short across it.

An open L1 will prevent voltage from being applied to Q1 which will result in the AM UNIT not working.

You can verify that L1 is the source of the problem in the AM UNIT by simply placing a temporary jumper across L1 to see if the AM UNIT starts working. If it works then you've found the problem.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, MARC McINTYRE <kenquad@...> wrote:
>
> Hi Mike,
> As I told you I have ordered the 1N60 diode to replace D1 on the TS830M AM board which is on its way
> but not arrived yet. Today I decided to check D1. I lifted one leg of D1 off the pc board and it tested ok, High
> resistance one way and Low resistance the other way. I decided to test L1 with the meter and it was open circuit,
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> _____
> From: w5rkl <w5rkl@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, 23 September, 2009 14:58:00
> Subject: [TS-520_820_530_830] Re: TS830M
>
>
> Hello Marc,
>
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>
> The 830's AM UNIT is the receiver's AM detector and only functions when the mode switch is in AM.
>
> My initial suspicion is D1 (1N60 germanium diode) on the AM UNIT is open.
>
> Q3 has nothing to do with the symptoms you are experiencing. Q3 is a relay control

switching transistor for RL1 on the AM UNIT, nothing more. From your statements the relay on the AM UNIT is working when the MODE switch is placed in AM.
>
> 73's
> Mike W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com, MARC McINTYRE <kenquad@ > wrote:
> >
> > Hello Mike,
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> > _____ _____ _____ __
> > From: w5rkl <w5rkl@>
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Sent: Tuesday, 22 September, 2009 17:12:26
> > Subject: [TS-520_820_ 530_830] Re: TS830M
> >
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> > I also recommend removing both AM UNIT plugs, give a shot of contact cleaner to both AM UNIT sets of pins then reconnect both plugs a few times.
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> > Trace the signal from the IF UNIT to and through the AM UNIT then back to the IF UNIT.
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> >
> > Check the AM UNIT's mounting hardware to ensure they are tight.
> >

> > 73's
> > Mike W5RKL
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22588. Re: TS830s went pop!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-28 17:37:44 UTC
From: rdmegargle
Topic: 22582 Message: 22588

Thanks for the advice. I'll open the radio tonight and see what damage I have. I'll report back.
73,
Russ K8AF

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Yes, sounds as though all 4 cathode resistors, R2 thru R5, 20 ohm 1/2 watt "each" resistor, have blown.
>
> I would NOT operate the 830 until you replace the 4 cathode resistors, R2 thru R5.
>
> Replace "ALL" 4 of the 20 ohm 1/2 watt resistors AND, as already stated, do NOT increase the wattage of the resistors. Install 4 new metal film 20 ohm 1/2 watt resistors for R2 thru R5.
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> 73's
> Mike W5RKL
>
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> --- In TS-520_820_530_830@yahoogroups.com, "rdmegargle" <rdmegargle@> wrote:
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> > Thanks,
> > Russ K8AF
> >
>

22589. ts520se bias

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-28 18:35:43 UTC
From: shaun3416
Topic: 22589 Message: 22589

Im starting to find a few issues with my 520.The bias increases after the radio is turned up only in lsb,there seems to be interaction between the drive and ip reading.
Also have i got this right vr2 for maximum reading,adjust from the bottom of the radio no need to remove the case,its just that the rit needs alignment is this the same pot?
I appreciate that the radio my need full alignment,any comments
i would be gratefull
Regards Shaun

22590. Re: ts520se bias

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-28 18:46:25 UTC
From: shaun3416
Topic: 22589 Message: 22590

--- In TS-520_820_530_830@yahoogroups.com, "shaun3416" <shaun.townsend@...> wrote:
>
> Im starting to find a few issues with my 520.The bias increases after the radio is turned up only in lsb,there seems to be interaction between the drive and ip reading.
> Also have i got this right vr2 for maximum reading,adjust from the bottom of the radio no need to remove the case,its just that the rit needs alignment is this the same pot?
> I appreciate that the radio my need full alignment,any comments
> i would be gratefull
> Regards Shaun
>
When the radio is tuned for full output 225ma...not turned up

22591. Re: [TS-520_820_530_830] Re: TS830M

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-28 21:08:59 UTC
From: MARC McINTYRE
Topic: 10675 Message: 22591

Yes Mike, L1 is open circuit. I shorted the two legs of L1 and I got a "hiss" in the speaker
where I was getting nothing at all. I removed L1 from the board and double checked, it is open. Do you think this part will be difficult to get.

Marc.

_____
From: w5rkl <w5rkl@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, 28 September, 2009 17:23:18
Subject: [TS-520_820_530_830] Re: TS830M

Yes, if L1 was good, not opened, you should measure a short across it.

An open L1 will prevent voltage from being applied to Q1 which will result in the AM UNIT not working.

You can verify that L1 is the source of the problem in the AM UNIT by simply placing a temporary jumper across L1 to see if the AM UNIT starts working. If it works then you've found the problem.

73's
Mike W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, MARC McINTYRE <kenquad@... > wrote:
>
> Hi Mike,
> As I told you I have ordered the 1N60 diode to replace D1 on the TS830M AM board which is on its way
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> _____ _____ _____ __
> From: w5rkl <w5rkl@...>
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Wednesday, 23 September, 2009 14:58:00
> Subject: [TS-520_820_ 530_830] Re: TS830M
>

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> Hello Marc,
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> The S meter will always indicate a receive signal in AM regardless whether the AM UNIT is working or not. The AM UNIT has nothing to do with the S meter indication in AM.
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> The 830's AM UNIT is the receiver's AM detector and only functions when the mode switch is in AM.
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> My initial suspicion is D1 (1N60 germanium diode) on the AM UNIT is open.
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> Q3 has nothing to do with the symptoms you are experiencing.. Q3 is a relay control switching transistor for RL1 on the AM UNIT, nothing more. From your statements the relay on the AM UNIT is working when the MODE switch is placed in AM.
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> 73's
> Mike W5RKL
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> --- In TS-520_820_530_ 830@yahoogroups. com, MARC McINTYRE <kenquad@ > wrote:
> >
> > Hello Mike,
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> > I checked the voltages you suggested and all voltages are correct. I cleaned both plugs on the AM board
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> > _____ _____ _____ __
> > From: w5rkl <w5rkl@>
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Sent: Tuesday, 22 September, 2009 17:12:26
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22592. 15 Meter Crystals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-28 21:28:46 UTC
From: Stephen Judd
Topic: 22592 Message: 22592

I have made a determination that I have a bad 29.895 crystal that has gone south according to my oscilliscope if someone has an extra one they are willing to part with that would be great if not can someone refer me to the crystal palace that is familuar with this radio and the crystal case etc again thanks for any help 73
 Stephen/KB7BGS

[Non-text portions of this message have been removed]

22593. Re: TS830M

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-28 22:09:48 UTC
From: w5rkl
Topic: 10675 Message: 22593

Marc,

I'm not sure about availability. If the part value "1mh" is correct, Mouser sells one under the following part number:

542-5900-102-RC

It's a 800ma 1mh RF choke.

Price: $2.09

www.mouser.com

Enter the part number at the top of the page. Mouser says they have 149 in stock.

Depending on how the choke is wound, you might be able to rewind the original one. Of course if you can buy a new one, 1mh, for $2. then it's not worth rewinding the original.

Hope that helps.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, MARC McINTYRE <kenquad@...> wrote:
>
> Yes Mike, L1 is open circuit. I shorted the two legs of L1 and I got a "hiss" in the speaker
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> > To: TS-520_820_530_ 830@yahoogroups. com
> > Sent: Wednesday, 23 September, 2009 14:58:00
> > Subject: [TS-520_820_ 530_830] Re: TS830M
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22594. Re: [TS-520_820_530_830] Re: TS830M

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-28 22:25:31 UTC
From: pmarkavage
Topic: 10675 Message: 22594

Of course, one might wonder why it opened in the first place.

Pete, wa2cwa

On Mon, 28 Sep 2009 22:09:48 -0000 "w5rkl" <w5rkl@...> writes:
> Marc,
>
> I'm not sure about availability. If the part value "1mh" is correct,
> Mouser sells one under the following part number:
>
> 542-5900-102-RC
>
> It's a 800ma 1mh RF choke.
>
> Price: $2.09
>
> www.mouser.com
>
> Enter the part number at the top of the page. Mouser says they have
> 149 in stock.
>
> Depending on how the choke is wound, you might be able to rewind the
> original one. Of course if you can buy a new one, 1mh, for $2. then
> it's not worth rewinding the original.
>
> Hope that helps.
>
> 73's
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, MARC McINTYRE
> <kenquad@...> wrote:
> >
> > Yes Mike, L1 is open circuit. I shorted the two legs of L1 and I
> got a "hiss" in the speaker
> > where I was getting nothing at all. I removed L1 from the board
> and double checked, it
> > is open. Do you think this part will be difficult to get.
> >
> > Marc.
> >
> >
> >
> >

> > _____
> > From: w5rkl <w5rkl@...>
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Monday, 28 September, 2009 17:23:18
> > Subject: [TS-520_820_530_830] Re: TS830M
> >
> >
> > Yes, if L1 was good, not opened, you should measure a short across
> it.
> >
> > An open L1 will prevent voltage from being applied to Q1 which
> will result in the AM UNIT not working.
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> > You can verify that L1 is the source of the problem in the AM UNIT
> by simply placing a temporary jumper across L1 to see if the AM UNIT
> starts working. If it works then you've found the problem.
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> > 73's
> > Mike W5RKL
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> > --- In TS-520_820_530_ 830@yahoogroups. com, MARC McINTYRE
> <kenquad@ > wrote:
> > >
> > > Hi Mike,
> > > As I told you I have ordered the 1N60 diode to replace D1 on the
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> > > but not arrived yet. Today I decided to check D1. I lifted one
> leg of D1 off the pc board and it tested ok, High
> > > resistance one way and Low resistance the other way. I decided to
> test L1 with the meter and it was open circuit,
> > > should I not have got a short or resistance reading of some
> value ?.
> > >
> > > Marc.

22595. TS 520 Pilot lights

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-28 22:42:50 UTC
From: Hartlessone
Topic: 22595 Message: 22595

I bought pilot lights from a supplier that were supposed to be replacements for the ones in my TS520. For any of you who have changed the lamps, you know how difficult it is. Anyway, they were NOT replacements. they did not produce any illumination on the dial. My question is, does anyone know where I can obtain the correct lamps and the grommets that are used? Thanks so much for your help.
Bill
W5ZV

22596. Re: TS 520 Pilot lights

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-28 22:48:53 UTC
From: w5rkl
Topic: 22595 Message: 22596

Bill,

Try www.k4eaa.com and click on hard to find parts.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Hartlessone" <billhart_1@...> wrote:
>
> I bought pilot lights from a supplier that were supposed to be replacements for the ones in my TS520. For any of you who have changed the lamps, you know how difficult it is. Anyway, they were NOT replacements. they did not produce any illumination on the dial. My question is, does anyone know where I can obtain the correct lamps and the grommets that are used? Thanks so much for your help.
> Bill
> W5ZV
>

22597. Re: TS830M

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-28 22:49:54 UTC
From: w5rkl
Topic: 10675 Message: 22597

Good question Pete.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, pmarkavage <pmarkavage@...> wrote:
>
> Of course, one might wonder why it opened in the first place.
>
> Pete, wa2cwa
>
> On Mon, 28 Sep 2009 22:09:48 -0000 "w5rkl" <w5rkl@...> writes:
> > Marc,
> >
> > I'm not sure about availability. If the part value "1mh" is correct,
> > Mouser sells one under the following part number:
> >
> > 542-5900-102-RC
> >
> > It's a 800ma 1mh RF choke.
> >
> > Price: $2.09
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> > www.mouser.com
> >
> > Enter the part number at the top of the page. Mouser says they have
> > 149 in stock.
> >
> > Depending on how the choke is wound, you might be able to rewind the
> > original one. Of course if you can buy a new one, 1mh, for $2. then
> > it's not worth rewinding the original.
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> > Hope that helps.
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> > 73's
> > Mike W5RKL
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> > --- In TS-520_820_530_830@yahoogroups.com, MARC McINTYRE
> > <kenquad@> wrote:
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> > > _____
> > > From: w5rkl <w5rkl@>
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Sent: Monday, 28 September, 2009 17:23:18
> > > Subject: [TS-520_820_530_830] Re: TS830M
> > >
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> > > --- In TS-520_820_530_ 830@yahoogroups. com, MARC McINTYRE
> > <kenquad@ > wrote:
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> > > > > Hi Mike,
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> > value ?.
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> > > > > Marc.
>

22598. Re: 15 Meter Crystals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-29 01:15:54 UTC
From: blacklabpupp
Topic: 22592 Message: 22598

If you cant find one IMC sells them I had one made for anothre radio and it was only $35. Finding one might be tough.

--- In TS-520_820_530_830@yahoogroups.com, Stephen Judd <swanradios@...> wrote:
>
> I have made a determination that I have a bad 29.895 crystal that has gone south according to my oscilliscope if someone has an extra one they are willing to part with that would be great if not can someone refer me to the crystal palace that is familuar with this radio and the crystal case etc again thanks for any help 73
> Stephen/KB7BGS
>
>
>
>
> [Non-text portions of this message have been removed]
>

22599. Re: TS830s went pop!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-29 01:20:22 UTC
From: rdmegargle
Topic: 22582 Message: 22599

It was R2 through R5. I'll have them replaced tomorrow with the same value and wattage and be back on the air once again.
73,
Russ K8AF

22600. Re: [TS-520_820_530_830] Re: TS830M

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-29 10:26:51 UTC
From: Daniel TOESCA
Topic: 10675 Message: 22600

Hi, You can also find 470 microhenrys RF chokes in most of the old CB sets - maybe you have one below your desk... 73's - Daniel, ON5PY

2009/9/29, w5rkl <w5rkl@...>:
>
>
>
> Good question Pete.
>
> 73's
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> pmarkavage <pmarkavage@...> wrote:
> >
> > Of course, one might wonder why it opened in the first place.
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> > On Mon, 28 Sep 2009 22:09:48 -0000 "w5rkl" <w5rkl@...> writes:
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> > > Depending on how the choke is wound, you might be able to rewind the
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> > > it's not worth rewinding the original.
> > >
> > > Hope that helps.
> > >
> > > 73's
> > > Mike W5RKL
> > >

> > >
> > > --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> MARC McINTYRE
> > > <kenquad@> wrote:
> > > >
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> > > >
> > > >
> > > >
> > > >
> > > > _________________________________
> > > > From: w5rkl <w5rkl@>
> > > > To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> > > > Sent: Monday, 28 September, 2009 17:23:18
> > > > Subject: [TS-520_820_530_830] Re: TS830M
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> > > > Mike W5RKL
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> > > > --- In TS-520_820_530_ 830@yahoogroups. com, MARC McINTYRE
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> > > > > Marc.

> >
>
>
>

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22601. Re: [TS-520_820_530_830] Re: TS830M

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-29 14:10:28 UTC
From: MARC McINTYRE
Topic: 10675 Message: 22601

Hi Mike,
Managed to get a 1mH choke in our local Maplin Store and now have it installed.
The radio is now working in AM mode and I have had it running now in AM mode
for at least 3 hours.
Thank you Mike for all the help you have given me.

Also I would like to thank Pete WA2CWA and Daniel ON5PY for their input to the problem as
well.

Marc.

From: Daniel TOESCA <ON5PY1967@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, 29 September, 2009 11:26:51
Subject: Re: [TS-520_820_530_830] Re: TS830M

Hi, You can also find 470 microhenrys RF chokes in most of the old CB sets -
maybe you have one below your desk... 73's - Daniel, ON5PY

2009/9/29, w5rkl <w5rkl@yahoo. com>:
>
>
>
> Good question Pete.
>
> 73's
> Mike W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com<TS-520_820_ 530_830%40yahoog roups.com> ,
> pmarkavage <pmarkavage@ ...> wrote:
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> > Of course, one might wonder why it opened in the first place.
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> > Pete, wa2cwa
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> > On Mon, 28 Sep 2009 22:09:48 -0000 "w5rkl" <w5rkl@...> writes:
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> > > Enter the part number at the top of the page. Mouser says they have
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> > > Hope that helps.
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> > >
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> > > --- In TS-520_820_530_ 830@yahoogroups. com<TS-520_820_ 530_830%40yahoog roups.com>
,
> MARC McINTYRE
> > > <kenquad@> wrote:
> > > >
> > > > Yes Mike, L1 is open circuit. I shorted the two legs of L1 and I
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> > > and double checked, it
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> > > >
> > > >
> > > > _____ _____ _____ __
> > > > From: w5rkl <w5rkl@>
> > > > To: TS-520_820_530_ 830@yahoogroups. com<TS-520_820_ 530_830%40yahoog roups.com>
> > > > Sent: Monday, 28 September, 2009 17:23:18
> > > > Subject: [TS-520_820_ 530_830] Re: TS830M
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> > > > --- In TS-520_820_530_ 830@yahoogroups. com, MARC McINTYRE
> > > <kenquad@ > wrote:
> > > > >
> > > > > Hi Mike,
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> > > > > Marc.
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>
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22602. Re: [TS-520_820_530_830] Re: 15 Meter Crystals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-29 14:30:47 UTC
From: Stephen Judd
Topic: 22592 Message: 22602

Thanks for your help they are nice and knowledgeable people at IMC 73
 Stephen/KB7BGS

From: blacklabpupp <blacklabpupp@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, September 28, 2009 7:15:54 PM
Subject: [TS-520_820_530_830] Re: 15 Meter Crystals

If you cant find one IMC sells them I had one made for anothre radio and it was only $35. Finding one might be tough.

--- In TS-520_820_530_ 830@yahoogroups. com, Stephen Judd <swanradios@ ...> wrote:
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> I have made a determination that I have a bad 29.895 crystal that has gone south according to my oscilliscope if someone has an extra one they are willing to part with that would be great if not can someone refer me to the crystal palace that is familuar with this radio and the crystal case etc again thanks for any help 73
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> [Non-text portions of this message have been removed]
>

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22603. TS-520 No transmit after a faulty vfo connector.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-29 03:24:03 UTC
From: radio165
Topic: 22603 Message: 22603

Hello folks,
I have had this TS-520 since 1984. It's been a good ole rig with very few problems. Now I have a problem. The rig was on as I was pulling it towards me on the bench to plug in or unplug something. I heard a snap come from the rear of the rig and the lamps flickered. I found that the shield in the VFO connector coming from the external VFO had broken free from it's pin and must have shorted on one of the others. This was repaired easily enough. But now I have RX but no TX. The VFO indicator on the dial goes out when the rig is keyed in any mode. This is also true when switched to the external VFO. I also tried with just the jumper between pins 8 and 9. The relay is energizing, the heaters are on and there is the 60mA idling current but no more.

This might be an easy one for someone who is more familiar with the circuit. Seems no matter what the question, there's always someone in the group that has some suggestions Hopefully someone can point me in the right direction.

Thanks
Mike Mackin
N8YOK

22604. Variable Resistor in pieces ??

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-29 07:32:36 UTC
From: whiteknight926
Topic: 22604 Message: 22604

Hi Gang:

Can anyone tell me what the Variable resistor part number is that is exactly on the outside, right next to the CW filter on the IF board in a TS-520. I have found that mine just fell apart because the back piece that holds it together broke and the thing just fell into pieces. I do know that it is a 1K-ohm pot at least, and it is mounted on a raised board with a 3.3k-Ohm resistor on it and has a red and blue wires leaving each side of it.

I am searching the scematic and can't seem to find it and I am not shure what it does. I also have a problem with RL-2 relay chatter/clicking and am wondering if this might be part of my problem ???

Thanks
73's All
Dan
de KC0GXY

22605. Has anyone has experience with single 6146B operation in the finals?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-29 04:00:51 UTC
From: loewensteijn@rocketmail.com
Topic: 22605 Message: 22605

Just obtained a TS-520 in a sorry (external) state. Plate tuning cap is locked solid, load capacitor can only be turned with force. Fortunately internally no rust to be seen.

I am considering running this rig with a single 6146B in the PA and wonder if anyone has experience doing this and can relate his (her) experiences?

One of the many items I am considering is reducing the 800 Vdc to a bit lower.

Anyone having an opinion or suggestion on this matter, please chime in.

Thanks in advance, Marinus, ZL2ML.

22606. Re: TS830M

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-29 15:45:42 UTC
From: w5rkl
Topic: 10675 Message: 22606

You welcome Marc, I'm glad I was able to help. Have fun with the 830 in AM mode.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, MARC McINTYRE <kenquad@...> wrote:
>
> Hi Mike,
> Managed to get a 1mH choke in our local Maplin Store and now have it installed.
> The radio is now working in AM mode and I have had it running now in AM mode
> for at least 3 hours.
> Thank you Mike for all the help you have given me.
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> > > Of course, one might wonder why it opened in the first place.
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> > > > <kenquad@> wrote:
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> > > > >
> > > > > You can verify that L1 is the source of the problem in the AM UNIT
> > > > by simply placing a temporary jumper across L1 to see if the AM UNIT
> > > > starts working. If it works then you've found the problem.
> > > > >
> > > > > 73's
> > > > > Mike W5RKL
> > > > >
> > > > > --- In TS-520_820_530_ 830@yahoogroups. com, MARC McINTYRE
> > > > <kenquad@ > wrote:
> > > > > >
> > > > > > Hi Mike,
> > > > > > As I told you I have ordered the 1N60 diode to replace D1 on the
> > > > TS830M AM board which is on its way
> > > > > > but not arrived yet. Today I decided to check D1. I lifted one
> > > > leg of D1 off the pc board and it tested ok, High
> > > > > > resistance one way and Low resistance the other way. I decided to
> > > > test L1 with the meter and it was open circuit,
> > > > > > should I not have got a short or resistance reading of some
> > > > value ?.
> > > > > >
> > > > > > Marc.
> > > >
> > >
> > >
> > >
> >
> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
>

22607. Re: [TS-520_820_530_830] Has anyone has experience with single 6146B operation in the finals?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-29 16:26:30 UTC
From: Robert DROGOUL
Topic: 22605 Message: 22607

Hi Marinus,
I'm not sure the single 6146B wil work correctly all alone, without changes in the pi circuit in its plate, and also in the driver plate circuit. Even with reducing the plate voltage, the change in impedance will be severe. I would try another approch, using insteed two 2E26 tubes (they have same pining as the 6146B) and divde by two the plate voltage (direct rectification insteed of voltage doubling), about 500 volts. The output will be around 55/60 watts very comfortable on the tubes and the power supply!
Other readers will give you other solutions too!
73 GL
F5UL, Bob

----- Original Message -----
From: loewensteijn@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, September 29, 2009 6:00 AM
Subject: [TS-520_820_530_830] Has anyone has experience with single 6146B operation in the finals?

Just obtained a TS-520 in a sorry (external) state. Plate tuning cap is locked solid, load capacitor can only be turned with force. Fortunately internally no rust to be seen.

I am considering running this rig with a single 6146B in the PA and wonder if anyone has experience doing this and can relate his (her) experiences?

One of the many items I am considering is reducing the 800 Vdc to a bit lower.

Anyone having an opinion or suggestion on this matter, please chime in.

Thanks in advance, Marinus, ZL2ML.

[Non-text portions of this message have been removed]

22608. Re: TS-520 No transmit after a faulty vfo connector.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-29 17:04:37 UTC
From: w5rkl
Topic: 22603 Message: 22608

Mike,

Check the position of the 520's FUNCTION switch. What position is it in?

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "radio165" <radio165@...> wrote:
>
> Hello folks,
> I have had this TS-520 since 1984. It's been a good ole rig with very few problems. Now I have a problem. The rig was on as I was pulling it towards me on the bench to plug in or unplug something. I heard a snap come from the rear of the rig and the lamps flickered. I found that the shield in the VFO connector coming from the external VFO had broken free from it's pin and must have shorted on one of the others. This was repaired easily enough. But now I have RX but no TX. The VFO indicator on the dial goes out when the rig is keyed in any mode. This is also true when switched to the external VFO. I also tried with just the jumper between pins 8 and 9. The relay is energizing, the heaters are on and there is the 60mA idling current but no more.
>
> This might be an easy one for someone who is more familiar with the circuit. Seems no matter what the question, there's always someone in the group that has some suggestions Hopefully someone can point me in the right direction.
>
> Thanks
> Mike Mackin
> N8YOK
>

22609. RE: [TS-520_820_530_830] Has anyone has experience with single 6146B operation in the finals?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-29 17:41:36 UTC
From: Sulaiman Abdullah
Topic: 22605 Message: 22609

Running with only one 6146/2001 I think is mentioned in the manual for lower power license operators, originally a kit was available, it allowed the single heater to work .(normally the heaters are in series). I think that is the only requirement.

To: TS-520_820_530_830@yahoogroups.com
From: zl2ml@...
Date: Tue, 29 Sep 2009 04:00:51 +0000
Subject: [TS-520_820_530_830] Has anyone has experience with single 6146B operation in the finals?

Just obtained a TS-520 in a sorry (external) state. Plate tuning cap is locked solid, load capacitor can only be turned with force. Fortunately internally no rust to be seen.

I am considering running this rig with a single 6146B in the PA and wonder if anyone has experience doing this and can relate his (her) experiences?

One of the many items I am considering is reducing the 800 Vdc to a bit lower.

Anyone having an opinion or suggestion on this matter, please chime in.

Thanks in advance, Marinus, ZL2ML.

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[Non-text portions of this message have been removed]

22610. Re: Has anyone has experience with single 6146B operation in the finals?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-29 17:42:52 UTC
From: w5rkl
Topic: 22605 Message: 22610

Hello Marinus,

I suspect the PLATE's "vernier" control is what's actually frozen, not the PLATE variable capacitor itself.

The stiffness in the LOAD capacitor appears to be caused by excessive dirt collection between the fixed and variable plates. Use canned air to remove the dirt then clean the bearings.

I do have one question. Is there evidence the 520 has been in a flood or having been stored in a barn, shed, or other "nature" controlled environment? I sure sounds like it has.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "loewensteijn@..." <zl2ml@...> wrote:
>
> Just obtained a TS-520 in a sorry (external) state. Plate tuning cap is locked solid, load capacitor can only be turned with force. Fortunately internally no rust to be seen.
>
> I am considering running this rig with a single 6146B in the PA and wonder if anyone has experience doing this and can relate his (her) experiences?
>
> One of the many items I am considering is reducing the 800 Vdc to a bit lower.
>
> Anyone having an opinion or suggestion on this matter, please chime in.
>
> Thanks in advance, Marinus, ZL2ML.
>

22611. Re: [TS-520_820_530_830] Has anyone has experience with single 6146B operation in the finals?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-29 17:49:55 UTC
From: Gordon JC Pearce
Topic: 22605 Message: 22611

On Tue, 2009-09-29 at 04:00 +0000, loewensteijn@... wrote:

> I am considering running this rig with a single 6146B in the PA and
> wonder if anyone has experience doing this and can relate his (her)
> experiences?

Is this to get 50W output? One mod I've seen is to rewire the mode switch so that the screen grid has the same voltage as for the TUNE setting. I'm not sure if this has any long-term horrible side-effects on the PA valves.

Another trick to reduce output power is to bias the ALC input a little with a PP3 battery and a variable resistor. This lets you have quite fine control over the output power down to a handful of milliwatts - useful enough that I'm surprised it didn't have that as standard!

The simple method of reducing TX power on SSB is to simply to reduce the mike gain or talk quieter, but this will give you a horrible noisy signal.

Gordon MM0YEQ

22612. Re: [TS-520_820_530_830] Re: Thanks

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-29 17:58:08 UTC
From: Shauney@btinternet
Topic: 70 Message: 22612

Hi Mike,
It worked signals all good,very sensitive sounds great,for some reason i tried adjusting vr1 and 2 next to the antenna and mixer driver coils and not the ones on the i.f board.Not sure why the bias is alternating wth the alc drive only slightly though and not all the time.
Thanks again Mike 73s

--- On Wed, 23/9/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: Thanks
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, 23 September, 2009, 9:26 PM

Hello Shaun,

Glad to hear your 830 is working great. Always good to hear these responses.

I must say I am not aware of a modification for the receiver's RF amplifier in the 520SE. It may be a subsitute for the Japanese transistor. Some of the original transistors used by Kenwood are very difficult to find if one can find them at all. Substitutions are common which may not be the same transistor as the original.

You can use the Marker to set the S meter. I use 80 meters and connect a dummy load to the antenna SO-239 on the rear of the transceiver. The dummy load provides a 50 ohm load to the transceiver.

Set the 520SE on 80 meters, tune to 3.700, and then adjust the S meter zero pot for a zero no-signal meter indication. Once that is accomplished, turn the Marker ON and tune the VFO for maximum S meter indication. Adjust the DRIVE control, again for maximum S meter indication. If the S meter is below S9, adjust the S meter gain pot for an S9 reading.

I have used this method for quite some time now and it works well for me. I compare the adjustments with my Yaesu FT-757 (receive preamp turned OFF on the 757) and it's quite close.

73's
Mike W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, "shaun3416" <shaun.townsend@ ...> wrote:
>
> Hi it was sometime last year i had a problem with my ts830 ip reading over the 225ma when tuned.Its was indeed the four cathode bias resistors,thanks to w5rkl,ke5put, n6wk and every one else who gave input on the matter.Well now ive got a really nice 830s 100 watts on every band even 10 metres.really pleased.
> My next question for the group is about a ts520se,only owned it for a week or so and found the s-metre sensitivity not so good.Ive read the manaul and looks like i need a

signal generator its a couple of s points down and only a s7 with the cal-25.Also its had a 6,6 mosfet fitted in q3 rf amp,could any body tell me about this mod.
>
> Regards Shaun
>

[Non-text portions of this message have been removed]

22613. TS-520 Pilot Lamps

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-29 20:02:31 UTC
From: Dennis Dittiacur
Topic: 22613 Message: 22613

Try Ken Kemski K4EAA ken@...

Dennis
WB8RUW

[Non-text portions of this message have been removed]

22614. Re: [TS-520_820_530_830] TS 520 Pilot lights

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-29 22:02:41 UTC
From: martin
Topic: 22595 Message: 22614

Hi Bill. Radio Shack has 12V bulbs that will work. They come in a package of 3 and are red, green, and yellow. To remove the color, you can use a bit of nail polish remover, or carefully scrape with a small sharp knife.

TTYL

Hartlessone wrote:
> I bought pilot lights from a supplier that were supposed to be
> replacements for the ones in my TS520. For any of you who have
> changed the lamps, you know how difficult it is. Anyway, they were
> NOT replacements. they did not produce any illumination on the
> dial. My question is, does anyone know where I can obtain the
> correct lamps and the grommets that are used? Thanks so much for
> your help. Bill W5ZV
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

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www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at http://www.defectivebydesign.org/what_is_drm"

22615. Problem in files section

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-29 22:05:16 UTC
From: Lou Blasco
Topic: 22613 Message: 22615

Hi All,

I just tried to access some data from the files section. I got a Yahoo message saying "The requested document is not available". The photo section is ok. Is anyone else having the same problem?

Lou
VK3ALB

22616. Re: [TS-520_820_530_830] Problem in files section

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-29 22:24:10 UTC
From: martin
Topic: 22613 Message: 22616

Hi Lou. I just got a couple of documents from the files section with
no problems. What documents specifically are you trying to access?

TTYL

Lou Blasco wrote:
> Hi All,
>
> I just tried to access some data from the files section. I got a
> Yahoo message saying "The requested document is not available". The
> photo section is ok. Is anyone else having the same problem?
>
> Lou
> VK3ALB
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

22617. Re: [TS-520_820_530_830] Problem in files section

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-29 22:29:19 UTC
From: Lou Blasco
Topic: 22613 Message: 22617

Hi Martin,

I was looking for 12BY7A info but I note it's now accessible. One of
those funny computer things I guess.

Thanks for replying.

Lou
VK3ALB

At 08:24 AM 30/09/2009, you wrote:
>Hi Lou. I just got a couple of documents from the files section with
>no problems. What documents specifically are you trying to access?
>
>TTYL
>
>Lou Blasco wrote:
> > Hi All,
> >
> > I just tried to access some data from the files section. I got a
> > Yahoo message saying "The requested document is not available". The
> > photo section is ok. Is anyone else having the same problem?
> >
> > Lou
> > VK3ALB
> >
> >
>
>--
>CUL8R
>
>KBOHAE kb0hae@... Martin Campbell
>
>A Satisfied Sidux Linux user! To get Sidux go to:
>www.sidux.com/index.html
>"Protect your digital freedom and privacy, eliminate DRM, learn more
>at http://www.defectivebydesign.org/what_is_drm"
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>Yahoo! Groups Links
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22618. Re: Thanks

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-29 23:18:06 UTC
From: w5rkl
Topic: 70 Message: 22618

Hello Shaun,

If you adjusted VR2 on the RF UNIT board, you need to readjust VR2's setting so the voltage on T4's secondary center tap, in receive with the antenna disconnected, will be -3.5VDC.

Once the receive no-signal voltage is set to -3.5VDC and without changing VR2's setting, placing the 830 in transmit without RF output, the voltage at T4's secondary center tap should change to +1.3VDC.

You should also adjust VR1 so the voltage at the junction of one side of VR1 and C57 plus the junction of VR1's other side and C58 should be 2.5VDC in receive in both places. Adjusting VR1 should result in the voltage being the same at both places. Remember, the "2.5VDC" is in "receive" with no incoming signal applied to the antenna (remove the antenna). Without changing VR1's setting, placing the 830 in transmit, the voltages at both junctions should rise to +6.2VDC.

To see these voltages, download the high resolution schematic of the TS-830 at N6WK's website:

http://www.n6wk.com/kenwood/

Here's the link on N6WK's website for the high resolution schematic:

http://www.n6wk.com/kenwood/TS-830S-excellent%20schematic.pdf

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Shauney@..." <shaun.townsend@...> wrote:
>
> Hi Mike,
> It worked signals all good,very sensitive sounds great,for some reason i tried adjusting vr1 and 2 next to the antenna and mixer driver coils and not the ones on the i.f board.Not sure why the bias is alternating wth the alc drive only slightly though and not all the time.
> Thanks again Mike 73s
>
> --- On Wed, 23/9/09, w5rkl <w5rkl@...> wrote:
>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: Thanks
> To: TS-520_820_530_830@yahoogroups.com
> Date: Wednesday, 23 September, 2009, 9:26 PM
>
>
>

>
>
>
> Hello Shaun,
>
> Glad to hear your 830 is working great. Always good to hear these responses.
>
> I must say I am not aware of a modification for the receiver's RF amplifier in the 520SE. It may be a subsitute for the Japanese transistor. Some of the original transistors used by Kenwood are very difficult to find if one can find them at all. Substitutions are common which may not be the same transistor as the original.
>
> You can use the Marker to set the S meter. I use 80 meters and connect a dummy load to the antenna SO-239 on the rear of the transceiver. The dummy load provides a 50 ohm load to the transceiver.
>
> Set the 520SE on 80 meters, tune to 3.700, and then adjust the S meter zero pot for a zero no-signal meter indication. Once that is accomplished, turn the Marker ON and tune the VFO for maximum S meter indication. Adjust the DRIVE control, again for maximum S meter indication. If the S meter is below S9, adjust the S meter gain pot for an S9 reading.
>
> I have used this method for quite some time now and it works well for me. I compare the adjustments with my Yaesu FT-757 (receive preamp turned OFF on the 757) and it's quite close.
>
> 73's
> Mike W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com, "shaun3416" <shaun.townsend@ ...> wrote:
> >
> > Hi it was sometime last year i had a problem with my ts830 ip reading over the 225ma when tuned.Its was indeed the four cathode bias resistors,thanks to w5rkl,ke5put, n6wk and every one else who gave input on the matter.Well now ive got a really nice 830s 100 watts on every band even 10 metres.really pleased.
> > My next question for the group is about a ts520se,only owned it for a week or so and found the s-metre sensitivity not so good.Ive read the manaul and looks like i need a signal generator its a couple of s points down and only a s7 with the cal-25.Also its had a 6,6 mosfet fitted in q3 rf amp,could any body tell me about this mod.
> >
> > Regards Shaun
> >
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> [Non-text portions of this message have been removed]
>

22619. Re: Has anyone has experience with single 6146B operation in the finals?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-29 22:51:31 UTC
From: loewensteijn@rocketmail.com
Topic: 22605 Message: 22619

--- In TS-520_820_530_830@yahoogroups.com, "Robert DROGOUL" <f5ul@...> wrote:
>
> Hi Marinus,
> I'm not sure the single 6146B wil work correctly all alone, without changes in the pi circuit in its plate, and also in the driver plate circuit. Even with reducing the plate voltage, the change in impedance will be severe. I would try another approch, using insteed two 2E26 tubes (they have same pining as the 6146B) and divde by two the plate voltage (direct rectification insteed of voltage doubling), about 500 volts. The output will be around 55/60 watts very comfortable on the tubes and the power supply!
> Other readers will give you other solutions too!
> 73 GL
> F5UL, Bob

Bob, thanks for the 2E26 suggestion. I think the output will be lower than 55/60 watts, likely more around 40/45 watts. But I wonder about circuit changes required (neutralisation?), have you got any info on that? In any case it is an interesting suggestion that I'll research further since the PSK normally limit their input to the finals. With 100 % duty cycle the stress on the rig gets too much at ~ 100 watts out in PSK and blows up the transformer, besides other heat issues.

I see the 2E26 is in ample supply and cheap too, an added bonus, and it will avoid having to buy 6146B / S2001B since I suspect they need replacing too.

Don't know where it was stored but in the warmer climate here many hams that have a "shack" in a shed next to the house so storage is not normally in the best of conditions.

The other suggestions are appreciated too, keep them coming, many thanks.

73, Marinus, ZL2ML

22620. Re: [TS-520_820_530_830] TS-520 Pilot Lamps

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-30 01:57:48 UTC
From: Bill Hart
Topic: 22613 Message: 22620

Thanks Dennis
Bill

--- On Tue, 9/29/09, Dennis Dittiacur <dittiacur@yahoo.com> wrote:

From: Dennis Dittiacur <dittiacur@...>
Subject: [TS-520_820_530_830] TS-520 Pilot Lamps
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, September 29, 2009, 4:02 PM

Try Ken Kemski K4EAA ken@...

Dennis

WB8RUW

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

22621. Re: Has anyone has experience with single 6146B operation in the finals?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-30 02:00:19 UTC
From: vk2hhs
Topic: 22605 Message: 22621

Yes, the manual details exactly how to do this. I believe there is only a relatively minor change involved but cannot remember offhand what it was. I do not have access to the manual right now but do have it in PDF format if you require. Emaial me if so.

de VK2HHS

--- In TS-520_820_530_830@yahoogroups.com, "loewensteijn@..." <zl2ml@...> wrote:
>
> Just obtained a TS-520 in a sorry (external) state. Plate tuning cap is locked solid, load capacitor can only be turned with force. Fortunately internally no rust to be seen.
>
> I am considering running this rig with a single 6146B in the PA and wonder if anyone has experience doing this and can relate his (her) experiences?
>
> One of the many items I am considering is reducing the 800 Vdc to a bit lower.
>
> Anyone having an opinion or suggestion on this matter, please chime in.
>
> Thanks in advance, Marinus, ZL2ML.
>

22622. Re: [TS-520_820_530_830] Re: Has anyone has experience with single 6146B operation in the finals?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-30 06:32:36 UTC
From: Robert DROGOUL
Topic: 22605 Message: 22622

twinHi Marinus,
And a very good morning, thank's for your msg!
Well, looking through the tubes caracteristics, I got the following results :

Max ratings Filament Cin (pf) Cgp Cout Class Plate Volt Screen volt Grid volt Plate I Grid I Drive level Power Out

2E26

Pdis 13.5 W
P volt 600 v
Sc dis 2.5 W
Sc volt 200 v
6.3 v 12.5 0.2 7 AB1 500 125 -15 22/150 0 0.36 56

6146B

Pdis 35 W
P volt 750 v
Sc dis 3 W
Sc volt 250
6.3 13 0.22 8.5 AB1 750 200 -48 50/250 0 0.4 125

Beside plate and screen voltages we see thazt the internal capacitances ares very near, and beside that the loading charge is 8 kohms for 2E26 and 7 kohms for thes 6146B (both for two tubes)
So as I did this substitution about 25 years ago on a 599 twin in order to use it on a portable station, the only thing I remember for sure is the fact that I did not had any problem with the substitution. Just the polar grid to change (-48 to -15), the plate voltage to reduce to half the normat value (850 to 500/550 volts) and readjust the neutrodining on 28 Mhz. The output was over 50 watts, and the 599 twin stayed in service at the summer shack until 1998 when we sold it.
Just hope that will help you!
73 Marinus good day!
F5UL, Bob

[Non-text portions of this message have been removed]

22623. Re: Has anyone has experience with single 6146B operation in the finals?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-30 04:36:23 UTC
From: loewensteijn@rocketmail.com
Topic: 22605 Message: 22623

--- In TS-520_820_530_830@yahoogroups.com, Sulaiman Abdullah <sulabd@...> wrote:
>
>
> Running with only one 6146/2001 I think is mentioned in the manual for lower power license operators, originally a kit was available, it allowed the single heater to work .(normally the heaters are in series). I think that is the only requirement.

Many thanks for this remark: I did find the note mentioning this.

Not knowing what is in the "low cost plug in module" (I think a dropping resistor between pin 2 and 7 for the heater voltage) has me researching another solution.

Basically some hams have resorted to using two 6883B's in parallel and wired the heaters in parallel rather than in series.

In order to make an "simple reversible" solution one may use a plug that for one tube which shorts pin 2 & 7 and put in the other socket a 6338B. The rest can be left the same but I am a bit wary about the reduced load raising the plate and screen voltages.

Please comment on this solution, what do the learned members of this group think of this approach?

Many thanks in advance, Marinus, ZL2ML

22624. Re: TS-520 No transmit after a faulty vfo connector.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-30 12:21:58 UTC
From: radio165
Topic: 22603 Message: 22624

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Mike,
>
> Check the position of the 520's FUNCTION switch. What position is it in?
>
> 73's
> Mike W5RKL
>
> If the function switch is in the VFO position, the VFO led goes out. If in the fix position then the fix led goes out. If the RIT is on then that led goes out also during tx. I am losing the 9 volts from the AVR board. So far I have found r22 on this board shows signs of severe heat damage and Q4 is getting hot even during RX. Still checking. I don't know if there is something shorted on this board or something elsewhere shorted and drawing it down. My 9 volts is still present on RX and reception is normal.

Thanks for your reply, MIke.

Mike (N8YOK)

>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "radio165" <radio165@> wrote:
> >
> > Hello folks,
> > I have had this TS-520 since 1984. It's been a good ole rig with very few problems. Now I have a problem. The rig was on as I was pulling it towards me on the bench to plug in or unplug something. I heard a snap come from the rear of the rig and the lamps flickered. I found that the shield in the VFO connector coming from the external VFO had broken free from it's pin and must have shorted on one of the others. This was repaired easily enough. But now I have RX but no TX. The VFO indicator on the dial goes out when the rig is keyed in any mode. This is also true when switched to the external VFO. I also tried with just the jumper between pins 8 and 9. The relay is energizing, the heaters are on and there is the 60mA idling current but no more.
> >
> > This might be an easy one for someone who is more familiar with the circuit. Seems no matter what the question, there's always someone in the group that has some suggestions Hopefully someone can point me in the right direction.
> >
> > Thanks
> > Mike Mackin
> > N8YOK
> >
>

22625. Re: Has anyone has experience with single 6146B operation in the finals?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-30 07:24:16 UTC
From: loewensteijn@rocketmail.com
Topic: 22605 Message: 22625

So as I did this substitution about 25 years ago on a 599 twin in order to use it on a portable station, the only thing I remember for sure is the fact that I did not had any problem with the substitution. Just the polar grid to change (-48 to -15), the plate voltage to reduce to half the normat value (850 to 500/550 volts) and readjust the neutrodining on 28 Mhz. The output was over 50 watts, and the 599 twin stayed in service at the summer shack until 1998 when we sold it.
> Just hope that will help you!
> 73 Marinus good day!
> F5UL, Bob

Bob, yes this is of help. It does require a bit of surgery on the rig, the bias and plate -should- not give too much problems but I see that also the screen voltage has to be dropped from 200 to 125. This means a bit more work than one would call "reversible in a pinch". At this moment I am contemplating the single 6883B solution since that should be almost a plug and away-you-are solution (I do expect having to neutralize again) Am a bit concerned about high voltage in the single tube solution but have not investigated yet if I can do something about that.

73, Marinus, ZL2ML

22626. TS-830S CW filters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-30 16:40:01 UTC
From: aschichler
Topic: 22626 Message: 22626

I am in the process of buying a TS-830S, and I would like some info about the CW filters. I currently have a TS-530S (that I'm planning to sell) with a YK-88C 500 Hz CW filter installed in it. I was wondering if it would be worthwhile to remove the filter and put it in the TS-830S, or is the selectivity narrow enough for CW with the variable bandwidth available without any optional filters?
The specs I found online say the variable selectivity goes down to 500 Hz without any filters. Maybe the YK-88C would have a steeper bandpass shape?

Thanks for any info,
Al, WA2AS

22627. Re: Has anyone has experience with single 6146B operation in the finals?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-30 16:00:27 UTC
From: loewensteijn@rocketmail.com
Topic: 22605 Message: 22627

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce <gordon@...> wrote:

>
> Is this to get 50W output?

Gordon, only just now did I realise I had not replied to your question, apologies.

I am not fussed about the maximum output, far more interested in longlivety of the rig and its tubes.

IMHO the transformer is underrated and the voltages are too high for continious duty (e.g. PSK-31). It's OK for casual SSB without voice compression.

I've got another transmitter and it has three transformers, each the size of the Kenwood one, and that runs only two 6146's (not B's) in the output.....

73, Marinus, ZL2ML

22628. Re: TS-520 No transmit after a faulty vfo connector.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-30 18:52:54 UTC
From: w5rkl
Topic: 22603 Message: 22628

Mike,

Q4 will normally operate "warm" but not "hot". Q4 is the current regulator for the 9VDC supply.

If R22 (180 ohms) shows signs of overheating, replace it. I also would replace Q4 as well alone with D1 (WZ-061 6.1 volt 500ma zener).

I replaced both components in my 820's 9VDC supply. The 820 uses the same circuit except Q4 is a 2SA496Y as a current regulator. I suspect a 2SA496Y will work as a replacement for the 2SA606L. You can find the 2SA496Y at the following website for $1.00 (minimum order of $25):

http://www.electronicsurplus.com/ccp78762-to-220-pnp-transistor-2sa496-y-13844.htm

Check C8, 47ufd 10VDC electrolytic capacitors, it may be shorted. If it is, I recommend increasing the voltage rating of the replacement capacitor to 25VDC. The original voltage rating of C8 does not provide an acceptable safety margin in a 9VDC supply, especially with the age of the 520.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "radio165" <radio165@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Mike,
> >
> > Check the position of the 520's FUNCTION switch. What position is it in?
> >
> > 73's
> > Mike W5RKL
> >
> > If the function switch is in the VFO position, the VFO led goes out. If in the fix position then the fix led goes out. If the RIT is on then that led goes out also during tx. I am losing the 9 volts from the AVR board. So far I have found r22 on this board shows signs of severe heat damage and Q4 is getting hot even during RX. Still checking. I don't know if there is something shorted on this board or something elsewhere shorted and drawing it down. My 9 volts is still present on RX and reception is normal.
> >
> > Thanks for your reply, MIke.
> >
> > Mike (N8YOK)
> >
> > >
> > >

> >
> > --- In TS-520_820_530_830@yahoogroups.com, "radio165" <radio165@> wrote:
> > >
> > > Hello folks,
> > > I have had this TS-520 since 1984. It's been a good ole rig with very few problems. Now I have a problem. The rig was on as I was pulling it towards me on the bench to plug in or unplug something. I heard a snap come from the rear of the rig and the lamps flickered. I found that the shield in the VFO connector coming from the external VFO had broken free from it's pin and must have shorted on one of the others. This was repaired easily enough. But now I have RX but no TX. The VFO indicator on the dial goes out when the rig is keyed in any mode. This is also true when switched to the external VFO. I also tried with just the jumper between pins 8 and 9. The relay is energizing, the heaters are on and there is the 60mA idling current but no more.
> > >
> > > This might be an easy one for someone who is more familiar with the circuit. Seems no matter what the question, there's always someone in the group that has some suggestions Hopefully someone can point me in the right direction.
> > >
> > > Thanks
> > > Mike Mackin
> > > N8YOK
> > >
> >
>

22629. TS830S - no output after replacing finals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-30 19:48:54 UTC
From: n1326e
Topic: 22629 Message: 22629

I've had this faithful friend for about 20 yrs and have been inactive on HF for the last 3 yrs. Recently, after firing it up into a dummy load, I saw no output power (never replaced any of the tubes)so decided to replace the driver and both finals to 6146W's. I still see no output power on any band (modified to transmit WARC many years ago). I do have good ALC indication on all BUT 7,18,29,29.5 band positions. I've cleaned the entire band selector switch, but no help.

My radio has never been kicked around,is very clean (non smoking) and never been mobile. Any ideas on where to start looking?

Thanks,
Tom
WB3JHP

22630. RE: [TS-520_820_530_830] TS830S - no output after replacing finals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-30 20:04:32 UTC
From: Greg Anders
Topic: 22629 Message: 22630

When you key the final,

1. Keying with a mic PTT in SSB do you have idle current on the finals?

2. Do you draw any plate current when peaking the driver in CW?

3. You didn't accidentally turn off the screen supply switch did you?

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n1326e
Sent: Wednesday, September 30, 2009 12:49 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS830S - no output after replacing finals

I've had this faithful friend for about 20 yrs and have been inactive on HF for the last 3 yrs. Recently, after firing it up into a dummy load, I saw no output power (never replaced any of the tubes)so decided to replace the driver and both finals to 6146W's. I still see no output power on any band (modified to transmit WARC many years ago). I do have good ALC indication on all BUT 7,18,29,29.5 band positions. I've cleaned the entire band selector switch, but no help.

My radio has never been kicked around,is very clean (non smoking) and never been mobile. Any ideas on where to start looking?

Thanks,
Tom
WB3JHP

[Non-text portions of this message have been removed]

22631. Re: Has anyone has experience with single 6146B operation in the finals?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-30 20:12:23 UTC
From: james27613
Topic: 22605 Message: 22631

Hi,

I acquired a used 520 that also had the controls tight and
difficult to rotate.

I used a few drops of TriFlow lube into the bearing and let the
radio sit overnight on the side, this corrected the problem
and the controls are smooth as if the radio was new.

http://www.triflowlubricants.com/Tri-Flow_Pin_Point_Lubricant.html

73 james ke4drn

> >
> > Just obtained a TS-520 in a sorry (external) state. Plate tuning cap is locked solid, load capacitor can only be turned with force. Fortunately internally no rust to be seen.

22632. Re: [TS-520_820_530_830] Re: Thanks

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-30 20:57:44 UTC
From: Shauney@btinternet
Topic: 70 Message: 22632

Thanks mike for the info,ive in fact adjusted vr1 vr2 on the generator unit,which i believe to be the balanced modudulator, and processor..Its the ts 520se,will i need an rf vtm now?
73s Shaun
--- On Wed, 30/9/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: Thanks
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, 30 September, 2009, 1:18 AM

Hello Shaun,

If you adjusted VR2 on the RF UNIT board, you need to readjust VR2's setting so the voltage on T4's secondary center tap, in receive with the antenna disconnected, will be -3.5VDC.

Once the receive no-signal voltage is set to -3.5VDC and without changing VR2's setting, placing the 830 in transmit without RF output, the voltage at T4's secondary center tap should change to +1.3VDC.

You should also adjust VR1 so the voltage at the junction of one side of VR1 and C57 plus the junction of VR1's other side and C58 should be 2.5VDC in receive in both places. Adjusting VR1 should result in the voltage being the same at both places. Remember, the "2.5VDC" is in "receive" with no incoming signal applied to the antenna (remove the antenna). Without changing VR1's setting, placing the 830 in transmit, the voltages at both junctions should rise to +6.2VDC.

To see these voltages, download the high resolution schematic of the TS-830 at N6WK's website:

http://www.n6wk. com/kenwood/

Here's the link on N6WK's website for the high resolution schematic:

http://www.n6wk. com/kenwood/ TS-830S-excellen t%20schematic. pdf

73's
Mike W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, "Shauney@... " <shaun.townsend@ ...> wrote:
>
> Hi Mike,
> It worked signals all good,very sensitive sounds great,for some reason i tried adjusting vr1 and 2 next to the antenna and mixer driver coils and not the ones on the i.f board.Not sure why the bias is alternating wth the alc drive only slightly though and not all the time.
> Thanks again Mike 73s
>
> --- On Wed, 23/9/09, w5rkl <w5rkl@...> wrote:

>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_ 530_830] Re: Thanks
> To: TS-520_820_530_ 830@yahoogroups. com
> Date: Wednesday, 23 September, 2009, 9:26 PM
>
>
>
>
>
>
> Hello Shaun,
>
> Glad to hear your 830 is working great. Always good to hear these responses.
>
> I must say I am not aware of a modification for the receiver's RF amplifier in the 520SE. It may be a subsitute for the Japanese transistor. Some of the original transistors used by Kenwood are very difficult to find if one can find them at all. Substitutions are common which may not be the same transistor as the original.
>
> You can use the Marker to set the S meter. I use 80 meters and connect a dummy load to the antenna SO-239 on the rear of the transceiver. The dummy load provides a 50 ohm load to the transceiver.
>
> Set the 520SE on 80 meters, tune to 3.700, and then adjust the S meter zero pot for a zero no-signal meter indication. Once that is accomplished, turn the Marker ON and tune the VFO for maximum S meter indication. Adjust the DRIVE control, again for maximum S meter indication. If the S meter is below S9, adjust the S meter gain pot for an S9 reading.
>
> I have used this method for quite some time now and it works well for me. I compare the adjustments with my Yaesu FT-757 (receive preamp turned OFF on the 757) and it's quite close.
>
> 73's
> Mike W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com, "shaun3416" <shaun.townsend@ ...> wrote:
> >
> > Hi it was sometime last year i had a problem with my ts830 ip reading over the 225ma when tuned.Its was indeed the four cathode bias resistors,thanks to w5rkl,ke5put, n6wk and every one else who gave input on the matter.Well now ive got a really nice 830s 100 watts on every band even 10 metres.really pleased.
> > My next question for the group is about a ts520se,only owned it for a week or so and found the s-metre sensitivity not so good.Ive read the manaul and looks like i need a signal generator its a couple of s points down and only a s7 with the cal-25.Also its had a 6,6 mosfet fitted in q3 rf amp,could any body tell me about this mod.
> >
> > Regards Shaun
> >

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> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

22633. Re: Has anyone has experience with single 6146B operation in the finals?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-30 20:41:17 UTC
From: loewensteijn@rocketmail.com
Topic: 22605 Message: 22633

> I acquired a used 520 that also had the controls tight and
> difficult to rotate.
>
> I used a few drops of TriFlow lube into the bearing and let the
> radio sit overnight on the side, this corrected the problem
> and the controls are smooth as if the radio was new.
>
> http://www.triflowlubricants.com/Tri-Flow_Pin_Point_Lubricant.html
>
> 73 james ke4drn

James,

Thanks for this suggestion, cannot get the pin-point locally but I can get the 59ml (2 Oz) bottle. I'll get some later today, hopefully I will not have to pull it apart any more.

73, Marinus, ZL2ML

22634. VFO-520/VFO-820 Differences and the Interface cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-30 22:09:56 UTC
From: jmcgsd
Topic: 22634 Message: 22634

I have a VFO-520 at the moment,and have located a VFO-820. I have a couple of questions:
1. What are the differences between these VFOs?
2. The VFO-820 has no interface cable. It appears to be the same as my VFO-520, but I want to keep that cable with the 520. Any idea where to obtain the 9-pin connectors needed to make a cable?

Thanks and 73.
Joe
AF6NI

22635. Re: Has anyone has experience with single 6146B operation in the finals?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-09-30 22:18:24 UTC
From: leonard
Topic: 22605 Message: 22635

When I owned a TS-520S I fitted a "half-power" switch. It removed the voltage from and grounded one of the screen-grids thereby disabling one valve. It worked absolutely fine and gave no problems at all.
73,Len, G3XXQ.

22636. Re: VFO-520/VFO-820 Differences and the Interface cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-01 02:17:07 UTC
From: w5rkl
Topic: 22634 Message: 22636

Hello Joe,

The differences between the two VFO is cosmetic/cabinet/dial designed, nothing more.

A VFO-520 will plug into and work with a TS-820 and vice verse, a VFO-820 will plug into and work with a TS-520/520S/520SE. No modifications required to either VFO.

Sorry, I have no idea where to find the 9 pin plugs. The cable itself is pin for pin, 1 to 1, 2 to 2, etc. No jumper/cross overs at either end.

73's
Mike W5RKL

22637. Re: Has anyone has experience with single 6146B operation in the finals?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-01 09:42:03 UTC
From: tejohnsonphd
Topic: 22605 Message: 22637

There are instructions in the manual on how to run the TS520 at novice power levels.
Regards,
Thomas AH6MQ/HS0ZDF
--- In TS-520_820_530_830@yahoogroups.com, "leonard" <internurd@...> wrote:
>
> When I owned a TS-520S I fitted a "half-power" switch. It removed the voltage from and grounded one of the screen-grids thereby disabling one valve. It worked absolutely fine
> and gave no problems at all.
> 73,Len, G3XXQ.
>

22638. 9 Pin Plugs - Re: VFO-520/VFO-820 Differences and the Interface cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-01 05:06:04 UTC
From: vk2hhs
Topic: 22634 Message: 22638

Now I know this is probably of no practical use whatsoever but I bought several of these plugs when I was in Japan about a year and a half ago. I can probably even point you to almost exactly to the shop you need to go to in Akihabara!

At least they are available somewhere, even if not in your local area and are not made of "unobtainium"!

If the worst comes to the worst, consider retrofitting your VFOs with 9 Pin DIN sockets and then using your one "good" lead to make two leads with 9 Pin DIN plugs on one end???

de VK2HHS

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello Joe,
>
> The differences between the two VFO is cosmetic/cabinet/dial designed, nothing more.
>
> A VFO-520 will plug into and work with a TS-820 and vice verse, a VFO-820 will plug into and work with a TS-520/520S/520SE. No modifications required to either VFO.
>
> Sorry, I have no idea where to find the 9 pin plugs. The cable itself is pin for pin, 1 to 1, 2 to 2, etc. No jumper/cross overs at either end.
>
> 73's
> Mike W5RKL
>

22639. Crystals for Kenwood hybrids

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-01 16:06:59 UTC
From: leonarddxn
Topic: 22639 Message: 22639

Looking for a supplier of one-off crystals for fix-channel operation
in these radios.(5mhz range, HC-50u). Found one in UK (Quartslab) but they have a minimum charge of £21.38.
73, Len, G3XXQ, Newcastle, England.

22640. Re: TS830S - no output after replacing finals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-01 16:55:01 UTC
From: n1326e
Topic: 22629 Message: 22640

Greg,

Many thanks for your reply.

Here are the test results:

1. Meter SW = IP
Mode = SSB
Send/Rec = Send
Mc50 - PTT depressed
Meter indicating 62 Ma
also indicating 62 Ma when PTT not depressed

2. Meter SW = IP
Mode = CW
Send/Rec=Send
Key = Down
Meter indicating 98 Ma
When Key = up Meter reading = 70Ma

3. SG switch = ON

Again, thanks for any help you may be able to provide.

73
Tom

<greg.anders@...> wrote:
>
> When you key the final,
>
>
> 1. Keying with a mic PTT in SSB do you have idle current on the finals?
>
> 2. Do you draw any plate current when peaking the driver in CW?
>
> 3. You didn't accidentally turn off the screen supply switch did you?
>
> Greg
> KG6YV

> To: TS-520_820_530_830@yahoogroups.com
> Subject: no output after replacing finals
>
> I've had this faithful friend for about 20 yrs and have been inactive on HF for the last 3 yrs. Recently, after firing it up into a dummy load, I saw no output power (never replaced any of the tubes)so decided to replace the driver and both finals to 6146W's. I

still see no output power on any band (modified to transmit WARC many years ago). I do have good ALC indication on all BUT 7,18,29,29.5 band positions. I've cleaned the entire band selector switch, but no help.

<snip>
> Thanks,
> Tom
> WB3JHP

22641. RE: [TS-520_820_530_830] Re: TS830S - no output after replacing finals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-01 17:47:02 UTC
From: Greg Anders
Topic: 22629 Message: 22641

Did this radio ever work correctly? If not, then having bad finals was not your only problem.

Does the radio work in the receive mode?

If so, and you push the PTT switch in sideband mode you are seeing approximately the correct quiescent plate current (~60ma).

The indication of 98ma in CW mode with the key depressed indicates little or no drive to the finals. Beyond that I cannot hazard to guess where the transmit circuits are not producing drive. It can be anything from the balanced modulator to the driver. If the receiver does not work as well, then it could be anything including the Oscillator/mixer circuits.

If you have test equipment and some one locally who knows how to troubleshoot that would be your best bet. Maybe you can contact a local club and find someone with experience fixing transceivers of this vintage.

Greg
KG6YV
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n1326e
Sent: Thursday, October 01, 2009 9:55 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS830S - no output after replacing finals

Greg,

Many thanks for your reply.

Here are the test results:

1. Meter SW = IP
Mode = SSB
Send/Rec = Send
Mc50 - PTT depressed
Meter indicating 62 Ma
also indicating 62 Ma when PTT not depressed

2. Meter SW = IP
Mode = CW
Send/Rec=Send
Key = Down
Meter indicating 98 Ma
When Key = up Meter reading = 70Ma

3. SG switch = ON

Again, thanks for any help you may be able to provide.

73
Tom

<greg.anders@...> wrote:
>
> When you key the final,
>
>
> 1. Keying with a mic PTT in SSB do you have idle current on the finals?
>
> 2. Do you draw any plate current when peaking the driver in CW?
>
> 3. You didn't accidentally turn off the screen supply switch did you?
>
> Greg
> KG6YV

> To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> Subject: no output after replacing finals
>
> I've had this faithful friend for about 20 yrs and have been inactive on HF for the last 3 yrs. Recently, after firing it up into a dummy load, I saw no output power (never replaced any of the tubes)so decided to replace the driver and both finals to 6146W's. I still see no output power on any band (modified to transmit WARC many years ago). I do have good ALC indication on all BUT 7,18,29,29.5 band positions. I've cleaned the entire band selector switch, but no help.

<snip>
> Thanks,
> Tom
> WB3JHP

[Non-text portions of this message have been removed]

22642. Re: [TS-520_820_530_830] Crystals for Kenwood hybrids

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-01 18:10:42 UTC
From: probe
Topic: 22639 Message: 22642

Try this guy in Michigan:
https://www.imsites.com/secure_kenselectronics/orderdesk.html

Steve B, wz7e

----- Original Message -----
From: leonarddxn
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, October 01, 2009 9:06 AM
Subject: [TS-520_820_530_830] Crystals for Kenwood hybrids

Looking for a supplier of one-off crystals for fix-channel operation
in these radios.(5mhz range, HC-50u). Found one in UK (Quartslab) but they have a minimum charge of £21.38.
73, Len, G3XXQ, Newcastle, England.

[Non-text portions of this message have been removed]

22643. Re: [TS-520_820_530_830] Re: TS830S - no output after replacing finals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-01 18:35:11 UTC
From: Daniel TOESCA
Topic: 22629 Message: 22643

Should be able to get some ALC reading in CW, at least on 80 - either with
SG switch On or OFF !!!!!!!!! This will show the transmit channel up to the
driver is good - 73's - Daniel, ON5PY

2009/10/1, Greg Anders <greg.anders@...>:
>
>
>
> Did this radio ever work correctly? If not, then having bad finals was not
> your only problem.
>
> Does the radio work in the receive mode?
>
> If so, and you push the PTT switch in sideband mode you are seeing
> approximately the correct quiescent plate current (~60ma).
>
> The indication of 98ma in CW mode with the key depressed indicates little
> or no drive to the finals. Beyond that I cannot hazard to guess where the
> transmit circuits are not producing drive. It can be anything from the
> balanced modulator to the driver. If the receiver does not work as well,
> then it could be anything including the Oscillator/mixer circuits.
>
> If you have test equipment and some one locally who knows how to
> troubleshoot that would be your best bet. Maybe you can contact a local club
> and find someone with experience fixing transceivers of this vintage.
>
> Greg
> KG6YV
> From: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>[mailto:
> TS-520_820_530_830@yahoogroups.com <TS-520_820_530_830%40yahoogroups.com>]
> On Behalf Of n1326e
> Sent: Thursday, October 01, 2009 9:55 AM
> To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> Subject: [TS-520_820_530_830] Re: TS830S - no output after replacing finals
>
>
>
> Greg,
>
> Many thanks for your reply.
>
> Here are the test results:
>
> 1. Meter SW = IP
> Mode = SSB
> Send/Rec = Send

> Mc50 - PTT depressed
> Meter indicating 62 Ma
> also indicating 62 Ma when PTT not depressed
>
> 2. Meter SW = IP
> Mode = CW
> Send/Rec=Send
> Key = Down
> Meter indicating 98 Ma
> When Key = up Meter reading = 70Ma
>
> 3. SG switch = ON
>
> Again, thanks for any help you may be able to provide.
>
> 73
> Tom
>
> <greg.anders@...> wrote:
> >
> > When you key the final,
> >
> >
> > 1. Keying with a mic PTT in SSB do you have idle current on the finals?
> >
> > 2. Do you draw any plate current when peaking the driver in CW?
> >
> > 3. You didn't accidentally turn off the screen supply switch did you?
> >
> > Greg
> > KG6YV
> ----------
> > To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com<TS-520_820_530_830%2540yahoogroups.com>
> >
> > Subject: no output after replacing finals
> >
> > I've had this faithful friend for about 20 yrs and have been inactive on
> HF for the last 3 yrs. Recently, after firing it up into a dummy load, I saw
> no output power (never replaced any of the tubes)so decided to replace the
> driver and both finals to 6146W's. I still see no output power on any band
> (modified to transmit WARC many years ago). I do have good ALC indication on
> all BUT 7,18,29,29.5 band positions. I've cleaned the entire band selector
> switch, but no help.
>
> <snip>
> > Thanks,
> > Tom
> > WB3JHP
>

> [Non-text portions of this message have been removed]
>
>
>

[Non-text portions of this message have been removed]

22644. Re: TS830S - no output after replacing finals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-01 19:34:41 UTC
From: w5rkl
Topic: 22629 Message: 22644

Hello Tom,

First, the meter cannot and will not indicate anything other than the level of incoming signal in receive. RL1 on the AF UNIT prevents the meter from displaying any readings other than S Units in receive. Therefore, it's impossible to indicate ALC, IP, RF, and HV meter readings in receive, regardless of the meter switch position.

Check the RF gain control, it may be set a bit less than full clockwise setting.

I suspect your 830 is dirty and needs a good cleaning. Just cleaning the band switch is not enough especially since the 830 has sat for 3 years.

The PLL UNIT and the COUNTER ASSEMBLY both have 2 internal boards inside their metal enclosures. The boards connect to each other through a set of fixed pins inside the metal enclosures. If these pins get dirty/corroded the PLL UNIT and/or the COUNTER ASSEMBLY will not work properly.

Each board has a number of wiring harness plugs and the plugs and pins also get dirty.

So, thoroughly clean the 830 and test for operation on all bands.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "n1326e" <mtnest@...> wrote:
>
> Greg,
>
> Many thanks for your reply.
>
> Here are the test results:
>
> 1. Meter SW = IP
> Mode = SSB
> Send/Rec = Send
> Mc50 - PTT depressed
> Meter indicating 62 Ma
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>
> 2. Meter SW = IP
> Mode = CW
> Send/Rec=Send
> Key = Down
> Meter indicating 98 Ma
> When Key = up Meter reading = 70Ma
>
> 3. SG switch = ON

>
> Again, thanks for any help you may be able to provide.
>
> 73
> Tom
>
>
>
>
> <greg.anders@> wrote:
> >
> > When you key the final,
> >
> >
> > 1. Keying with a mic PTT in SSB do you have idle current on the finals?
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> >
> > Greg
> > KG6YV
> ---
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: no output after replacing finals
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> > I've had this faithful friend for about 20 yrs and have been inactive on HF for the last 3 yrs. Recently, after firing it up into a dummy load, I saw no output power (never replaced any of the tubes)so decided to replace the driver and both finals to 6146W's. I still see no output power on any band (modified to transmit WARC many years ago). I do have good ALC indication on all BUT 7,18,29,29.5 band positions. I've cleaned the entire band selector switch, but no help.
>
> <snip>
> > Thanks,
> > Tom
> > WB3JHP
>

22645. Re: TS830S - no output after replacing finals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-01 21:22:41 UTC
From: n1326e
Topic: 22629 Message: 22645

Daniel,

Thanks for the info...

Tom
WB3JHP

--- In TS-520_820_530_830@yahoogroups.com, Daniel TOESCA <ON5PY1967@...> wrote:
>
> Should be able to get some ALC reading in CW, at least on 80 - either with
> SG switch On or OFF !!!!!!!!! This will show the transmit channel up to the
> driver is good - 73's - Daniel, ON5PY
>
>
> 2009/10/1, Greg Anders <greg.anders@...>:
> >
> >
> >
> > Did this radio ever work correctly? If not, then having bad finals was not
> > your only problem.
> >
> > Does the radio work in the receive mode?
> >
> > If so, and you push the PTT switch in sideband mode you are seeing
> > approximately the correct quiescent plate current (~60ma).
> >
> > The indication of 98ma in CW mode with the key depressed indicates little
> > or no drive to the finals. Beyond that I cannot hazard to guess where the
> > transmit circuits are not producing drive. It can be anything from the
> > balanced modulator to the driver. If the receiver does not work as well,
> > then it could be anything including the Oscillator/mixer circuits.
> >
> > If you have test equipment and some one locally who knows how to
> > troubleshoot that would be your best bet. Maybe you can contact a local club
> > and find someone with experience fixing transceivers of this vintage.
> >
> > Greg
> > KG6YV
> > From: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>[mailto:
> > TS-520_820_530_830@yahoogroups.com <TS-520_820_530_830%40yahoogroups.com>]
> > On Behalf Of n1326e
> > Sent: Thursday, October 01, 2009 9:55 AM
> > To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> > Subject: [TS-520_820_530_830] Re: TS830S - no output after replacing finals
> >
> >

> > Greg,
> >
> > Many thanks for your reply.
> >
> > Here are the test results:
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> > Send/Rec=Send
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> > 3. SG switch = ON
> >
> > Again, thanks for any help you may be able to provide.
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> > 73
> > Tom
> >
> > <greg.anders@> wrote:
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> > > 1. Keying with a mic PTT in SSB do you have idle current on the finals?
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> > > Greg
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> > ---
> > > To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> > <mailto:TS-520_820_530_830%40yahoogroups.com<TS-520_820_530_830%2540yahoogroups.com>
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> > > Subject: no output after replacing finals
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> > HF for the last 3 yrs. Recently, after firing it up into a dummy load, I saw
> > no output power (never replaced any of the tubes)so decided to replace the
> > driver and both finals to 6146W's. I still see no output power on any band

> > (modified to transmit WARC many years ago). I do have good ALC indication on
> > all BUT 7,18,29,29.5 band positions. I've cleaned the entire band selector
> > switch, but no help.
> >
> > <snip>
> > > Thanks,
> > > Tom
> > > WB3JHP
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
>
>
> [Non-text portions of this message have been removed]
>

22646. Re: TS830S - no output after replacing finals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-01 21:20:06 UTC
From: n1326e
Topic: 22629 Message: 22646

Greg,

Oh yes, this radio has worked for me for many years, WAS, WAC and many DX stations over the years.

Also, the radio seems to work fine on RX mode on all bands.

Thanks again for your help.

Tom

Greg Anders <greg.anders@...> wrote:
>
> Did this radio ever work correctly? If not, then having bad finals was not your only problem.
>
> Does the radio work in the receive mode?
>
> If so, and you push the PTT switch in sideband mode you are seeing approximately the correct quiescent plate current (~60ma).
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> The indication of 98ma in CW mode with the key depressed indicates little or no drive to the finals. Beyond that I cannot hazard to guess where the transmit circuits are not producing drive. It can be anything from the balanced modulator to the driver. If the receiver does not work as well, then it could be anything including the Oscillator/mixer circuits.
>
> If you have test equipment and some one locally who knows how to troubleshoot that would be your best bet. Maybe you can contact a local club and find someone with experience fixing transceivers of this vintage.
>
> Greg
> KG6YV
----------------------------------->
>
>
> Greg,
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> Many thanks for your reply.
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> Mode = SSB
> Send/Rec = Send
> Mc50 - PTT depressed

> Meter indicating 62 Ma
> also indicating 62 Ma when PTT not depressed
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> 2. Meter SW = IP
> Mode = CW
> Send/Rec=Send
> Key = Down
> Meter indicating 98 Ma
> When Key = up Meter reading = 70Ma
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> 3. SG switch = ON
>
> Again, thanks for any help you may be able to provide.
>
> 73
> Tom
>
> <greg.anders@> wrote:
> >
> > When you key the final,
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> > Greg
> > KG6YV
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> > Subject: no output after replacing finals
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> > I've had this faithful friend for about 20 yrs and have been inactive on HF for the last 3 yrs. Recently, after firing it up into a dummy load, I saw no output power (never replaced any of the tubes)so decided to replace the driver and both finals to 6146W's. I still see no output power on any band (modified to transmit WARC many years ago). I do have good ALC indication on all BUT 7,18,29,29.5 band positions. I've cleaned the entire band selector switch, but no help.
>
> <snip>
> > Thanks,
> > Tom
> > WB3JHP

22647. RE: [TS-520_820_530_830] Re: TS830S - no output after replacing finals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-01 21:36:45 UTC
From: Greg Anders
Topic: 22629 Message: 22647

I would echo the comments someone else made regarding a complete "cleanup" before jumping to any troubleshooting extravaganza.

1. Remove, clean and reseat all connectors inside.

2. Clean bandswitch and mode switch with de-oxit (let the radio dry out well before applying power.

3. Loosen and re-tighten all screws holding the boards in place. You can be amazed how many are not tight and they make the groundplane contact work.

Gud luck, Kenwoods that go idle for sometime often have these issues.

Greg

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n1326e
Sent: Thursday, October 01, 2009 2:20 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS830S - no output after replacing finals

Greg,

Oh yes, this radio has worked for me for many years, WAS, WAC and many DX stations over the years.

Also, the radio seems to work fine on RX mode on all bands.

Thanks again for your help.

Tom

Greg Anders <greg.anders@...> wrote:
>
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> The indication of 98ma in CW mode with the key depressed indicates little or no drive to the finals. Beyond that I cannot hazard to guess where the transmit circuits are not producing drive. It can be anything from the balanced modulator to the driver. If the receiver does not work as well, then it could be anything including the Oscillator/mixer circuits.
>

> If you have test equipment and some one locally who knows how to troubleshoot that would be your best bet. Maybe you can contact a local club and find someone with experience fixing transceivers of this vintage.
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> Greg
> KG6YV
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> Greg,
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> Again, thanks for any help you may be able to provide.
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> 73
> Tom
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> <greg.anders@> wrote:
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> > When you key the final,
> >
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> > 1. Keying with a mic PTT in SSB do you have idle current on the finals?
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> >
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> >
> > Greg
> > KG6YV
> ----------

> > Subject: no output after replacing finals
> >
> > I've had this faithful friend for about 20 yrs and have been inactive on HF for the last 3 yrs. Recently, after firing it up into a dummy load, I saw no output power (never replaced any of the tubes)so decided to replace the driver and both finals to 6146W's. I still see no output power on any band (modified to transmit WARC many years ago). I do have good ALC indication on all BUT 7,18,29,29.5 band positions. I've cleaned the entire band selector switch, but no help.
>
> <snip>
> > Thanks,
> > Tom
> > WB3JHP

[Non-text portions of this message have been removed]

22648. Re: TS830S - no output after replacing finals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-01 21:47:55 UTC
From: n1326e
Topic: 22629 Message: 22648

Mike,

Good to hear from you. I've been watching this group for awhile and want to send my sincere thanks to you for helping others through your indepth knowledge of these Kenwood radios.

First I'll check the RF gain control position, don't remember what position it was in, AND....I have not cleaned the radio inside the areas you pointed out.....ever..... and didn't realize the PLL and Counter Assembly could be opened for cleaning. So, with your suggestion, I'm going to take this opportunity to open it up a bit more than cursury cleaning and clean those particular areas. It looks like I have my work cut out for me but it should be fun and a good learning experience.

Many thanks,
Tom
WB3JHP

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
>
>
> Hello Tom,
>
> First, the meter cannot and will not indicate anything other than the level of incoming signal in receive. RL1 on the AF UNIT prevents the meter from displaying any readings other than S Units in receive. Therefore, it's impossible to indicate ALC, IP, RF, and HV meter readings in receive, regardless of the meter switch position.
>
> Check the RF gain control, it may be set a bit less than full clockwise setting.
>
> I suspect your 830 is dirty and needs a good cleaning. Just cleaning the band switch is not enough especially since the 830 has sat for 3 years.
>
> The PLL UNIT and the COUNTER ASSEMBLY both have 2 internal boards inside their metal enclosures. The boards connect to each other through a set of fixed pins inside the metal enclosures. If these pins get dirty/corroded the PLL UNIT and/or the COUNTER ASSEMBLY will not work properly.
>
> Each board has a number of wiring harness plugs and the plugs and pins also get dirty.
>
> So, thoroughly clean the 830 and test for operation on all bands.
>
> 73's
> Mike W5RKL
>
>--
>

> --- In TS-520_820_530_830@yahoogroups.com, "n1326e" <mtnest@> wrote:
> >
> > Greg,
> >
> > Many thanks for your reply.
> >
> > Here are the test results:
> >
> > 1. Meter SW = IP
> > Mode = SSB
> > Send/Rec = Send
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> > Meter indicating 62 Ma
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> >
> > Again, thanks for any help you may be able to provide.
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> > 73
> > Tom

> > <greg.anders@> wrote:
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> > > 1. Keying with a mic PTT in SSB do you have idle current on the finals?
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> > > Greg
> > > KG6YV
> > ----------
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Subject: no output after replacing finals
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still see no output power on any band (modified to transmit WARC many years ago). I do have good ALC indication on all BUT 7,18,29,29.5 band positions. I've cleaned the entire band selector switch, but no help.
> >
> > <snip>
> > > Thanks,
> > > Tom
> > > WB3JHP
> >
>

22649. Re: TS830S - no output after replacing finals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-01 21:57:22 UTC
From: n1326e
Topic: 22629 Message: 22649

Greg,

Thanks for the words of encouragement and additional items, I'll add them to my list of things to do once I'm in there.

73
Tom

Greg Anders <greg.anders@...> wrote:
>
> I would echo the comments someone else made regarding a complete "cleanup" before jumping to any troubleshooting extravaganza.
>
>
> 1. Remove, clean and reseat all connectors inside.
>
> 2. Clean bandswitch and mode switch with de-oxit (let the radio dry out well before applying power.
>
> 3. Loosen and re-tighten all screws holding the boards in place. You can be amazed how many are not tight and they make the groundplane contact work.
>
> Gud luck, Kenwoods that go idle for sometime often have these issues.
>
> Greg
>

Re: TS830S - no output after replacing finals

> Greg,
>
> Oh yes, this radio has worked for me for many years, WAS, WAC and many DX stations over the years.
>
> Also, the radio seems to work fine on RX mode on all bands.
>
> Thanks again for your help.
>
> Tom
>
> Greg Anders <greg.anders@> wrote:
> >
> > Did this radio ever work correctly? If not, then having bad finals was not your only problem.
> >
> > Does the radio work in the receive mode?

> >
> > If so, and you push the PTT switch in sideband mode you are seeing approximately the correct quiescent plate current (~60ma).
> >
> > The indication of 98ma in CW mode with the key depressed indicates little or no drive to the finals. Beyond that I cannot hazard to guess where the transmit circuits are not producing drive. It can be anything from the balanced modulator to the driver. If the receiver does not work as well, then it could be anything including the Oscillator/mixer circuits.
> >
> > If you have test equipment and some one locally who knows how to troubleshoot that would be your best bet. Maybe you can contact a local club and find someone with experience fixing transceivers of this vintage.
> >
> > Greg
> > KG6YV
> ----------------------------------->
> >
> >
> > Greg,
> >
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> > Again, thanks for any help you may be able to provide.
> >
> > 73
> > Tom
> >
> > <greg.anders@> wrote:
> > >
> > > When you key the final,
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> > > Greg
> > > KG6YV
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> > > Subject: no output after replacing finals
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> >
> > <snip>
> > > Thanks,
> > > Tom
> > > WB3JHP
>
>
>
> [Non-text portions of this message have been removed]
>

22650. Re: TS830S - no output after replacing finals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-01 21:31:23 UTC
From: loewensteijn@rocketmail.com
Topic: 22629 Message: 22650

Perhaps a bad capacitor in the driver stage ?

Marinus, Zl2ML (restoring / enhancing preloved TS-520)

--- In TS-520_820_530_830@yahoogroups.com, "n1326e" <mtnest@...> wrote:
>
> Greg,
>
> Oh yes, this radio has worked for me for many years, WAS, WAC and many DX stations over the years.
>
> Also, the radio seems to work fine on RX mode on all bands.
>
> Thanks again for your help.
>
> Tom
>
> Greg Anders <greg.anders@> wrote:
> >
> > Did this radio ever work correctly? If not, then having bad finals was not your only problem.
> >
> > Does the radio work in the receive mode?
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> > If so, and you push the PTT switch in sideband mode you are seeing approximately the correct quiescent plate current (~60ma).
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> > The indication of 98ma in CW mode with the key depressed indicates little or no drive to the finals. Beyond that I cannot hazard to guess where the transmit circuits are not producing drive. It can be anything from the balanced modulator to the driver. If the receiver does not work as well, then it could be anything including the Oscillator/mixer circuits.
> >
> > If you have test equipment and some one locally who knows how to troubleshoot that would be your best bet. Maybe you can contact a local club and find someone with experience fixing transceivers of this vintage.
> >
> > Greg
> > KG6YV
> ------------------------------------>

22651. VFO-520 Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-01 22:44:48 UTC
From: VE3FMC
Topic: 22651 Message: 22651

Hello Everyone

I am in need of the cable that connects the VFO-520 to a TS-520. Does anyone have one they would sell?

Or tell me where I might be able to purchase one?

Thanks
73, Rick VE3FMC

22652. Re: [TS-520_820_530_830] Re: TS830S - no output after replacing finals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-02 00:50:21 UTC
From: John Davidson
Topic: 22629 Message: 22652

--- On Thu, 10/1/09, n1326e <mtnest@...> wrote:

From: n1326e <mtnest@...>
Subject: [TS-520_820_530_830] Re: TS830S - no output after replacing finals

1. Meter SW = IP
Mode = SSB
Send/Rec = Send
Mc50 - PTT depressed
Meter indicating 62 Ma
also indicating 62 Ma when PTT not depressed

Sure you will get TX mode with or without PTT sw when you have the send/rec switch in the send position,,,,it IS a ptt switch !

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Connect with others.
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[Non-text portions of this message have been removed]

22653. Re: [TS-520_820_530_830] Re: TS830S - no output after replacing finals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-02 00:55:52 UTC
From: John Davidson
Topic: 22629 Message: 22653

--- On Thu, 10/1/09, n1326e <mtnest@...> wrote:

From: n1326e <mtnest@...>
Subject: [TS-520_820_530_830] Re: TS830S - no output after replacing finals
To

Greg,

Many thanks for your reply.

Here are the test results:

1. Meter SW = IP
2. Meter SW = IP
Mode = CW
Send/Rec=Send
Key = Down
Meter indicating 98 Ma
When Key = up Meter reading = 70Ma

> WB3JHP

With the key down, does the IP change with the CAR control turned up/down, can you peak the reading by tuning the DRIVE control , Can you dip the IP by tuning the PLATE control? The increase of IP tells me that you may have some drive getting to the PA tubes grids.
Good Luck
JD

[Non-text portions of this message have been removed]

22654. Re: VFO-520 Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-02 02:23:10 UTC
From: jmcgsd
Topic: 22651 Message: 22654

This is the same question that I asked yesterday. I would even be happy if I could buy the connectors, but I sure can't find them anywhere on the Internet. If I EVER see them at a hamfest or swap meet, I'm gonna buy every one in site!

Good luck with this.

Joe
AF6NI

--- In TS-520_820_530_830@yahoogroups.com, "VE3FMC" <ve3fmc@...> wrote:
>
> Hello Everyone
>
> I am in need of the cable that connects the VFO-520 to a TS-520. Does anyone have one they would sell?
>
> Or tell me where I might be able to purchase one?
>
> Thanks
> 73, Rick VE3FMC
>

22655. TS-830S FAN LUBRICATION

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-02 12:45:35 UTC
From: Guido LW8EOQ
Topic: 22655 Message: 22655

Hello,

I would appreciate any comments regarding possibility of using WD40 for TS-830S fan lubrication. Is it ok? Or maybe, there is other kind of lubricant / oil that could perform better its duty.

Thank you in advance for your kind assistance.

73 de
GUIDO, LW8EOQ
Argentina

22656. Re: TS-830S FAN LUBRICATION

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-02 12:57:27 UTC
From: sv0xbq
Topic: 22655 Message: 22656

Hi Guido,

WD40 will evaporate and leave you with a thicker oil than when it comes out of the can. May be better to use a sewing machine oil.

73
Chris SV0XBQ/9

--- In TS-520_820_530_830@yahoogroups.com, "Guido LW8EOQ" <gperazzoli@...> wrote:
>
> Hello,
>
> I would appreciate any comments regarding possibility of using WD40 for TS-830S fan lubrication. Is it ok? Or maybe, there is other kind of lubricant / oil that could perform better its duty.
>
> Thank you in advance for your kind assistance.
>
> 73 de
> GUIDO, LW8EOQ
> Argentina
>

22657. Re: TS830S - no output after replacing finals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-02 12:59:43 UTC
From: w5rkl
Topic: 22629 Message: 22657

I confused your 830 with an 820.

The 830 PLL UNIT and COUNTER UNIT do not have 2 boards, only one each. The 830's PLL and COUNTER UNIT are connected to the wiring harness through various plugs so cleaning of the plugs and pins, checking all grounds including the board mounting screws, is important.

Sorry for confusing the 820 PLL UNIT and COUNTER UNIT enclosures with the 830. I still believe your problem is about dirty contacts.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "n1326e" <mtnest@...> wrote:
>
>
>
>
> Mike,
>
> Good to hear from you. I've been watching this group for awhile and want to send my sincere thanks to you for helping others through your indepth knowledge of these Kenwood radios.
>
> First I'll check the RF gain control position, don't remember what position it was in, AND....I have not cleaned the radio inside the areas you pointed out.....ever..... and didn't realize the PLL and Counter Assembly could be opened for cleaning. So, with your suggestion, I'm going to take this opportunity to open it up a bit more than cursury cleaning and clean those particular areas. It looks like I have my work cut out for me but it should be fun and a good learning experience.
>
> Many thanks,
> Tom
> WB3JHP
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> >
> >
> > Hello Tom,
> >
> > First, the meter cannot and will not indicate anything other than the level of incoming signal in receive. RL1 on the AF UNIT prevents the meter from displaying any readings other than S Units in receive. Therefore, it's impossible to indicate ALC, IP, RF, and HV meter readings in receive, regardless of the meter switch position.
> >

> > Check the RF gain control, it may be set a bit less than full clockwise setting.
> >
> > I suspect your 830 is dirty and needs a good cleaning. Just cleaning the band switch is not enough especially since the 830 has sat for 3 years.
> >
> > The PLL UNIT and the COUNTER ASSEMBLY both have 2 internal boards inside their metal enclosures. The boards connect to each other through a set of fixed pins inside the metal enclosures. If these pins get dirty/corroded the PLL UNIT and/or the COUNTER ASSEMBLY will not work properly.
> >
> > Each board has a number of wiring harness plugs and the plugs and pins also get dirty.
> >
> > So, thoroughly clean the 830 and test for operation on all bands.
> >
> > 73's
> > Mike W5RKL
> >
> >--
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "n1326e" <mtnest@> wrote:
> > >
> > > Greg,
> > >
> > > Many thanks for your reply.
> > >
> > > Here are the test results:
> > >
> > > 1. Meter SW = IP
> > > Mode = SSB
> > > Send/Rec = Send
> > > Mc50 - PTT depressed
> > > Meter indicating 62 Ma
> > > also indicating 62 Ma when PTT not depressed
> > >
> > > 2. Meter SW = IP
> > > Mode = CW
> > > Send/Rec=Send
> > > Key = Down
> > > Meter indicating 98 Ma
> > > When Key = up Meter reading = 70Ma
> > >
> > > 3. SG switch = ON
> > >
> > > Again, thanks for any help you may be able to provide.
> > >
> > > 73
> > > Tom
> --
>
> > > <greg.anders@> wrote:

> > > >
> > > > When you key the final,
> > > >
> > > >
> > > > 1. Keying with a mic PTT in SSB do you have idle current on the finals?
> > > >
> > > > 2. Do you draw any plate current when peaking the driver in CW?
> > > >
> > > > 3. You didn't accidentally turn off the screen supply switch did you?
> > > >
> > > > Greg
> > > > KG6YV
> > > ----------
> > > > To: TS-520_820_530_830@yahoogroups.com
> > > > Subject: no output after replacing finals
> > > >
> > > > I've had this faithful friend for about 20 yrs and have been inactive on HF for the last 3 yrs. Recently, after firing it up into a dummy load, I saw no output power (never replaced any of the tubes)so decided to replace the driver and both finals to 6146W's. I still see no output power on any band (modified to transmit WARC many years ago). I do have good ALC indication on all BUT 7,18,29,29.5 band positions. I've cleaned the entire band selector switch, but no help.
> > >
> > > <snip>
> > > > Thanks,
> > > > Tom
> > > > WB3JHP
> > >
> >
>

22658. RE: [TS-520_820_530_830] TS-830S FAN LUBRICATION

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-02 13:21:43 UTC
From: Kevin King
Topic: 22655 Message: 22658

WD40 is not a lubricant. It is a good cleaner and water displacement agent.
Machine oil such as 3in1, triflow, or just good old 5w30 motor oil is fine.

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Guido LW8EOQ
Sent: Friday, October 02, 2009 8:46 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS-830S FAN LUBRICATION

Hello,

I would appreciate any comments regarding possibility of using WD40 for
TS-830S fan lubrication. Is it ok? Or maybe, there is other kind of
lubricant / oil that could perform better its duty.

Thank you in advance for your kind assistance.

73 de
GUIDO, LW8EOQ
Argentina

Yahoo! Groups Links

22659. Re: TS-830S FAN LUBRICATION

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-02 14:56:05 UTC
From: Guido LW8EOQ
Topic: 22655 Message: 22659

Hello Chris and Kevin,

Thank you for your messages.

I've found some sewing machine oil (it says "multiuse", though) viscosity ISO VG 10.

I think I'm going to use it on the fan.

73 de
Guido, LW8EOQ
Argentina

--- In TS-520_820_530_830@yahoogroups.com, "Guido LW8EOQ" <gperazzoli@...> wrote:
>
> Hello,
>
> I would appreciate any comments regarding possibility of using WD40 for TS-830S fan lubrication. Is it ok? Or maybe, there is other kind of lubricant / oil that could perform better its duty.
>
> Thank you in advance for your kind assistance.
>
> 73 de
> GUIDO, LW8EOQ
> Argentina
>

22660. RE: [TS-520_820_530_830] Re: TS-830S FAN LUBRICATION

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-02 15:38:48 UTC
From: Kevin King
Topic: 22655 Message: 22660

Perfect! Just a drop or two will be all you need!

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Guido LW8EOQ
Sent: Friday, October 02, 2009 10:56 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS-830S FAN LUBRICATION

Hello Chris and Kevin,

Thank you for your messages.

I've found some sewing machine oil (it says "multiuse", though) viscosity
ISO VG 10.

I think I'm going to use it on the fan.

73 de
Guido, LW8EOQ
Argentina

--- In TS-520_820_530_830@yahoogroups.com, "Guido LW8EOQ" <gperazzoli@...>
wrote:
>
> Hello,
>
> I would appreciate any comments regarding possibility of using WD40 for
TS-830S fan lubrication. Is it ok? Or maybe, there is other kind of
lubricant / oil that could perform better its duty.
>
> Thank you in advance for your kind assistance.
>
> 73 de
> GUIDO, LW8EOQ
> Argentina
>

Yahoo! Groups Links

22661. Re: [TS-520_820_530_830] VFO-520 Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-02 16:19:06 UTC
From: Dave ve3wej
Topic: 22651 Message: 22661

how are you at cutting the glass off of tubes, the 12au7a is the same base,
I beleive, in a pinch, two wired end to end???

not sure how they would solder from the inside, on the pins..

just a thought

----- Original Message -----
From: "VE3FMC" <ve3fmc@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, October 01, 2009 6:44 PM
Subject: [TS-520_820_530_830] VFO-520 Cable

> Hello Everyone
>
> I am in need of the cable that connects the VFO-520 to a TS-520. Does
> anyone have one they would sell?
>
> Or tell me where I might be able to purchase one?
>
> Thanks
> 73, Rick VE3FMC
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

22662. New TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-02 16:20:34 UTC
From: Dick Merryman
Topic: 22629 Message: 22662

I bought a complete TS-830S station from a guy and I think it will arrive today. It is purported to work fine and to be very clean. Does anyone have any suggestions on what PM I should do to it?

I also have a TS-520S and the CAR control is getting scratchy; that is, the drive jumps around when I turn the control. I plan to open the case and give the control a shot of contact cleaner. Any problems with that?

Finally, do you think my FT-1000MP will be jealous being surrounded by real radios?

-Dick-
N3XRU

[Non-text portions of this message have been removed]

22663. Re: [TS-520_820_530_830] Re: TS-830S FAN LUBRICATION

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-02 15:49:58 UTC
From: martin
Topic: 22655 Message: 22663

Hi Guys. Sewing machine oil or 3-in 1 oil will work well for the fan motor. PLEASE do NOT use WD-40 on any electronic parts, circuit boards, electrical contacts, or plastic parts! It is not meant for use as a contact cleaner, and when used on the above mentioned things will cause problems. WD-40 is a penetrating agent for metals. it can corrode and destroy plastics, and cause other problems as well.

WD-40 is a good product when used as it is meant to be used for. It is NOT meant for use on or around electrical/electronic devices, nor is it meant to be used on or near plastics.

TTYL

Kevin King wrote:
> Perfect! Just a drop or two will be all you need!
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Guido LW8EOQ
> Sent: Friday, October 02, 2009 10:56 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: TS-830S FAN LUBRICATION
>
> Hello Chris and Kevin,
>
> Thank you for your messages.
>
> I've found some sewing machine oil (it says "multiuse", though) viscosity
> ISO VG 10.
>
> I think I'm going to use it on the fan.
>
> 73 de
> Guido, LW8EOQ
> Argentina
>
> --- In TS-520_820_530_830@yahoogroups.com, "Guido LW8EOQ" <gperazzoli@...>
> wrote:
>> Hello,
>>
>> I would appreciate any comments regarding possibility of using WD40 for
> TS-830S fan lubrication. Is it ok? Or maybe, there is other kind of
> lubricant / oil that could perform better its duty.
>> Thank you in advance for your kind assistance.
>>
>> 73 de

>> GUIDO, LW8EOQ
>> Argentina
>>
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

22664. Re: [TS-520_820_530_830] TS-830S FAN LUBRICATION

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-02 16:20:50 UTC
From: n6wk@n6wk.com
Topic: 22655 Message: 22664

Guido,
NO.. Do NOT use WD-40.
It has very poor lubricating properties. use a good sewing machine oil
or some other very light weight oil.

73,
Gordon
N6WK

Guido LW8EOQ wrote:
>
>
> Hello,
>
> I would appreciate any comments regarding possibility of using WD40
> for TS-830S fan lubrication. Is it ok? Or maybe, there is other kind
> of lubricant / oil that could perform better its duty.
>
> Thank you in advance for your kind assistance.
>
> 73 de
> GUIDO, LW8EOQ
> Argentina
>
>

22665. Re: TS830S - no output after replacing finals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-02 16:26:52 UTC
From: Thomas C
Topic: 22629 Message: 22665

For one, if you want to see if there's TX output on SSB then you need to put an audio signal into the system. SSB suppresses the carrier.

Secondly, 70 mA when in CW mode is not a good sign when the key is down. In CW mode the idle current is about 70 mA. CW needs less linearity than SSB.

Thirdly, you're NOT monitoring the current in RECEIVE mode, you are seeing the AGC voltage.

--- In TS-520_820_530_830@yahoogroups.com, "n1326e" <mtnest@...> wrote:
>
> Greg,
>
> Many thanks for your reply.
>
> Here are the test results:
>
> 1. Meter SW = IP
> Mode = SSB
> Send/Rec = Send
> Mc50 - PTT depressed
> Meter indicating 62 Ma
> also indicating 62 Ma when PTT not depressed
>
> 2. Meter SW = IP
> Mode = CW
> Send/Rec=Send
> Key = Down
> Meter indicating 98 Ma
> When Key = up Meter reading = 70Ma
>
> 3. SG switch = ON
>
> Again, thanks for any help you may be able to provide.
>
> 73
> Tom
>
>
>
>
> <greg.anders@> wrote:
> >
> > When you key the final,
> >
> >
> > 1. Keying with a mic PTT in SSB do you have idle current on the finals?

> >
> > 2. Do you draw any plate current when peaking the driver in CW?
> >
> > 3. You didn't accidentally turn off the screen supply switch did you?
> >
> > Greg
> > KG6YV
> ---
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: no output after replacing finals
> >
> > I've had this faithful friend for about 20 yrs and have been inactive on HF for the last 3 yrs. Recently, after firing it up into a dummy load, I saw no output power (never replaced any of the tubes)so decided to replace the driver and both finals to 6146W's. I still see no output power on any band (modified to transmit WARC many years ago). I do have good ALC indication on all BUT 7,18,29,29.5 band positions. I've cleaned the entire band selector switch, but no help.
>
> <snip>
> > Thanks,
> > Tom
> > WB3JHP
>

22666. RE: [TS-520_820_530_830] VFO-520 Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-02 16:30:01 UTC
From: Greg Gollan
Topic: 22651 Message: 22666

I have used the base from the old driver tubes to make this cable. I used a Dremel wheel to cut glass tube and tops off the pins. Wires soldered easily to pins. I then filled the void with silicon and encased the whole assembly in heat shrink tubing. Worked and is still working great.
Greg
VE1GCG

Greg Gollan
R.A. Gollan Insurance Services
PO Box 924, 14 Water Street,
Windsor, NS
B0N 2T0
Phone: 902-798-3287
Fax: 902-798-3466

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of Dave ve3wej
Sent: Friday, October 02, 2009 1:19 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] VFO-520 Cable

how are you at cutting the glass off of tubes, the 12au7a is the same base,
I beleive, in a pinch, two wired end to end???

not sure how they would solder from the inside, on the pins..

just a thought

----- Original Message -----
From: "VE3FMC" <ve3fmc@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, October 01, 2009 6:44 PM
Subject: [TS-520_820_530_830] VFO-520 Cable

> Hello Everyone
>
> I am in need of the cable that connects the VFO-520 to a TS-520. Does
> anyone have one they would sell?
>
> Or tell me where I might be able to purchase one?
>
> Thanks
> 73, Rick VE3FMC
>
>

>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

[Non-text portions of this message have been removed]

22667. RE: [TS-520_820_530_830] VFO-520 Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-02 16:30:11 UTC
From: Dick Merryman
Topic: 22651 Message: 22667

Before you try to make a connector out of a glass tube, go to http://www.apexelectronic.com/connectors.htm and look at part # CON6-W-9A. It is a cable assembly of some kind that is terminated in a 9-pin tube-style connector that will fit into 9-pin tube sockets. The good part is that it only costs $3.00. Use it like it is or modify it as needed or call them and ask if you can buy just the connector.

-Dick-
N3XRU

_____

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Dave ve3wej
Sent: Friday, October 02, 2009 9:19 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] VFO-520 Cable

how are you at cutting the glass off of tubes, the 12au7a is the same base, I beleive, in a pinch, two wired end to end???

not sure how they would solder from the inside, on the pins..

just a thought

----- Original Message -----
From: "VE3FMC" <ve3fmc@... <mailto:ve3fmc%40gto.net> >
To: <TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com> 830@yahoogroups.com>
Sent: Thursday, October 01, 2009 6:44 PM
Subject: [TS-520_820_530_830] VFO-520 Cable

> Hello Everyone
>
> I am in need of the cable that connects the VFO-520 to a TS-520. Does
> anyone have one they would sell?
>
> Or tell me where I might be able to purchase one?
>
> Thanks
> 73, Rick VE3FMC
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links

>
>
>

[Non-text portions of this message have been removed]

22668. Re: [TS-520_820_530_830] VFO-520 Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-02 16:30:01 UTC
From: Ken Simpson, W8EK
Topic: 22651 Message: 22668

I have some of the standard 9 pin connectors available.
They have male prongs, just like a 12AU7 tube would have.
I have a total of three of them. Two have the "hood" to
hold the cable in. $12 each. One is missing the hood.
It is $10.

Prices do not include shipping from Florida.

Thanks.

73,

Ken, W8EK

Ken Simpson
E-mail to W8EK@... or W8EK@...
Voice Phone (352) 732-8400

Dave ve3wej wrote, On 10/2/2009 12:19 PM:
> how are you at cutting the glass off of tubes, the 12au7a is the same base,
> I beleive, in a pinch, two wired end to end???
>
> not sure how they would solder from the inside, on the pins..
>
> just a thought
>
> ----- Original Message -----
> From: "VE3FMC" <ve3fmc@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Thursday, October 01, 2009 6:44 PM
> Subject: [TS-520_820_530_830] VFO-520 Cable
>
>
>> Hello Everyone
>>
>> I am in need of the cable that connects the VFO-520 to a TS-520. Does
>> anyone have one they would sell?
>>
>> Or tell me where I might be able to purchase one?
>>
>> Thanks
>> 73, Rick VE3FMC
>>
>>
>>

22669. RE: [TS-520_820_530_830] New TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-02 16:43:17 UTC
From: Greg Anders
Topic: 22629 Message: 22669

I would encourage you to bring it up and check it out first. That way you know what condition it was in when it arrived.

PM?

Well, I have owned three 830S's. I always do the basics.

1. Pulll/clean and reseat all interconnect cables.

2. Loosen and re-tighten all pwb mounting screws (avoids squirrelly ground issues).

3. Check the fan and if it is not quiet pull it and clean/lube.

Great radios, enjoy,

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Dick Merryman
Sent: Friday, October 02, 2009 9:21 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] New TS-830S

I bought a complete TS-830S station from a guy and I think it will arrive today. It is purported to work fine and to be very clean. Does anyone have any suggestions on what PM I should do to it?

I also have a TS-520S and the CAR control is getting scratchy; that is, the drive jumps around when I turn the control. I plan to open the case and give the control a shot of contact cleaner. Any problems with that?

Finally, do you think my FT-1000MP will be jealous being surrounded by real radios?

-Dick-
N3XRU

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

22670. Re: [TS-520_820_530_830] VFO-520 Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-02 16:46:58 UTC
From: Dave ve3wej
Topic: 22651 Message: 22670

nice price, but his shipping will kill me.....

20.00 to mail to canada????

----- Original Message -----
From: "Dick Merryman" <dicko@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, October 02, 2009 12:30 PM
Subject: RE: [TS-520_820_530_830] VFO-520 Cable

> Before you try to make a connector out of a glass tube, go to
> http://www.apexelectronic.com/connectors.htm and look at part # CON6-W-9A.
> It is a cable assembly of some kind that is terminated in a 9-pin
> tube-style
> connector that will fit into 9-pin tube sockets. The good part is that it
> only costs $3.00. Use it like it is or modify it as needed or call them
> and
> ask if you can buy just the connector.
>
> -Dick-
> N3XRU
>
>
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Dave ve3wej
> Sent: Friday, October 02, 2009 9:19 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] VFO-520 Cable
>
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>
>
> how are you at cutting the glass off of tubes, the 12au7a is the same
> base,
> I beleive, in a pinch, two wired end to end???
>
> not sure how they would solder from the inside, on the pins..
>
> just a thought
>
> ----- Original Message -----
> From: "VE3FMC" <ve3fmc@... <mailto:ve3fmc%40gto.net> >

> To: <TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> 830@yahoogroups.com>
> Sent: Thursday, October 01, 2009 6:44 PM
> Subject: [TS-520_820_530_830] VFO-520 Cable
>
>> Hello Everyone
>>
>> I am in need of the cable that connects the VFO-520 to a TS-520. Does
>> anyone have one they would sell?
>>
>> Or tell me where I might be able to purchase one?
>>
>> Thanks
>> 73, Rick VE3FMC
>>
>>
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>> ------------------------------------
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>> Yahoo! Groups Links
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> [Non-text portions of this message have been removed]
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> ------------------------------------
>
> Yahoo! Groups Links
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>

22671. Re: VFO-520 Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-02 17:05:38 UTC
From: David
Topic: 22651 Message: 22671

Hi.
How about making a connector? seems crazy i know. but isnt it the same as a 9 pin tube base?
Just a thought and 3 cents worth. inflation you know.
Dave
KG4UXR

--- In TS-520_820_530_830@yahoogroups.com, "jmcgsd" <astro_crazy@...> wrote:
>
> This is the same question that I asked yesterday. I would even be happy if I could buy the connectors, but I sure can't find them anywhere on the Internet. If I EVER see them at a hamfest or swap meet, I'm gonna buy every one in site!
>
> Good luck with this.
>
> Joe
> AF6NI
>
> --- In TS-520_820_530_830@yahoogroups.com, "VE3FMC" <ve3fmc@> wrote:
> >
> > Hello Everyone
> >
> > I am in need of the cable that connects the VFO-520 to a TS-520. Does anyone have one they would sell?
> >
> > Or tell me where I might be able to purchase one?
> >
> > Thanks
> > 73, Rick VE3FMC
> >
>

22672. Re: TS-830S FAN LUBRICATION

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-02 19:20:50 UTC
From: ah6rr1
Topic: 22655 Message: 22672

Yes WD-40 is not to be used on any Radio part what so ever. I use a product called "Corrision Block" made by Lear Chemical Research Corp. in Canada. I found this product back in 91. It is made for the Marine industry for corrision control on all marine systems including electronics. I worked in a marine electronics shop and we sprayed all the boards in Radars, Depth Sounders, Radios ect. new and used. I will loosen rusted bolts much better than WD-40 and has no adverse reactions on any plastic except soft membrane keypads or LCD displays. I use it insted of De-Oxit on all controls, swtiches and fans. I have cleaned badly corroded boards on VHF radios that were dead and they came back to life. You can find it in most marine stores or online marine suppliers.
73
Roland AH6RR

--- In TS-520_820_530_830@...m, martin <kb0hae@...> wrote:
>
> Hi Guys. Sewing machine oil or 3-in 1 oil will work well for the fan
> motor. PLEASE do NOT use WD-40 on any electronic parts, circuit
> boards, electrical contacts, or plastic parts! It is not meant for
> use as a contact cleaner, and when used on the above mentioned things
> will cause problems. WD-40 is a penetrating agent for metals. it can
> corrode and destroy plastics, and cause other problems as well.
>
> WD-40 is a good product when used as it is meant to be used for. It
> is NOT meant for use on or around electrical/electronic devices, nor
> is it meant to be used on or near plastics.
>
> TTYL
>
> Kevin King wrote:
> > Perfect! Just a drop or two will be all you need!
> >
> > -----Original Message-----
> > From: TS-520_820_530_830@yahoogroups.com
> > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Guido LW8EOQ
> > Sent: Friday, October 02, 2009 10:56 AM
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: [TS-520_820_530_830] Re: TS-830S FAN LUBRICATION
> >
> > Hello Chris and Kevin,
> >
> > Thank you for your messages.
> >
> > I've found some sewing machine oil (it says "multiuse", though) viscosity
> > ISO VG 10.
> >
> > I think I'm going to use it on the fan.

> >
> > 73 de
> > Guido, LW8EOQ
> > Argentina
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Guido LW8EOQ" <gperazzoli@>
> > wrote:
> >> Hello,
> >>
> >> I would appreciate any comments regarding possibility of using WD40 for
> > TS-830S fan lubrication. Is it ok? Or maybe, there is other kind of
> > lubricant / oil that could perform better its duty.
> >> Thank you in advance for your kind assistance.
> >>
> >> 73 de
> >> GUIDO, LW8EOQ
> >> Argentina
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> > Yahoo! Groups Links
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> --
> CUL8R
>
> KBOHAE kb0hae@... Martin Campbell
>
> A Satisfied Sidux Linux user! To get Sidux go to:
> www.sidux.com/index.html
> "Protect your digital freedom and privacy, eliminate DRM, learn more
> at http://www.defectivebydesign.org/what_is_drm"
>

22673. Re: TS-830S FAN LUBRICATION

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-02 21:23:27 UTC
From: loewensteijn@rocketmail.com
Topic: 22655 Message: 22673

I was recently recommended using Tri-Flow Superior lubricant for loosening up the plate capacitor (seems to be stuck solidly) and I wonder if same can be used for the fan? Looks to me to be superior to sewing machine oil.

Thanks
Marinus, ZL2ML

--- In TS-520_820_530_830@yahoogroups.com, "Guido LW8EOQ" <gperazzoli@...> wrote:
>
> Hello,
>
> I would appreciate any comments regarding possibility of using WD40 for TS-830S fan lubrication. Is it ok? Or maybe, there is other kind of lubricant / oil that could perform better its duty.
>
> Thank you in advance for your kind assistance.
>
> 73 de
> GUIDO, LW8EOQ
> Argentina
>

22674. Re: VFO-520 Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-02 22:50:09 UTC
From: mjsyn
Topic: 22651 Message: 22674

hello to all & I hope this finds you well,

In an earlier e-mail someone referenced Ken's Electronics in Kalamazoo Michigan. He Has the 9 pin connex for $5 ea. & will ship for 4.95 USPS 1st class up to 13 ounces. Link is: www.kenselectronics.com
Also Mouser, R & L, and others can supply them without the need to cut up old tubes. I would bet Ken Kemski K4EAA has them as well (WWW.K4EAA.com).

Best of luck in your search and I hope you get the rigs connected & running.

Vy73,
mjsyn K8SYN

--- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@...> wrote:
>
> nice price, but his shipping will kill me.....
>
> 20.00 to mail to canada????
>
>
> ----- Original Message -----
> From: "Dick Merryman" <dicko@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Friday, October 02, 2009 12:30 PM
> Subject: RE: [TS-520_820_530_830] VFO-520 Cable
>
>
> > Before you try to make a connector out of a glass tube, go to
> > http://www.apexelectronic.com/connectors.htm and look at part # CON6-W-9A.
> > It is a cable assembly of some kind that is terminated in a 9-pin
> > tube-style
> > connector that will fit into 9-pin tube sockets. The good part is that it
> > only costs $3.00. Use it like it is or modify it as needed or call them
> > and
> > ask if you can buy just the connector.
> >
> > -Dick-
> > N3XRU
> >
> >
> >
> > _____
> >
> > From: TS-520_820_530_830@yahoogroups.com
> > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Dave ve3wej
> > Sent: Friday, October 02, 2009 9:19 AM

> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: Re: [TS-520_820_530_830] VFO-520 Cable
> >
> >
> >
> >
> >
> > how are you at cutting the glass off of tubes, the 12au7a is the same
> > base,
> > I beleive, in a pinch, two wired end to end???
> >
> > not sure how they would solder from the inside, on the pins..
> >
> > just a thought
> >
> > ----- Original Message -----
> > From: "VE3FMC" <ve3fmc@... <mailto:ve3fmc%40gto.net> >
> > To: <TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> > 830@yahoogroups.com>
> > Sent: Thursday, October 01, 2009 6:44 PM
> > Subject: [TS-520_820_530_830] VFO-520 Cable
> >
> >> Hello Everyone
> >>
> >> I am in need of the cable that connects the VFO-520 to a TS-520. Does
> >> anyone have one they would sell?
> >>
> >> Or tell me where I might be able to purchase one?
> >>
> >> Thanks
> >> 73, Rick VE3FMC
> >>
> >>
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> >> Yahoo! Groups Links
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> > [Non-text portions of this message have been removed]
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> > Yahoo! Groups Links
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22675. Re: TS-830S FAN LUBRICATION

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-02 23:03:45 UTC
From: mjsyn
Topic: 22655 Message: 22675

Hello Marinus & all on the thread,

I concur; Tri-Flow is a very superior lube for many light machine oil applications. Slick -50 also makes a good light lube available in an aerosol can and while it is not as good as Tri-Flow it is pretty darn good. The key with any light oil is to use the minimum necessary to meet the need. Too much oil & it just gums up the works (not to mention migrating to other places on a circuit board where it may have undesirable effects & bad consequences.

You can usually find Tri-Flow or Slick-50 in the automotive section of a good hardware.

Best of luck.

Vy 73,
mjsyn K8SYN

--- In TS-520_820_530_830@yahoogroups.com, "loewensteijn@..." <zl2ml@...> wrote:
>
> I was recently recommended using Tri-Flow Superior lubricant for loosening up the plate capacitor (seems to be stuck solidly) and I wonder if same can be used for the fan? Looks to me to be superior to sewing machine oil.
>
> Thanks
> Marinus, ZL2ML
>
> --- In TS-520_820_530_830@yahoogroups.com, "Guido LW8EOQ" <gperazzoli@> wrote:
> >
> > Hello,
> >
> > I would appreciate any comments regarding possibility of using WD40 for TS-830S fan lubrication. Is it ok? Or maybe, there is other kind of lubricant / oil that could perform better its duty.
> >
> > Thank you in advance for your kind assistance.
> >
> > 73 de
> > GUIDO, LW8EOQ
> > Argentina
> >
>

22676. New TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-03 00:12:14 UTC
From: Dick Merryman
Topic: 22655 Message: 22676

Well, it came in two boxes and took me an hour to unpack all the bubble wrap. I got a TS-830S, a VFO-230, a SP-230 and a no-name microphone.

The equipment was well packed and clean as a whistle.

I opened the transceiver and noted that the CW filters are missing although the seller said they were there. It has Chinese 6146Bs. No signs of overheating on the plate choke or cathode resistors. Everything looked fine so I buttoned it up and hooked it to an antenna.

The receiver is great. Low noise, nice tone and the VFO is smooth. Loaded up on 20M at a little over 100 watts into a dummy load.

I tried 40M but could only get about 50 watts. I loaded it several times but that was the best it would do. As I was staring at the wattmeter I noticed that the power was slowly creeping up. Then, suddenly, the Ip meter pegged, the pilot lights dimmed and the whole thing went dark. I could smell the smoke.

Ouch! I went to open a beer and check my e-mail. I figure that best case I'll need two finals, 4 cathode resisters and a line fuse. At worst I probably smoked the power supply.

Think I'll have another beer.

-Dick-
N3XRU

[Non-text portions of this message have been removed]

22677. RE: [TS-520_820_530_830] VFO-520 Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-03 00:51:18 UTC
From: Kevin King
Topic: 22651 Message: 22677

If you just want to do it the most difficult way possible try this:

Take some modeling clay and stick the end of a 12au7a or similar tube. Place some tinned copper wire in the pin locations. Then pour some hot glue in the mold. Let this harden. Then do it again and solder wire to the pins.

Or go full out and pour plaster in the clay then use that to make a full on mold and do the wire thing and use melted plastic to make a connector.

Have fun...

-Kevin

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Dave ve3wej
Sent: Friday, October 02, 2009 12:19 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] VFO-520 Cable

how are you at cutting the glass off of tubes, the 12au7a is the same base, I beleive, in a pinch, two wired end to end???

not sure how they would solder from the inside, on the pins..

just a thought

----- Original Message -----
From: "VE3FMC" <ve3fmc@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, October 01, 2009 6:44 PM
Subject: [TS-520_820_530_830] VFO-520 Cable

> Hello Everyone
>
> I am in need of the cable that connects the VFO-520 to a TS-520. Does
> anyone have one they would sell?
>
> Or tell me where I might be able to purchase one?
>
> Thanks
> 73, Rick VE3FMC
>
>
>
> ------------------------------------
>

> Yahoo! Groups Links
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Yahoo! Groups Links

22678. Re: New TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-03 02:18:10 UTC
From: w5rkl
Topic: 22655 Message: 22678

Hello Dick,

Sounds to me like a failure in the bias supply on the Rectifier Unit. Check capacitors C5 and C6 (33ufd 160VDC each capacitor) for internal shorts. Also check D5 on the Rectifier Unit to see if it's burnt open.

Also check the Final Unit's R2 thru R5 (20 ohm 1/2 watt each resistor)final tube cathode resistors. They may be smoked due to excessive current through the final tubes. Replace them if they appear to have been overheated, blistered, or cracked even if they measure 20 ohms.

I would also check the final tubes as well. The driver tube should be okay but it wouldn't hurt to check it as well.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Dick Merryman" <dicko@...> wrote:
>
> Well, it came in two boxes and took me an hour to unpack all the bubble
> wrap. I got a TS-830S, a VFO-230, a SP-230 and a no-name microphone.
>
>
>
> The equipment was well packed and clean as a whistle.
>
>
>
> I opened the transceiver and noted that the CW filters are missing although
> the seller said they were there. It has Chinese 6146Bs. No signs of
> overheating on the plate choke or cathode resistors. Everything looked fine
> so I buttoned it up and hooked it to an antenna.
>
>
>
> The receiver is great. Low noise, nice tone and the VFO is smooth. Loaded
> up on 20M at a little over 100 watts into a dummy load.
>
>
>
> I tried 40M but could only get about 50 watts. I loaded it several times
> but that was the best it would do. As I was staring at the wattmeter I
> noticed that the power was slowly creeping up. Then, suddenly, the Ip meter
> pegged, the pilot lights dimmed and the whole thing went dark. I could
> smell the smoke.
>

>
>
> Ouch! I went to open a beer and check my e-mail. I figure that best case
> I'll need two finals, 4 cathode resisters and a line fuse. At worst I
> probably smoked the power supply.
>
>
>
> Think I'll have another beer.
>
>
>
> -Dick-
> N3XRU
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

22679. RE: [TS-520_820_530_830] Re: New TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-03 03:30:20 UTC
From: Dick Merryman
Topic: 22655 Message: 22679

Thanks Mike. I'll do all that you suggest. I am going to replace the finals anyway as I'm sure this didn't do them any good and they are the Chinese cheapies. I think I'll replace the driver too, just for PM.

73,

-Dick-

_____

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
Sent: Friday, October 02, 2009 7:18 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: New TS-830S

Hello Dick,

Sounds to me like a failure in the bias supply on the Rectifier Unit. Check capacitors C5 and C6 (33ufd 160VDC each capacitor) for internal shorts. Also check D5 on the Rectifier Unit to see if it's burnt open.

Also check the Final Unit's R2 thru R5 (20 ohm 1/2 watt each resistor)final tube cathode resistors. They may be smoked due to excessive current through the final tubes. Replace them if they appear to have been overheated, blistered, or cracked even if they measure 20 ohms.

I would also check the final tubes as well. The driver tube should be okay but it wouldn't hurt to check it as well.

73's
Mike W5RKL

--- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com, "Dick Merryman" <dicko@...> wrote:
>
> Well, it came in two boxes and took me an hour to unpack all the bubble
> wrap. I got a TS-830S, a VFO-230, a SP-230 and a no-name microphone.
>
>
>
> The equipment was well packed and clean as a whistle.
>
>
>
> I opened the transceiver and noted that the CW filters are missing
although

> the seller said they were there. It has Chinese 6146Bs. No signs of
> overheating on the plate choke or cathode resistors. Everything looked
fine
> so I buttoned it up and hooked it to an antenna.
>
>
>
> The receiver is great. Low noise, nice tone and the VFO is smooth. Loaded
> up on 20M at a little over 100 watts into a dummy load.
>
>
>
> I tried 40M but could only get about 50 watts. I loaded it several times
> but that was the best it would do. As I was staring at the wattmeter I
> noticed that the power was slowly creeping up. Then, suddenly, the Ip
meter
> pegged, the pilot lights dimmed and the whole thing went dark. I could
> smell the smoke.
>
>
>
> Ouch! I went to open a beer and check my e-mail. I figure that best case
> I'll need two finals, 4 cathode resisters and a line fuse. At worst I
> probably smoked the power supply.
>
>
>
> Think I'll have another beer.
>
>
>
> -Dick-
> N3XRU
>
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> [Non-text portions of this message have been removed]
>

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22680. Re: [TS-520_820_530_830] Re: New TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-03 06:10:15 UTC
From: Robert DROGOUL
Topic: 22629 Message: 22680

Howdy Dick,
I had a little time ago, an TS-820. It'sn sold now but when it came in my hand, it has the same configuration as your 830! Chinese 6146B!!!
The first time I turned it on I got, in about 10/15 mn of test, the same results as you, bad smell, light off, fuse gone, etc.
Upon check, I foud the 4 20 ohms (R2 to R5) gone, one 6146b with the anode with a 5 cents hole vaporised in it.
So I did what you have to do, replace the two PA ntubes with RCA 6145W, 4 new 20 ohms resistors, one fuse, and just for the sake of beeing good a new 12BY7 too!
When I sold it 11 month laters, it was still working super good, more than 100 watts on 20 m and going good!
So at least with the hybrids transceivers (,Kenwood on Yaesu) beware of the chinese tubes (6146). They are cheep sure but for a good reason. The anode is realy thin steel plate, very fleemsy!. The disipation is far from 35 watts (may be only fot 10 second!!!). At 850 V / 230 mA, they go up very fast, with the anode going red quite fast...!

Good luck with the restoration of your 830. It's a great rig!
73 F5UL/Bob
----- Original Message -----
From: Dick Merryman
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 03, 2009 5:30 AM
Subject: RE: [TS-520_820_530_830] Re: New TS-830S

Thanks Mike. I'll do all that you suggest. I am going to replace the finals anyway as I'm sure this didn't do them any good and they are the Chinese cheapies. I think I'll replace the driver too, just for PM.

73,

-Dick-

_____

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
Sent: Friday, October 02, 2009 7:18 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: New TS-830S

Hello Dick,

Sounds to me like a failure in the bias supply on the Rectifier Unit. Check capacitors C5 and C6 (33ufd 160VDC each capacitor) for internal shorts. Also check D5 on the Rectifier Unit to see if it's burnt open.

Also check the Final Unit's R2 thru R5 (20 ohm 1/2 watt each resistor)final tube cathode resistors. They may be smoked due to excessive current through the final tubes. Replace them if they appear to have been overheated, blistered, or cracked even if they measure 20 ohms.

I would also check the final tubes as well. The driver tube should be okay but it wouldn't hurt to check it as well.

73's
Mike W5RKL

--- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com> 830@yahoogroups.com, "Dick Merryman" <dicko@...> wrote:
>
> Well, it came in two boxes and took me an hour to unpack all the bubble
> wrap. I got a TS-830S, a VFO-230, a SP-230 and a no-name microphone.
>
>
>
> The equipment was well packed and clean as a whistle.
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>
>
> I opened the transceiver and noted that the CW filters are missing
although
> the seller said they were there. It has Chinese 6146Bs. No signs of
> overheating on the plate choke or cathode resistors. Everything looked
fine
> so I buttoned it up and hooked it to an antenna.
>
>
>
> The receiver is great. Low noise, nice tone and the VFO is smooth. Loaded
> up on 20M at a little over 100 watts into a dummy load.
>
>
>
> I tried 40M but could only get about 50 watts. I loaded it several times
> but that was the best it would do. As I was staring at the wattmeter I
> noticed that the power was slowly creeping up. Then, suddenly, the Ip
meter
> pegged, the pilot lights dimmed and the whole thing went dark. I could
> smell the smoke.
>
>
>
> Ouch! I went to open a beer and check my e-mail. I figure that best case
> I'll need two finals, 4 cathode resisters and a line fuse. At worst I
> probably smoked the power supply.
>
>
>

> Think I'll have another beer.
>
>
>
> -Dick-
> N3XRU
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[Non-text portions of this message have been removed]

22681. RE: [TS-520_820_530_830] VFO-520 Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-03 14:08:07 UTC
From: Gordon JC Pearce
Topic: 22651 Message: 22681

On Fri, 2009-10-02 at 20:51 -0400, Kevin King wrote:
> If you just want to do it the most difficult way possible try this:
>
> Take some modeling clay and stick the end of a 12au7a or similar tube. Place
> some tinned copper wire in the pin locations. Then pour some hot glue in the
> mold. Let this harden. Then do it again and solder wire to the pins.
>
> Or go full out and pour plaster in the clay then use that to make a full on
> mold and do the wire thing and use melted plastic to make a connector.
>
> Have fun...

You can buy two-pack plastic resin fairly cheaply. My fiancee has tubs
of the stuff for making various small moulded plastic items. You'd
probably want some sort of thermosetting rather than thermoplastic
resin, so it didn't fall to bits when you soldered it.

Apparently you need proper silicone putty for the mould, because the
plastic sticks to plasticene.

Gordon MM0YEQ

22682. Re: TS830S - no output after replacing finals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-03 02:58:24 UTC
From: n1326e
Topic: 22629 Message: 22682

JD,

I see your point and thanks for the input, however, I think my best course of action at this point will be to do a good cleaning job as suggested by others here. Then if I still have a problem, I'll be back to report and ask for more help.

Thanks again to all how have replied to me,

Tom
WB3JHP

--- In TS-520_820_530_830@yahoogroups.com, John Davidson <k8jd@...> wrote:
>
>
>
> --- On Thu, 10/1/09, n1326e <mtnest@...> wrote:
>
>
> From: n1326e <mtnest@...>
> Subject: [TS-520_820_530_830] Re: TS830S - no output after replacing finals
> To
>
>
>
>
>
> Greg,
>
> Many thanks for your reply.
>
> Here are the test results:
>
> 1. Meter SW = IP
> 2. Meter SW = IP
> Mode = CW
> Send/Rec=Send
> Key = Down
> Meter indicating 98 Ma
> When Key = up Meter reading = 70Ma
>
> > WB3JHP
>
> With the key down, does the IP change with the CAR control turned up/down, can you peak the reading by tuning the DRIVE control , Can you dip the IP by tuning the PLATE control?
> The increase of IP tells me that you may have some drive getting to the PA tubes grids.
> Good Luck
> JD

22683. Re: TS830S - no output after replacing finals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-03 03:00:52 UTC
From: n1326e
Topic: 22629 Message: 22683

Mike,

Thanks for pointing that out, I would have been scratching my head :0)

73
Tom

<w5rkl@...> wrote:
>
> I confused your 830 with an 820.
>
> The 830 PLL UNIT and COUNTER UNIT do not have 2 boards, only one each. The 830's PLL and COUNTER UNIT are connected to the wiring harness through various plugs so cleaning of the plugs and pins, checking all grounds including the board mounting screws, is important.
>
> Sorry for confusing the 820 PLL UNIT and COUNTER UNIT enclosures with the 830. I still believe your problem is about dirty contacts.
>
> 73's
> Mike W5RKL

<snip>

22684. Re: TS-830S FAN LUBRICATION

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-03 18:11:45 UTC
From: Guido LW8EOQ
Topic: 22655 Message: 22684

Hello guys,

Ok! Thanks for the info regarding WD40... I'll keep it away from the rig.

73 de
Guido LW8EOQ

--- In TS-520_820_530_830@yahoogroups.com, "Guido LW8EOQ" <gperazzoli@...> wrote:
>
> Hello,
>
> I would appreciate any comments regarding possibility of using WD40 for TS-830S fan lubrication. Is it ok? Or maybe, there is other kind of lubricant / oil that could perform better its duty.
>
> Thank you in advance for your kind assistance.
>
> 73 de
> GUIDO, LW8EOQ
> Argentina
>

22685. TS-520 12 volt homebrew power cord.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-03 19:17:42 UTC
From: kd8aiv
Topic: 22685 Message: 22685

Hello,

I have a power cord with the 12 pin Molex connect that I made when I had my TS-520. I no longer have the radio but stubbled across the cord when I was cleaning up my shop. It has the Molex on one end and Anderson PowerPoles on the other with about 4 to 5 foot of cord. I am offering it up for free to anyone who may want it. I will ship it out anywhere in the continental US only. This is truely free, I will cover the cost of shipping. I just hate to throw something perfectly good away. Please email me if you are interested.

Thanks,
Steve,
KD8AIV.

22686. Re: [TS-520_820_530_830] TS-520 12 volt homebrew power cord.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-03 19:57:04 UTC
From: Lehmen Keyes
Topic: 22685 Message: 22686

From: kd8aiv <kd8aiv@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 3, 2009 3:17:42 PM
Subject: [TS-520_820_530_830] TS-520 12 volt homebrew power cord.
If no one has beat me to it, I'd be happy to make my 520 even happier.
Lee KD8INW
.

[Non-text portions of this message have been removed]

22687. Re: [TS-520_820_530_830] TS-520 12 volt homebrew power cord.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-03 19:41:34 UTC
From: Gordon JC Pearce
Topic: 22685 Message: 22687

On Sat, 2009-10-03 at 19:17 +0000, kd8aiv wrote:
> Hello,
>
> I have a power cord with the 12 pin Molex connect that I made when I
> had my TS-520. I no longer have the radio but stubbled across the
> cord when I was cleaning up my shop. It has the Molex on one end and
> Anderson PowerPoles on the other with about 4 to 5 foot of cord. I am
> offering it up for free to anyone who may want it. I will ship it out
> anywhere in the continental US only. This is truely free, I will
> cover the cost of shipping. I just hate to throw something perfectly
> good away. Please email me if you are interested.
>

Please please ship it outside the US ;-)

If you stick it in a padded bag it should be fine. In fact, you could even just chop the TS-520 Molex and send that, and sling the wire. Let me know what postage to Glasgow, Scotland G61 1RE would be, if you're up for sending it out of the country.

Gordon MM0YEQ

22688. Re: [TS-520_820_530_830] TS-520 12 volt homebrew power cord.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-03 20:34:41 UTC
From: Dave Garber
Topic: 22685 Message: 22688

I am interested, and can even give you a U.S. address to send it to in Farmington Hills, if need be, or cover the extra to send to Canada

ve3wej@... direct

On 10/3/09, kd8aiv <kd8aiv@...> wrote:
>
> Hello,
>
> I have a power cord with the 12 pin Molex connect that I made when I had my
> TS-520. I no longer have the radio but stubbled across the cord when I was
> cleaning up my shop. It has the Molex on one end and Anderson PowerPoles on
> the other with about 4 to 5 foot of cord. I am offering it up for free to
> anyone who may want it. I will ship it out anywhere in the continental US
> only. This is truely free, I will cover the cost of shipping. I just hate
> to throw something perfectly good away. Please email me if you are
> interested.
>
> Thanks,
> Steve,
> KD8AIV.
>
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> Yahoo! Groups Links
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22689. RE: [TS-520_820_530_830] TS-520 12 volt homebrew power cord.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-03 22:25:57 UTC
From: brad
Topic: 22685 Message: 22689

Is it gone yet? My address is 19 Minuteman trail, Rochester, NY 14624-4916.
The name is Brad Allen KB2CHY

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Dave Garber
Sent: Saturday, October 03, 2009 16:35
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS-520 12 volt homebrew power cord.

I am interested, and can even give you a U.S. address to send it to in
Farmington Hills, if need be, or cover the extra to send to Canada

ve3wej@gmail. <mailto:ve3wej%40gmail.com> com direct

On 10/3/09, kd8aiv <kd8aiv@yahoo. <mailto:kd8aiv%40yahoo.com> com> wrote:
>
> Hello,
>
> I have a power cord with the 12 pin Molex connect that I made when I had
my
> TS-520. I no longer have the radio but stubbled across the cord when I was
> cleaning up my shop. It has the Molex on one end and Anderson PowerPoles
on
> the other with about 4 to 5 foot of cord. I am offering it up for free to
> anyone who may want it. I will ship it out anywhere in the continental US
> only. This is truely free, I will cover the cost of shipping. I just hate
> to throw something perfectly good away. Please email me if you are
> interested.
>
> Thanks,
> Steve,
> KD8AIV.
>
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> ------------------------------------
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> Yahoo! Groups Links
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22690. TS-820s blowing screen grid resistors.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-03 22:35:05 UTC
From: trippkj4bkd
Topic: 22690 Message: 22690

Hello,

The 10 Ohm screen grid resistors will blow all of a sudden while in idle with out pushing any kind of load. Happens sometimes while tunning the pie network. And sometimes while just in recieve. They have blown about four times now in less than two weeks. I always tune first into a dummy load. I replace them and they blow again. I am kind of stumped here. Im not sure what to check for.
One time it blew with the covers off the rig with the rig turned on its side. I saw a big spark and debree from one of the resitors hit my hand like shrapnel. No injuries but scared me just the same. Lateley while trying to tune I noticed I could dip the plate in Tune mode but not in CW. I also had no Load. I figured the screen grid resistors had blown again as they sometimes make no noise when going south. I really am concerned there is something very wrong with my final section or the HV Caps. Has anyone had simillar problems. I am at a loss here.

Thanks for any advice
Tripp KJ4BKD

22691. RE: [TS-520_820_530_830] TS-520 12 volt homebrew power cord.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-03 22:42:58 UTC
From: Dick Merryman
Topic: 22685 Message: 22691

K4EAA, Ken, has power cords as well as VFO cable kits for sale.
www.k4eaa.com <http://www.k4eaa.com/> .

-Dick-

_____

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of brad
Sent: Saturday, October 03, 2009 3:26 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: RE: [TS-520_820_530_830] TS-520 12 volt homebrew power cord.

Is it gone yet? My address is 19 Minuteman trail, Rochester, NY 14624-4916.
The name is Brad Allen KB2CHY

_____

From: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
[mailto:TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com] On Behalf Of Dave Garber
Sent: Saturday, October 03, 2009 16:35
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS-520 12 volt homebrew power cord.

I am interested, and can even give you a U.S. address to send it to in
Farmington Hills, if need be, or cover the extra to send to Canada

ve3wej@gmail. <mailto:ve3wej%40gmail.com> com direct

On 10/3/09, kd8aiv <kd8aiv@yahoo. <mailto:kd8aiv%40yahoo.com> com> wrote:
>
> Hello,
>
> I have a power cord with the 12 pin Molex connect that I made when I had
my
> TS-520. I no longer have the radio but stubbled across the cord when I was
> cleaning up my shop. It has the Molex on one end and Anderson PowerPoles
on
> the other with about 4 to 5 foot of cord. I am offering it up for free to
> anyone who may want it. I will ship it out anywhere in the continental US
> only. This is truely free, I will cover the cost of shipping. I just hate
> to throw something perfectly good away. Please email me if you are
> interested.
>

> Thanks,
> Steve,
> KD8AIV.
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> Yahoo! Groups Links
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22692. Re: TS-520 12 volt homebrew power cord.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-04 02:00:35 UTC
From: kd8aiv
Topic: 22685 Message: 22692

Lee,

You are the first in line for the cord. You can email me your shipping address and I will get it in the mail on Monday.

73,
Steve
KD8AIV

--- In TS-520_820_530_830@yahoogroups.com, Lehmen Keyes <leekeyes@...> wrote:
>
>
>
>
>
>
> _____
> From: kd8aiv <kd8aiv@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, October 3, 2009 3:17:42 PM
> Subject: [TS-520_820_530_830] TS-520 12 volt homebrew power cord.
> If no one has beat me to it, I'd be happy to make my 520 even happier.
> Lee KD8INW
> .
>
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>
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>
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> [Non-text portions of this message have been removed]
>

22693. Re: TS-820s blowing screen grid resistors.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-04 03:40:25 UTC
From: w5rkl
Topic: 22690 Message: 22693

--- In TS-520_820_530_830@yahoogroups.com, "trippkj4bkd" <thomasenglish3@...> wrote:

> Hello,
>
> The 10 Ohm screen grid resistors will blow all of a sudden while in
> idle with out pushing any kind of load.
> Happens sometimes while tunning the pie network. And sometimes
> while just in recieve.

The TS-820's 10 ohm 1 watt resistors are the final tube's "cathode" resistors not "screen grid" resistors. They blow because of excessive current flowing through the final tubes.

This can be caused by a number of things.

1. Short final tubes (one or both)

2. Bias supply has failed, tubes are not cut off in receive resulting in saturation current flowing in both final tubes.

3. Broken or intermittent bias circuit wiring to the final unit's "FG" terminal from the RF UNIT "FG" terminal.

4. Q5 on the RF UNIT has failed

5. Missing bias voltage at the RF UNIT's RF2 pin 7.

6. Bad bias pot

> They have blown about four times now in less than two weeks.
> I always tune first into a dummy load. I replace them and they blow
> again. I am kind of stumped here. Im not sure what to check for.
> One time it blew with the covers off the rig with the rig turned on
> its side. I saw a big spark and debree from one of the resitors hit
> my hand like shrapnel. No injuries but scared me just the same.
> Lateley while trying to tune I noticed I could dip the plate in
> Tune mode but not in CW.
> I also had no Load. I figured the screen
> grid resistors had blown again as they sometimes make no noise when
> going south. I really am concerned there is something very wrong
> with my final section or the HV Caps.

The HV caps have nothing to do with the cathode resistors burning up.

>Has anyone had simillar
> problems. I am at a loss here.
>
> Thanks for any advice
> Tripp KJ4BKD

>

22694. RE: New TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-04 06:28:11 UTC
From: Dick Merryman
Topic: 22629 Message: 22694

Well Guys, my new TS-830S is back on the air, fully operational.

The problem was a dirty CAR control. If I happened to stop adjusting it when it was right on the edge of a dirty spot, the drive would creep up and then avalanche, the finals would be way over driven and the line fuse would blow.

I fixed it by cleaning the pot with contact cleaner. I gave the rest of the radio a bath while I was in there. Visual inspection turned up nothing, all final voltages are right on and the cathode resistor array is exactly 5 ohms.

So I buttoned it up and put it back in service and made about 50 contacts tonight for the boys in the California QSO Party.

I ordered repair parts from K4EAA and will replace all the final resistors and caps and re-cap the power supply. I'll also replace the Chinese 6146Bs. I would replace the driver tube as well but have been advised that would necessitate an RF re-alignment. Too much trouble since its working fine.

While I'm replacing the parts I'll probably field-strip the whole radio and clean all of the connectors (there's dozens) and the grounding screws for the PC boards.

Thanks to everyone for all of the good suggestions and support.

73,

-Dick-
N3XRU

From: Dick Merryman [mailto:dicko@...]
Sent: Friday, October 02, 2009 5:12 PM
To: 'TS-520_820_530_830@yahoogroups.com'
Subject: New TS-830S

Well, it came in two boxes and took me an hour to unpack all the bubble wrap. I got a TS-830S, a VFO-230, a SP-230 and a no-name microphone.

The equipment was well packed and clean as a whistle.

I opened the transceiver and noted that the CW filters are missing although the seller said they were there. It has Chinese 6146Bs. No signs of overheating on the plate choke or cathode resistors. Everything looked fine so I buttoned it up and hooked it to an antenna.

The receiver is great. Low noise, nice tone and the VFO is smooth. Loaded up on 20M at a little over 100 watts into a dummy load.

I tried 40M but could only get about 50 watts. I loaded it several times but that was the best it would do. As I was staring at the wattmeter I noticed that the power was slowly creeping up. Then, suddenly, the Ip meter pegged, the pilot lights dimmed and the whole thing went dark. I could smell the smoke.

Ouch! I went to open a beer and check my e-mail. I figure that best case I'll need two finals, 4 cathode resisters and a line fuse. At worst I probably smoked the power supply.

Think I'll have another beer.

-Dick-
N3XRU

[Non-text portions of this message have been removed]

22695. Re: [TS-520_820_530_830] Re: TS-520 12 volt homebrew power cord.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-04 11:55:42 UTC
From: Lehmen Keyes
Topic: 22685 Message: 22695

```
_________________________________
From: kd8aiv <kd8aiv@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 3, 2009 10:00:35 PM
Subject: [TS-520_820_530_830] Re: TS-520 12 volt homebrew power cord.

Steve,,,,Thanks so much. I really enjoy working 10m (for right now) and we're approaching
winter here in WV which means intermittent power outages. I already got a deep=discharge
battery set up for my uhf-vhf rigs. this will complete my shack.
Again, thanks so much.
Lee Keyes
HC82 Box 180E
Marlinton WV 24954

**********************************************************************************

Lee,

You are the first in line for the cord. You can email me your shipping address and I will
get it in the mail on Monday.

73,
Steve
KD8AIV

--- In TS-520_820_530_ 830@yahoogroups. com, Lehmen Keyes <leekeyes@.. .> wrote:
>
>
>
>
>
>
> ____________ _________ _________ __
> From: kd8aiv <kd8aiv@...>
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Saturday, October 3, 2009 3:17:42 PM
> Subject: [TS-520_820_ 530_830] TS-520 12 volt homebrew power cord.
> If no one has beat me to it, I'd be happy to make my 520 even happier.
> Lee KD8INW
> .
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22696. Replacement 6146Bs

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-04 13:03:08 UTC
From: KA4AQM
Topic: 22696 Message: 22696

Ok guys and (gals?)

Where is best place we get 6146Bs for the TS-830S? Would prefer NOT to get Chinese made, but need good input for new/NOS tubes.
TNX in advance!
Randy
KA4AQM@...

[Non-text portions of this message have been removed]

22698. Re: Replacement 6146Bs

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-04 16:18:15 UTC
From: james27613
Topic: 22696 Message: 22698

Hi Randy,

NOS circa 1985 JAN GE 6146W and the 12BY7A driver
available below

www.surplussales.com/Tubes-Sock-Acc/TubeSpecials.html

www.tubedepot.com

73 james

22699. RE: [TS-520_820_530_830] Replacement 6146Bs

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-04 16:20:00 UTC
From: Greg Anders
Topic: 22696 Message: 22699

RF Parts in San Marcos CA, or Surplus Sales of Nebraska. Get 6146W's.... There are still 5 Million or so of them NIB so the prices are reasonable.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of KA4AQM
Sent: Sunday, October 04, 2009 6:03 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Replacement 6146Bs

Ok guys and (gals?)

Where is best place we get 6146Bs for the TS-830S? Would prefer NOT to get Chinese made, but need good input for new/NOS tubes.
TNX in advance!
Randy
KA4AQM@...<mailto:KA4AQM%40cox.net>

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[Non-text portions of this message have been removed]

22700. It is gone. Re: TS-520 12 volt homebrew power cord.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-04 17:03:26 UTC
From: kd8aiv
Topic: 22685 Message: 22700

The power cord has been spoken for.

73,
Steve
KD8AIV

--- In TS-520_820_530_830@yahoogroups.com, "kd8aiv" <kd8aiv@...> wrote:
>
> Hello,
>
> I have a power cord with the 12 pin Molex connect that I made when I had my TS-520. I no longer have the radio but stubbled across the cord when I was cleaning up my shop. It has the Molex on one end and Anderson PowerPoles on the other with about 4 to 5 foot of cord. I am offering it up for free to anyone who may want it. I will ship it out anywhere in the continental US only. This is truely free, I will cover the cost of shipping. I just hate to throw something perfectly good away. Please email me if you are interested.
>
> Thanks,
> Steve,
> KD8AIV.
>

22701. Re: TS-520 12 volt homebrew power cord.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-04 17:02:11 UTC
From: kd8aiv
Topic: 22685 Message: 22701

Lee,

You are welcome. I will get it in the mail tomorrow morning and you should have it be Wednesday at the latest.

73,
Steve
KD8AIV

--- In TS-520_820_530_830@yahoogroups.com, Lehmen Keyes <leekeyes@...> wrote:
>
>
>
>
>
>
> _____
> From: kd8aiv <kd8aiv@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, October 3, 2009 10:00:35 PM
> Subject: [TS-520_820_530_830] Re: TS-520 12 volt homebrew power cord.
>
> Steve,,,,Thanks so much. I really enjoy working 10m (for right now) and we're approaching winter here in WV which means intermittent power outages. I already got a deep=discharge battery set up for my uhf-vhf rigs. this will complete my shack.
> Again, thanks so much.
> Lee Keyes
> HC82 Box 180E
> Marlinton WV 24954
>
>
> **********
>
> Lee,
>
> You are the first in line for the cord. You can email me your shipping address and I will get it in the mail on Monday.
>
> 73,
> Steve
> KD8AIV
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Lehmen Keyes <leekeyes@ .> wrote:
> >
> >
> >

> >
> >
> >
> > ___________ _________ _________ __
> > From: kd8aiv <kd8aiv@>
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Sent: Saturday, October 3, 2009 3:17:42 PM
> > Subject: [TS-520_820_ 530_830] TS-520 12 volt homebrew power cord.
> > If no one has beat me to it, I'd be happy to make my 520 even happier.
> > Lee KD8INW
> > .
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22702. Re: TS-820s blowing screen grid resistors.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-04 21:59:29 UTC
From: trippkj4bkd
Topic: 22690 Message: 22702

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
>
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "trippkj4bkd" <thomasenglish3@> wrote:
>
> > Hello,
> >
> > The 10 Ohm screen grid resistors will blow all of a sudden while in
> > idle with out pushing any kind of load.
> > Happens sometimes while tunning the pie network. And sometimes
> > while just in recieve.
>
>
> The TS-820's 10 ohm 1 watt resistors are the final tube's "cathode" resistors not "screen grid" resistors. They blow because of excessive current flowing through the final tubes.
>
>
> This can be caused by a number of things.
>
> 1. Short final tubes (one or both)
>
> 2. Bias supply has failed, tubes are not cut off in receive resulting in saturation current flowing in both final tubes.
>
> 3. Broken or intermittent bias circuit wiring to the final unit's "FG" terminal from the RF UNIT "FG" terminal.
>
> 4. Q5 on the RF UNIT has failed
>
> 5. Missing bias voltage at the RF UNIT's RF2 pin 7.
>
> 6. Bad bias pot
>
>
>
> Thanks so much for listing the possible things that can cause the Cathode resistors to blow and thanks for correcting me there as well.
I will check theese things out as time permits. I guess Bias supply would mean Bias Voltage Supply and what should that be about 50 to 60 mv.

thanks again
Tripp KJ4BKd

22703. RE TS 520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-05 00:01:29 UTC
From: ki4ghq
Topic: 22703 Message: 22703

I am waiting on my ts 520 to arrive plan to use 28.300 to 28.500
now until i can upgrade to genrael
what should i do when it arrives how shoud it be check out before i go on air do not want to smoke it

thanks and 73's
ki4ghq
malcolm

22704. Re: [TS-520_820_530_830] RE TS 520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-05 01:04:14 UTC
From: Dave ve3wej
Topic: 22703 Message: 22704

simple start, read the manual....

find someone local who has one, to show you how to operate it

---

From: "ki4ghq" <ki4ghq@...>
Sent: Sunday, October 04, 2009 8:01 PM
To: <TS-520_820_530_830@yahoogroups.com>
Subject: [TS-520_820_530_830] RE TS 520

> I am waiting on my ts 520 to arrive plan to use 28.300 to 28.500
> now until i can upgrade to genrael
> what should i do when it arrives how shoud it be check out before i go on
> air do not want to smoke it
>
> thanks and 73's
> ki4ghq
> malcolm
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

22705. Looking for 455Khz Trio/Kenwood Crystal Filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-05 01:38:36 UTC
From: Tate Antrim
Topic: 22705 Message: 22705

If you have the solder in YG-455C filter that fits the TS-830S and are willing to part with it, I'm looking for one. Please contact me off list.

Thanks

KD8HJA

Tate

[Non-text portions of this message have been removed]

22706. BS5 connection on 520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-05 02:46:40 UTC
From: Frank VK5KV
Topic: 22706 Message: 22706

Howdy Group,

Has anyone connected the SM220 with BS5 to the location described in the SM220 manual??? Looking for comments and I cant figure how you can get it to work properly after the SSB Filter on the IF board. I have connected mine at the input point of the IF board which comes from the Noise Blanker board with good results, However RX sensitivity does suffer, anyone worked a fix for this as the BS5 seems to load down the input level to the IF Board even after adjustment of transformer sections in that area.

Cheers Frank VK5KV..

22707. RE: [TS-520_820_530_830] Looking for 455Khz Trio/Kenwood Crystal Filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-05 04:50:29 UTC
From: Dick Merryman
Topic: 22705 Message: 22707

Tate-

The YG-455C-1, which is a YG-455C on a carrier board with connectors, will fit in the TS-830S if it is removed (unsolder) from its carrier board. The two filters are identical except for the carrier board. YG-455C-1 filters are readily available on eBay and elsewhere.

-Dick-
N3XRU

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Tate Antrim
Sent: Sunday, October 04, 2009 6:39 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Looking for 455Khz Trio/Kenwood Crystal Filter

If you have the solder in YG-455C filter that fits the TS-830S and are willing to part with it, I'm looking for one. Please contact me off list.

Thanks

KD8HJA

Tate

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

22708. RE: [TS-520_820_530_830] RE TS 520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-05 05:10:57 UTC
From: Dick Merryman
Topic: 22703 Message: 22708

Malcolm-

Congratulations. The 520 is a great transceiver. That was my first rig and I still have it and use it alongside of my 1000MP.

First thing is to read and understand the manual. If you don't have one get it from http://www.kg6haf.com/kenwood.html .

Next, go to http://www.K4EAA.com and read everything on his entire web site. Pay particular attention to his instructions for loading up a Kenwood hybrid and to what to check if a hybrid is overdriven. Also, closely study all of his pictures and examples of what goes wrong and how best to fix it. Note that in addition to transceiver service he sells a variety of commonly needed repair parts.

Thirdly, open the case, top and bottom, including the final cage, and closely inspect everything using what you learned on K4EAA's site. This would be a good time to clean all pots and variable caps with contact cleaner and to loosen and re-tighten all of the screws that hold the PC boards down. These screws provide the ground path for the boards.

Finally, close it up, hook it to a dummy load, power it up and see if it loads. K4EAA's site will have taught you what to look for regarding failing final or driver tubes as well as power supply electrolytics.

Don't skip any steps. I just got a new TS-830S on Friday and managed to blow it up in the first 30 minutes because I didn't follow my own advice about cleaning the pots and caps.

OK, pal, have at it and enjoy yourself. Get that General upgrade and the whole world will open up to you. Then you'll notice that the Extra portion of the bands are generally less noisy and you'll have to upgrade again. A month should be sufficient!

The very best 73,

-Dick-
N3XRU

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of ki4ghq
Sent: Sunday, October 04, 2009 5:01 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] RE TS 520

I am waiting on my ts 520 to arrive plan to use 28.300 to 28.500
now until i can upgrade to genrael
what should i do when it arrives how shoud it be check out before i go on
air do not want to smoke it

thanks and 73's
ki4ghq
malcolm

[Non-text portions of this message have been removed]

22709. Re: [TS-520_820_530_830] Re: TS-820s blowing screen grid resistors.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-05 06:50:13 UTC
From: Gordon JC Pearce
Topic: 22690 Message: 22709

On Sun, 2009-10-04 at 03:40 +0000, w5rkl wrote:
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "trippkj4bkd" <thomasenglish3@...> wrote:
>
> > Hello,
> > >
> > > The 10 Ohm screen grid resistors will blow all of a sudden while in
> > > idle with out pushing any kind of load.
> > > Happens sometimes while tunning the pie network. And sometimes
> > > while just in recieve.
>
>
> The TS-820's 10 ohm 1 watt resistors are the final tube's "cathode" resistors not "screen grid" resistors. They blow because of excessive current flowing through the final tubes.
>
>
> This can be caused by a number of things.
>

<snip>

You left out old age ;-)

These rigs are 20 years old *at least* now. The carbon comp resistors in the PA have had a good life. Time to get some nice new metal film ones.

Incidentally, when the carbon comp resistors in my TS-520 crumbled and fell apart, I could only find 10ohm 2W wirewounds and 1/4W metal film 22 ohm resistors. I stuck four of the 1/4W resistors in and ran the PA up to about 25W. There was no appreciable RF across the cathode resistor, unsurprising since it's heavily decoupled by C8, C9, C10, C11, C12 and C13. Now, you can't use wirewounds with RF, but since there wasn't really any RF there I reasoned that the wirewounds would be okay. So, I fitted them, and on turning the wick up there was *still* no RF across them and a lovely clean output with no significant harmonics or weirdness. The only thing is that they are a higher power rating, which I'm a little unhappy about because as has been pointed out they are designed to fail preferentially.

The 10 ohm 1W metal film resistors have now arrived, but I'm unlikely to fire up the TS-520 before I move house (to a nice little farm cottage with a big garden and only one near neighbour who doesn't own a plasma

TV). I'll fit them before I give it any serious use again.

Gordon MM0YEQ

22710. TS-830M information

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-05 11:54:18 UTC
From: sv0xbq
Topic: 22710 Message: 22710

Hi everyone. Does anyone have any detailed information on the TS-830M
What years they were made, serial numbers and any comparisons between this and the TS-830S.

I've got a TS-830M on the way to hopefully replace my 520SE

Chris

22711. Re: TS-820s blowing screen grid resistors.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-05 11:53:08 UTC
From: w5rkl
Topic: 22690 Message: 22711

> > Thanks so much for listing the possible things that can cause the Cathode resistors to blow and thanks for correcting me there as well.
> I will check theese things out as time permits. I guess Bias supply would mean Bias Voltage Supply and what should that be about 50 to 60 mv.
>
> thanks again
> Tripp KJ4BKd
>

Hello Tripp,

Yes, bias supply means bias voltage supply. The bias supply is located on the Rectifier Unit on the bottom of the TS-820 next to the power transformer. The bias supply output is labeled "-C" on the TS-820 Rectifier Unit schematic.

The bias supply produces a "negative" voltage of approximately -100 volts DC or so, not "mv" (milli-volts).

The bias control located on the rear of the TS-820 controls the level bias voltage applied to the final tube grids for the final tube's normal no signal transmit idling current of 60ma (see the TS-820 operating manual for details).

If you do not have the TS-820 operating and service manuals, I recommend download them from N6WK's website at

http://www.n6wk.com/kenwood/

Scroll down the page and click on the appropriate link. The files are in pdf format which requires the Adobe reader to view the files.

If your technical, troubleshooting, and repair skills are limited then may I recommend enlisting the help of a local ham who has the necessary skills to help you troubleshoot and repair your TS-820.

73's
Mike W5RKL

22712. TS-530S Distorted TX Audio

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-05 15:18:28 UTC
From: ah6rr1
Topic: 22712 Message: 22712

A while back I had posted a problem with a 530 that had distorted audio on transmit. I got a few sugestions on what could be the problem, microphone ect. Well I found the problem the HV caps were weak when you turned the rig on the HV would go to 750V then climb to 800V slowly. As soon as you turned the radio of the voltage dropped to 0 almost instantly. So I ordered replacement caps since I was at it I ordered replacement eletrolitic caps for all the boards and replaced them as well.
Now when I turn the rig on the HV goes to 900V no load and runs 825-850V on TX there is no distorted audio. I am getting 125W PEP out and getting great Kenwood audio reports.
I repainted (sprayed) the cabinet with some Rust-Stop I had matched at ACE, 1 quart for $10, nobody wants to ship matching paint to Hawaii :-(. It is a slight bit darker than the factory but looks fantasic. I also found a Rustoleum product the is a very close match to the face plate and touched that up as well. Added some new stainless steel screws and the radio looks and works like a shiney new penny. Now I need to find what to use the rest of the quart of paint on.
73
Roland AH6RR

22713. TS-520 CW Filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-05 16:26:33 UTC
From: Jerry Keller
Topic: 22713 Message: 22713

I just bought a TS-520 at a hamfest.... my first "older rig", and I'm a newbie to this reflector. I wanted to try a restoration project, and this TS-520 was so nice-looking I couldn't resist. Going through it, the worst problem I see so far is what seem to be broadcast station "images" in the 80M band. My friend Chuck (who is patiently trying to teach me troubleshooting and repair methods) thinks the problem may be in the ant trap circuit. The more I see of this hybrid rig, the better I like it.... I guess I've been "Kenwood - deprived" all these years.... 8^)

It doesn't have the optional CW crystal filter, and the manual indicates a YG-3395C CW Filter is correct. How narrow is this filter, and where can I get one? Can I use the T-88C I see on ebay in the TS-520?

73, Jerry K3BZ

[Non-text portions of this message have been removed]

22714. Re: TS830S - no output after replacing finals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-05 18:16:42 UTC
From: n1326e
Topic: 22629 Message: 22714

Mike,

Well, I've finished the cleaning and resecuring of ground screws and the problem continues. Also, now the freq. readout doesn't follow the VFO so I've bumped or changed something. I tried to disconnect and reconnect the various PLL and Counter plugs again but no help.

Any further suggestions?

Tom
WB3JHP

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> I confused your 830 with an 820.
>
> The 830 PLL UNIT and COUNTER UNIT do not have 2 boards, only one each. The 830's PLL and COUNTER UNIT are connected to the wiring harness through various plugs so cleaning of the plugs and pins, checking all grounds including the board mounting screws, is important.
>
> Sorry for confusing the 820 PLL UNIT and COUNTER UNIT enclosures with the 830. I still believe your problem is about dirty contacts.
>
> 73's
> Mike W5RKL

22715. Re: [TS-520_820_530_830] TS-520 CW Filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-05 17:41:50 UTC
From: Marucs Rodgers Sr.
Topic: 22713 Message: 22715

Jerry i don't know a thing about repair but i have the ts 520s and the ts520se. I love them a real work horse. The ts 520 se has the T-88c in it works great. AB8WR Marcus

--- On Mon, 10/5/09, Jerry Keller <k3bz@...> wrote:

> From: Jerry Keller <k3bz@...>
> Subject: [TS-520_820_530_830] TS-520 CW Filter
> To: "(REFLECTOR) TS-520" <TS-520_820_530_830@yahoogroups.com>
> Date: Monday, October 5, 2009, 12:26 PM
> I just bought a TS-520 at a
> hamfest.... my first "older rig", and I'm a newbie to this
> reflector. I wanted to try a restoration project, and
> this TS-520 was so nice-looking I couldn't resist.
> Going through it, the worst problem I see so far is what
> seem to be broadcast station "images" in the 80M band.
> My friend Chuck (who is patiently trying to teach me
> troubleshooting and repair methods) thinks the problem may
> be in the ant trap circuit. The more I see of this
> hybrid rig, the better I like it.... I guess I've been
> "Kenwood - deprived" all these years.... 8^)
>
> It doesn't have the optional CW crystal filter, and the
> manual indicates a YG-3395C CW Filter is correct. How
> narrow is this filter, and where can I get one? Can I
> use the T-88C I see on ebay in the TS-520?
>
> 73, Jerry K3BZ
>
> [Non-text portions of this message have been removed]
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>   mailto:TS-520_820_530_830-fullfeatured@yahoogroups.com
>
>
>

22716. Re: [TS-520_820_530_830] TS-520 CW Filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-05 18:42:24 UTC
From: John Davidson
Topic: 22713 Message: 22716

I have had my TS520 since new, never noticed any "ant trap" kind of circuit in it.
I HAVE heard third harmonic of AM 1270 station that was 5 kW, 4 miles from me, on 80M.Third harmonics of AM transmitters on 1160-1300 fall on 80M band.\
I see you are 19 miles from KYW 1060, who runs 50KW ! also within 13-19 miles of stations on 860, 950,990 kHz, all over 10 kW ;who could be mixing signals in some metal junction near you.
Good luck with the 520, mine has been a workhorse and really trouble free. The worse thing for the hybrids is letting them sit idle.
73.....JD

--- On Mon, 10/5/09, Jerry Keller <k3bz@...> wrote:

I just bought a TS-520 at a hamfest.... my first "older rig", , the worst problem I see so far is what seem to be broadcast station "images" in the 80M band. My friend Chuck (who is patiently trying to teach me troubleshooting and repair methods) thinks the problem may be in the ant trap circuit. 73, Jerry K3BZ

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

22717. Re: [TS-520_820_530_830] TS-520 CW Filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-05 18:47:03 UTC
From: John Davidson
Topic: 22713 Message: 22717

When I brought my 520 home, hooked it up and started listening, the next thing I did was get on the phone and order the 400 HZ CW filter. It was totally useless to me with just the SSB filter !!!!!

--- On Mon, 10/5/09, Jerry Keller <k3bz@...> wrote:

From: Jerry Keller <k3bz@...>
5, 2009, 12:26 PM

I just bought a TS-520 at a hamfest.... my first "older rig", It doesn't have the optional CW crystal filter73, Jerry K3BZ

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

22718. Re: [TS-520_820_530_830] TS-520 CW Filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-05 18:56:00 UTC
From: Dave Kalter
Topic: 22713 Message: 22718

Yep, I have a pair of 520's not the "s" . Both have an image of WHIO on 1290 (less than 2 miles from me) on 3870-3872. dang, i have to go to my brothers house to listen to the "Marconi net" hi hi. who cares....the rest of the band plays great.
73
Dave KB8OCP

--- On Mon, 10/5/09, John Davidson <k8jd@...> wrote:

From: John Davidson <k8jd@...>
Subject: Re: [TS-520_820_530_830] TS-520 CW Filter
To: TS-520_820_530_830@yahoogroups.com
Date: Monday, October 5, 2009, 6:42 PM

I have had my TS520 since new, never noticed any "ant trap" kind of circuit in it.
I HAVE heard third harmonic of AM 1270 station that was 5 kW, 4 miles from me, on 80M.Third harmonics of AM transmitters on 1160-1300 fall on 80M band.\
I see you are 19 miles from KYW 1060, who runs 50KW ! also within 13-19 miles of stations on 860, 950,990 kHz, all over 10 kW ;who could be mixing signals in some metal junction near you.
Good luck with the 520, mine has been a workhorse and really trouble free. The worse thing for the hybrids is letting them sit idle.
73.....JD

--- On Mon, 10/5/09, Jerry Keller <k3bz@...> wrote:

I just bought a TS-520 at a hamfest.... my first "older rig", , the worst problem I see so far is what seem to be broadcast station "images" in the 80M band. My friend Chuck (who is patiently trying to teach me troubleshooting and repair methods) thinks the problem may be in the ant trap circuit. 73, Jerry K3BZ

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

22719. Re: TS-520 CW Filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-05 19:08:00 UTC
From: w5rkl
Topic: 22713 Message: 22719

--- In TS-520_820_530_830@yahoogroups.com, "Jerry Keller" <k3bz@...> wrote:
>
> I just bought a TS-520 at a hamfest.... my first "older rig", and I'm a newbie to this reflector. I wanted to try a restoration project, and this TS-520 was so nice-looking I couldn't resist. Going through it, the worst problem I see so far is what seem to be broadcast station "images" in the 80M band. My friend Chuck (who is patiently trying to teach me troubleshooting and repair methods) thinks the problem may be in the ant trap circuit.

If you friend Chuck is referring the T6 and T7 coils on the TS-520's RF UNIT then those are not commercial signal traps.

T6 and T7 on the TS-520's RF UNIT are traps for the 8.395Mhz (T6) and 8.895Mhz (T7) signals (See the TS-520S service manual, page 48, paragraph 8 for details on adjusting both coils).

> The more I see of this hybrid rig, the better I like it.... I guess
> I've been "Kenwood - deprived" all these years.... 8^)
>
> It doesn't have the optional CW crystal filter, and the manual
> indicates a YG-3395C CW Filter is correct.

Yes, that is the original Kenwood CW filter. The original Kenwood filter has a bandwidth of 500hz. Unfortunately, that filter is no longer available "new" from Kenwood. You can find them quite often "used" on eBay and other ham forum sales sections. However, you can obtain a "new" and much better CW filter through INRAD. See the following website link for details.

www.inrad.net/

The INRAD filter is slightly larger than the original Kenwood filter. I have installed a number of these filters in 520 and 530 radios and I can say they do an excellent job in CW.

> How narrow is this
> filter, and where can I get one? Can I use the T-88C I see on ebay
> in the TS-520?

My recommendation is to purchase a new INRAD filter instead of a "used" filter, but that's me. Ultimately it's up to you which one you choose.

>
> 73, Jerry K3BZ
>
> [Non-text portions of this message have been removed]
>

I recommend going over the 520, performing a thorough visual inspection. You would be surprised what problems you can find by simply performing a thorough visual inspection.

I've found bad capacitors, burnt resistors, and poor soldering connection made by previous owners through a thorough visual inspections. I do not recommend applying power until this has been done and you are certain there are no serious problems that could result in abnormal operation that could end up smoking resistors, blow up capacitors, and/or damage the power transformer. Always check the front panel switches, especially the "SEND" switch before applying power! Don't relay on the seller's comments, "it works great! I had it on last night!" Also do relay on how good a radio looks. I've seen radios that look like they just came out of the factory yet when power is applied, the dreaded "snap, crackle, pop, bang, and smoke flows out" occurs! Do your thorough visual inspection homework first!

When inspecting filter capacitors, any capacitor that has a bulge or broken blister on one end, that capacitor should be replaced. The bulge or broken blister are caused by excessive heat pressure build up inside the capacitor from over stressing the power supply the capacitor is in. Age also can result in increase leakage current which can cause the same symptoms.

The HV filter capacitors, C19 and C20, are located directly behind the VFO. When replacing these capacitors, replace the equalizing resistors (470K 1/2 watt) and both disc capacitors (.01ufd 1KV). The original disc caps are rated at 500VDC so I recommend increasing the voltage rating of these disc caps to 1KV each. Ken, K4EAA (k4eaa.com), sells a HV filter capacitor replacement kit.

The bias supply, located on the Rectifier Unit, has two 33ufd 160VDC axial lead capacitors. I recommend replacing these with new caps as well. Mouser electronics sells these caps.

I also recommend replacing C20 and C21, both 2200ufd 16VDC, filter capacitors. These capacitors are the filter caps for the 14VDC supply. The 14VDC supply powers numerous circuits and both relays, plus it is the base supply for the 3VDC and 9VDC supply that is on the FIX AVR UNIT. Most 520's I've seen, the voltage rating for C20 and C21 has been "16VDC". I recommend increasing that voltage rating to 25VDC.

The 210A/210B/300A/300B filter capacitors, C15 and C16, (located under the VOX UNIT PC board, left top rear) each can has two 22ufd 450VDC capacitors inside (dual capacitor cans), are no longer available. To replace these capacitors, C15 and C16, individual 22ufd 450VDC capacitors must be used.

Check the tubes, 12BY7 driver and both 6146 final tubes for shorts and conduction.

Clean all the dust and dirt from the final cage cooling fan blades and the final cage components. Do not forget to clean the band switch wafers inside the final cage with contact cleaner.

Remove both relays, one is located under the VOX UNIT and the other is located under the FINAL UNIT between the final unit PC board and the rear panel, small metal enclosure. Clean the contacts and reinstall the relays.

I always recommend using canned air, available at Walmart, to remove dust, dirt, and excess contact cleaner.

Ensure all grounds are clean and tight, whether they are attached to a screw to the chassis or the PC board mounting screws. Over time, those grounds and mounting screws will come loose resulting in erratic behavior. Your choice of cleaner is up to you, I use DeoXit.

73's
Mike W5RKL

22720. Re: [TS-520_820_530_830] TS-830M information

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-05 21:51:48 UTC
From: pmarkavage
Topic: 22710 Message: 22720

Same as the TS-830S except it has the AM board and a 6 kHz AM filter. The 830M was never distributed in the U. S.

Pete, wa2cwa

On Mon, 05 Oct 2009 11:54:18 -0000 "sv0xbq" <alexandchrisp@...> writes:
> Hi everyone. Does anyone have any detailed information on the
> TS-830M
> What years they were made, serial numbers and any comparisons
> between this and the TS-830S.
>
> I've got a TS-830M on the way to hopefully replace my 520SE
>
> Chris

22721. Re: TS830S - no output after replacing finals

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-05 22:07:43 UTC
From: n1326e
Topic: 22629 Message: 22721

I found the Digital Readout problem and it was ME !!!! I inadvertantly depressed the DH button while doing the cleaning. But the other original problems remain....on to the next step I guess. Please advise.

Tom

--- In TS-520_820_530_830@yahoogroups.com, "n1326e" <mtnest@...> wrote:
>
>
> Mike,
>
> Well, I've finished the cleaning and resecuring of ground screws and the problem continues. Also, now the freq. readout doesn't follow the VFO so I've bumped or changed something. I tried to disconnect and reconnect the various PLL and Counter plugs again but no help.
>
> Any further suggestions?
>
> Tom
> WB3JHP
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > I confused your 830 with an 820.
> >
> > The 830 PLL UNIT and COUNTER UNIT do not have 2 boards, only one each. The 830's PLL and COUNTER UNIT are connected to the wiring harness through various plugs so cleaning of the plugs and pins, checking all grounds including the board mounting screws, is important.
> >
> > Sorry for confusing the 820 PLL UNIT and COUNTER UNIT enclosures with the 830. I still believe your problem is about dirty contacts.
> >
> > 73's
> > Mike W5RKL
>

22722. Re: [TS-520_820_530_830] TS-520 CW Filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-05 20:45:29 UTC
From: John Davidson
Topic: 22713 Message: 22722

This is the 3rd harmonic, not an "image" at all. Do the math.
Get in touch of the chief engr and see if he will put a trap in the output circuit ! Should be easy to do, simple parallel coil and cpacitor, and will knock them out of 75M !
--- On Mon, 10/5/09, Dave Kalter <kb8ocp@...> wrote:

From: Dave Kalter <kb8ocp@...>
Subject: Re: [TS-520_820_530_830] TS-520 CW Filter
To: TS-520_820_530_830@yahoogroups.com
Date: Monday, October 5, 2009, 2:56 PM

Yep, I have a pair of 520's not the "s" . Both have an image of WHIO on 1290 (less than 2 miles from me) on 3870-3872. dang, i have to go to my brothers house to listen to the "Marconi net" hi hi. who cares....the rest of the band plays great.
73
Dave KB8OCP

--- On Mon, 10/5/09, John Davidson <k8jd@...> wrote:

From: John Davidson <k8jd@...>
Subject: Re: [TS-520_820_ 530_830] TS-520 CW Filter
To: TS-520_820_530_ 830@yahoogroups. com
Date: Monday, October 5, 2009, 6:42 PM

I have had my TS520 since new, never noticed any "ant trap" kind of circuit in it.
I HAVE heard third harmonic of AM 1270 station that was 5 kW, 4 miles from me, on 80M.Third harmonics of AM transmitters on 1160-1300 fall on 80M band.\
I see you are 19 miles from KYW 1060, who runs 50KW ! also within 13-19 miles of stations on 860, 950,990 kHz, all over 10 kW ;who could be mixing signals in some metal junction near you.
Good luck with the 520, mine has been a workhorse and really trouble free. The worse thing for the hybrids is letting them sit idle.
73.....JD

--- On Mon, 10/5/09, Jerry Keller <k3bz@...> wrote:

I just bought a TS-520 at a hamfest.... my first "older rig", , the worst problem I see so far is what seem to be broadcast station "images" in the 80M band. My friend Chuck (who is patiently trying to teach me troubleshooting and repair methods) thinks the problem may be in the ant trap circuit. 73, Jerry K3BZ

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22723. for salets520s hf transciver

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-05 23:13:36 UTC
From: mark
Topic: 22723 Message: 22723

ts520shftransciveraskin210.00 plusshipiing

22724. Re: [TS-520_820_530_830] TS-520 CW Filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-06 01:02:07 UTC
From: Jerry Keller
Topic: 22713 Message: 22724

Isn't the input trap circuit supposed to filter those out? I was thinking that the input trap circuit might be misaligned.
My other receivers don't have that problem.

73, Jerry K3BZ
----- Original Message -----
From: John Davidson
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, October 05, 2009 4:45 PM
Subject: Re: [TS-520_820_530_830] TS-520 CW Filter

This is the 3rd harmonic, not an "image" at all. Do the math.
Get in touch of the chief engr and see if he will put a trap in the output circuit ! Should be easy to do, simple parallel coil and cpacitor, and will knock them out of 75M !
--- On Mon, 10/5/09, Dave Kalter <kb8ocp@...> wrote:

From: Dave Kalter <kb8ocp@...>
Subject: Re: [TS-520_820_530_830] TS-520 CW Filter
To: TS-520_820_530_830@yahoogroups.com
Date: Monday, October 5, 2009, 2:56 PM

Yep, I have a pair of 520's not the "s" . Both have an image of WHIO on 1290 (less than 2 miles from me) on 3870-3872. dang, i have to go to my brothers house to listen to the "Marconi net" hi hi. who cares....the rest of the band plays great.
73
Dave KB8OCP

--- On Mon, 10/5/09, John Davidson <k8jd@...> wrote:

From: John Davidson <k8jd@...>
Subject: Re: [TS-520_820_ 530_830] TS-520 CW Filter
To: TS-520_820_530_ 830@yahoogroups. com
Date: Monday, October 5, 2009, 6:42 PM

I have had my TS520 since new, never noticed any "ant trap" kind of circuit in it.
I HAVE heard third harmonic of AM 1270 station that was 5 kW, 4 miles from me, on 80M.Third harmonics of AM transmitters on 1160-1300 fall on 80M band.\
I see you are 19 miles from KYW 1060, who runs 50KW ! also within 13-19 miles of stations on 860, 950,990 kHz, all over 10 kW ;who could be mixing signals in some metal junction near you.
Good luck with the 520, mine has been a workhorse and really trouble free. The worse thing for the hybrids is letting them sit idle.
73.....JD

--- On Mon, 10/5/09, Jerry Keller <k3bz@...> wrote:

I just bought a TS-520 at a hamfest.... my first "older rig", , the worst problem I see so far is what seem to be broadcast station "images" in the 80M band. My friend Chuck (who is patiently trying to teach me troubleshooting and repair methods) thinks the problem may be in the ant trap circuit. 73, Jerry K3BZ

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[Non-text portions of this message have been removed]

Yahoo! Groups Links

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22725. Re: [TS-520_820_530_830] Re: TS-520 CW Filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-06 02:04:06 UTC
From: Jerry Keller
Topic: 22713 Message: 22725

Thanks, Mike... a long list, but I'll try to do it all....

73, Jerry K3BZ
----- Original Message -----
From: w5rkl
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, October 05, 2009 3:08 PM
Subject: [TS-520_820_530_830] Re: TS-520 CW Filter

--- In TS-520_820_530_830@yahoogroups.com, "Jerry Keller" <k3bz@...> wrote:
>
> I just bought a TS-520 at a hamfest.... my first "older rig", and I'm a newbie to this reflector. I wanted to try a restoration project, and this TS-520 was so nice-looking I couldn't resist. Going through it, the worst problem I see so far is what seem to be broadcast station "images" in the 80M band. My friend Chuck (who is patiently trying to teach me troubleshooting and repair methods) thinks the problem may be in the ant trap circuit.

If you friend Chuck is referring the T6 and T7 coils on the TS-520's RF UNIT then those are not commercial signal traps.

T6 and T7 on the TS-520's RF UNIT are traps for the 8.395Mhz (T6) and 8.895Mhz (T7) signals (See the TS-520S service manual, page 48, paragraph 8 for details on adjusting both coils).

> The more I see of this hybrid rig, the better I like it.... I guess
> I've been "Kenwood - deprived" all these years.... 8^)
>
> It doesn't have the optional CW crystal filter, and the manual
> indicates a YG-3395C CW Filter is correct.

Yes, that is the original Kenwood CW filter. The original Kenwood filter has a bandwidth of 500hz. Unfortunately, that filter is no longer available "new" from Kenwood. You can find them quite often "used" on eBay and other ham forum sales sections. However, you can obtain a "new" and much better CW filter through INRAD. See the following website link for details.

www.inrad.net/

The INRAD filter is slightly larger than the original Kenwood filter. I have installed a number of these filters in 520 and 530 radios and I can say they do an excellent job in CW.

> How narrow is this
> filter, and where can I get one? Can I use the T-88C I see on ebay
> in the TS-520?

My recommendation is to purchase a new INRAD filter instead of a "used" filter, but that's me. Ultimately it's up to you which one you choose.

>
> 73, Jerry K3BZ
>
> [Non-text portions of this message have been removed]
>

I recommend going over the 520, performing a thorough visual inspection. You would be surprised what problems you can find by simply performing a thorough visual inspection. I've found bad capacitors, burnt resistors, and poor soldering connection made by previous owners through a thorough visual inspections. I do not recommend applying power until this has been done and you are certain there are no serious problems that could result in abnormal operation that could end up smoking resistors, blow up capacitors, and/or damage the power transformer. Always check the front panel switches, especially the "SEND" switch before applying power! Don't relay on the seller's comments, "it works great! I had it on last night!" Also do relay on how good a radio looks. I've seen radios that look like they just came out of the factory yet when power is applied, the dreaded "snap, crackle, pop, bang, and smoke flows out" occurs! Do your thorough visual inspection homework first!

When inspecting filter capacitors, any capacitor that has a bulge or broken blister on one end, that capacitor should be replaced. The bulge or broken blister are caused by excessive heat pressure build up inside the capacitor from over stressing the power supply the capacitor is in. Age also can result in increase leakage current which can cause the same symptoms.

The HV filter capacitors, C19 and C20, are located directly behind the VFO. When replacing these capacitors, replace the equalizing resistors (470K 1/2 watt) and both disc capacitors (.01ufd 1KV). The original disc caps are rated at 500VDC so I recommend increasing the voltage rating of these disc caps to 1KV each. Ken, K4EAA (k4eaa.com), sells a HV filter capacitor replacement kit.

The bias supply, located on the Rectifier Unit, has two 33ufd 160VDC axial lead capacitors. I recommend replacing these with new caps as well. Mouser electronics sells these caps.

I also recommend replacing C20 and C21, both 2200ufd 16VDC, filter capacitors. These capacitors are the filter caps for the 14VDC supply. The 14VDC supply powers numerous circuits and both relays, plus it is the base supply for the 3VDC and 9VDC supply that is on the FIX AVR UNIT. Most 520's I've seen, the voltage rating for C20 and C21 has been "16VDC". I recommend increasing that voltage rating to 25VDC.

The 210A/210B/300A/300B filter capacitors, C15 and C16, (located under the VOX UNIT PC board, left top rear) each can has two 22ufd 450VDC capacitors inside (dual capacitor cans), are no longer available. To replace these capacitors, C15 and C16, individual 22ufd 450VDC capacitors must be used.

Check the tubes, 12BY7 driver and both 6146 final tubes for shorts and conduction.

Clean all the dust and dirt from the final cage cooling fan blades and the final cage components. Do not forget to clean the band switch wafers inside the final cage with contact cleaner.

Remove both relays, one is located under the VOX UNIT and the other is located under the FINAL UNIT between the final unit PC board and the rear panel, small metal enclosure. Clean the contacts and reinstall the relays.

I always recommend using canned air, available at Walmart, to remove dust, dirt, and excess contact cleaner.

Ensure all grounds are clean and tight, whether they are attached to a screw to the chassis or the PC board mounting screws. Over time, those grounds and mounting screws will come loose resulting in erratic behavior. Your choice of cleaner is up to you, I use DeoXit.

73's
Mike W5RKL

Yahoo! Groups Links

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22726. Re: [TS-520_820_530_830] for salets520s hf transciver

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-06 02:42:34 UTC
From: probe
Topic: 22723 Message: 22726

Doesthisrigcomewithamanualoriginalboxpowercordandalsowhatistheserialnumber?thnxswb
----- Original Message -----
From: mark
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, October 05, 2009 4:13 PM
Subject: [TS-520_820_530_830] for salets520s hf transciver

ts520shftransciveraskin210.00 plusshipiing

[Non-text portions of this message have been removed]

22727. Re: [TS-520_820_530_830] Re: TS-820s blowing screen grid resistors.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-05 05:56:12 UTC
From: Robert DROGOUL
Topic: 22690 Message: 22727

Hi Tripp
Just beware, it's not 50/60 mv, but minus 50 or minus 60 VOLTS!!!
At 60 mv the 6146 is blown sky hight!!!
73
F5UL Bob

[Non-text portions of this message have been removed]

22728. Re: [TS-520_820_530_830] TS-520 CW Filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-06 13:27:08 UTC
From: Howard Weinstein
Topic: 22713 Message: 22728

2nd Harmonic - not 3rd.

transmit/fundamental - 1290 KHz
1st harmonic - 2580 KHz
2nd harmonic - 3870 KHz

--- On Mon, 10/5/09, John Davidson <k8jd@yahoo.com> wrote:

From: John Davidson <k8jd@...>
Subject: Re: [TS-520_820_530_830] TS-520 CW Filter
To: TS-520_820_530_830@yahoogroups.com
Date: Monday, October 5, 2009, 4:45 PM

This is the 3rd harmonic, not an "image" at all. Do the math.
Get in touch of the chief engr and see if he will put a trap in the output circuit ! Should be easy to do, simple parallel coil and cpacitor, and will knock them out of 75M !
--- On Mon, 10/5/09, Dave Kalter <kb8ocp@yahoo. com> wrote:

From: Dave Kalter <kb8ocp@yahoo. com>
Subject: Re: [TS-520_820_ 530_830] TS-520 CW Filter
To: TS-520_820_530_ 830@yahoogroups. com
Date: Monday, October 5, 2009, 2:56 PM

Yep, I have a pair of 520's not the "s" . Both have an image of WHIO on 1290 (less than 2 miles from me) on 3870-3872. dang, i have to go to my brothers house to listen to the "Marconi net" hi hi. who cares....the rest of the band plays great.
73
Dave KB8OCP

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From: John Davidson <k8jd@...>
Subject: Re: [TS-520_820_ 530_830] TS-520 CW Filter
To: TS-520_820_530_ 830@yahoogroups. com
Date: Monday, October 5, 2009, 6:42 PM

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I see you are 19 miles from KYW 1060, who runs 50KW ! also within 13-19 miles of stations on 860, 950,990 kHz, all over 10 kW ;who could be mixing signals in some metal junction near you.
Good luck with the 520, mine has been a workhorse and really trouble free. The worse thing for the hybrids is letting them sit idle.
73.....JD

--- On Mon, 10/5/09, Jerry Keller <k3bz@...> wrote:

I just bought a TS-520 at a hamfest.... my first "older rig", , the worst problem I see so far is what seem to be broadcast station "images" in the 80M band. My friend Chuck (who is patiently trying to teach me troubleshooting and repair methods) thinks the problem may be in the ant trap circuit. 73, Jerry K3BZ

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[Non-text portions of this message have been removed]

22729. Re: [TS-520_820_530_830] TS-520 CW Filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-06 03:20:58 UTC
From: Jerry Keller
Topic: 22713 Message: 22729

On page 28 of the 520 manual, the Receiver section refers to theincoming signal being "fed through the antenna coil". The Block Diagram (Fig. 12) on page 29 shows the incoming signal travelling through a "trap coil" on its way to the RF amp. I put these two together and came up with "ant trap circuit".... sorry.

73, Jerry K3BZ
----- Original Message -----
From: John Davidson
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, October 05, 2009 2:42 PM
Subject: Re: [TS-520_820_530_830] TS-520 CW Filter

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I HAVE heard third harmonic of AM 1270 station that was 5 kW, 4 miles from me, on 80M.Third harmonics of AM transmitters on 1160-1300 fall on 80M band.\
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73.....JD

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Yahoo! Groups Links

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22730. RF output meter not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-06 16:35:47 UTC
From: scott_n2ddd
Topic: 22730 Message: 22730

Hello Everyone,
I have a TS-830S. Output power is 100W+ but the RF meter on the rig does not move. The meter works in every other position. I cleaned the METER switch and the RF VOLT pot on the back, but it did not help. Any thoughts/ideas?
Thanks for any input!
73 Scott N2DDD

22731. Re: [TS-520_820_530_830] RF output meter not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-06 17:10:31 UTC
From: Ken Winterling
Topic: 22730 Message: 22731

Scott,

If the meter is working in other modes and you have cleaned the RF position of the meter switch the fault is likely in the relative RF output detector or the interconnecting wiring. There are only a few components involved in the RF detector.

Take a look at the schematic and find the ANT jack on the right side just above the EXT VFO and X.VTER jacks. Just above the ANT jack is the T/R relay, RL1-1, contacts. The RF detector circuitry is just to the left of the ANT jack and RL1-1 and consists of two fixed resistors, two caps, and a 1N60 germanium diode, as well as the pot you already cleaned.

The diode is probably the culprit but you should also check the values of the resistors while you are in there as well as all of the solder joints. If you don't have a 1N60 you could substitute a 1N34A.

Good luck and report back what you find to be the problem.

Ken, WA2LBI

On Tue, Oct 6, 2009 at 12:35, scott_n2ddd <scott_n2ddd@...> wrote:

> Hello Everyone,
> I have a TS-830S. Output power is 100W+ but the RF meter on the rig does
> not move. The meter works in every other position. I cleaned the METER
> switch and the RF VOLT pot on the back, but it did not help. Any
> thoughts/ideas?
> Thanks for any input!
> 73 Scott N2DDD
>
>

[Non-text portions of this message have been removed]

22732. ts 520 rf power

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-06 17:10:35 UTC
From: w1ltx
Topic: 22732 Message: 22732

hello
i have the ts 520 kenwood when i go to cw mode and tune the rf output the meter goes all the way over is that right everyone is giving me great signal auto audio reports.
bob w1ltx

22733. Re: [TS-520_820_530_830] ts 520 rf power

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-06 17:26:30 UTC
From: Don Thomas
Topic: 22732 Message: 22733

Sounds like the meter needs calibrating. Do you have a external power meter to see what it is actually transmitting?

Don T.

--- On Tue, 10/6/09, w1ltx <w1ltx1@...> wrote:

From: w1ltx <w1ltx1@...>
Subject: [TS-520_820_530_830] ts 520 rf power
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, October 6, 2009, 12:10 PM

hello
i have the ts 520 kenwood when i go to cw mode and tune the rf output the meter goes all the way over is that right everyone is giving me great signal auto audio reports.
bob w1ltx

[Non-text portions of this message have been removed]

22734. Re: [TS-520_820_530_830] ts 520 rf power

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-06 17:27:54 UTC
From: Ken Winterling
Topic: 22732 Message: 22734

Bob,

What is the position of the meter switch when you are doing what you
describe? If it is in the RF position then you should adjust RF VOLT
control on the left side of the rig to reduce the relative output reading.

Ken, WA2LBI

On Tue, Oct 6, 2009 at 13:10, w1ltx <w1ltx1@...> wrote:

> hello
> i have the ts 520 kenwood when i go to cw mode and tune the rf output the
> meter goes all the way over is that right everyone is giving me great signal
> auto audio reports.
> bob w1ltx
>
>

[Non-text portions of this message have been removed]

22735. Re: RF output meter not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-06 17:33:58 UTC
From: w5rkl
Topic: 22730 Message: 22735

Hello Scott,

Check D5, 1N60, RF meter rectifier diode, it's most likely blown (open).

To see the path the RF travels which includes through D5, download the TS-830S high resolution schematic. See the link below.

http://www.n6wk.com/kenwood/TS-830S-excellent%20schematic.pdf

D5 is near the "ANT" connector on the upper right corner of the schematic. You will have to trace the path from D5 to the meter switch S13 then on to the AF UNIT plug 7 pin 2, through AF UNIT's relay RL1 terminals, and back out plug 7 pin 6 to the meter.

By the way, RL1 on the AF UNIT is shown in "receive" not "transmit".

Check the meter settings at the bottom right of the schematic. This will help you trace the switch wiring.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "scott_n2ddd" <scott_n2ddd@...> wrote:
>
> Hello Everyone,
> I have a TS-830S. Output power is 100W+ but the RF meter on the rig does not move. The meter works in every other position. I cleaned the METER switch and the RF VOLT pot on the back, but it did not help. Any thoughts/ideas?
> Thanks for any input!
> 73 Scott N2DDD
>

22736. Re: ts 520 rf power

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-06 17:43:09 UTC
From: w5rkl
Topic: 22732 Message: 22736

I agree with Ken, most likely the meter pot is improperly set.

Another thing to remember. The "RF" meter position is not a watt meter. The RF meter position simply displays a relative level of RF output. The circuit consist of a diode, a resistor, a pot, and a bypass capacitor. The fixed resistor lowers the RF signal that is applied to the diode. The diode rectifies the RF into a DC voltage that is fed to the meter and the pot, both which are in parallel with one another, displaying a relative level of RF that is being applied to the antenna, nothing more.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Ken Winterling <wa2lbi@...> wrote:
>
> Bob,
>
> What is the position of the meter switch when you are doing what you
> describe? If it is in the RF position then you should adjust RF VOLT
> control on the left side of the rig to reduce the relative output reading.
>
> Ken, WA2LBI
>
>
> On Tue, Oct 6, 2009 at 13:10, w1ltx <w1ltx1@...> wrote:
>
> > hello
> > i have the ts 520 kenwood when i go to cw mode and tune the rf output the
> > meter goes all the way over is that right everyone is giving me great signal
> > auto audio reports.
> > bob w1ltx
> >
> >
>
>
> [Non-text portions of this message have been removed]
>

22737. Re: for salets520s hf transciver

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-06 17:55:39 UTC
From: David
Topic: 22723 Message: 22737

sseems like we have a missing space bar on this post.
dave kg4uxr

--- In TS-520_820_530_830@yahoogroups.com, "mark" <marksbuffalobills@...> wrote:
>
> ts520shftransciveraskin210.00 plusshipiing
>

22738. Re: [TS-520_820_530_830] Re: ts 520 rf power

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-06 18:06:33 UTC
From: robert sessums
Topic: 22732 Message: 22738

thanks guys
yes the meter switch in the rf setting ok i'll try and have
meter calibrated.

w1ltx

On Tue, Oct 6, 2009 at 10:43 AM, w5rkl <w5rkl@...> wrote:

>
>
> I agree with Ken, most likely the meter pot is improperly set.
>
> Another thing to remember. The "RF" meter position is not a watt meter. The
> RF meter position simply displays a relative level of RF output. The circuit
> consist of a diode, a resistor, a pot, and a bypass capacitor. The fixed
> resistor lowers the RF signal that is applied to the diode. The diode
> rectifies the RF into a DC voltage that is fed to the meter and the pot,
> both which are in parallel with one another, displaying a relative level of
> RF that is being applied to the antenna, nothing more.
>
> 73's
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> Ken Winterling <wa2lbi@...> wrote:
> >
> > Bob,
> >
> > What is the position of the meter switch when you are doing what you
> > describe? If it is in the RF position then you should adjust RF VOLT
> > control on the left side of the rig to reduce the relative output
> reading.
> >
> > Ken, WA2LBI
> >
> >
> > On Tue, Oct 6, 2009 at 13:10, w1ltx <w1ltx1@...> wrote:
> >
> > > hello
> > > i have the ts 520 kenwood when i go to cw mode and tune the rf output
> the
> > > meter goes all the way over is that right everyone is giving me great
> signal
> > > auto audio reports.
> > > bob w1ltx

> > >
> > >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>

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22739. Re: [TS-520_820_530_830] ts 520 rf power

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-06 19:29:10 UTC
From: robert sessums
Topic: 22732 Message: 22739

hi ken
i'll try and make the ajustments will i cause damage to the radio
before i do make the ajustmentsto operate.

bob w1ltx

On Tue, Oct 6, 2009 at 10:27 AM, Ken Winterling <wa2lbi@...>wrote:

>
>
> Bob,
>
> What is the position of the meter switch when you are doing what you
> describe? If it is in the RF position then you should adjust RF VOLT
> control on the left side of the rig to reduce the relative output reading.
>
> Ken, WA2LBI
>
>
> On Tue, Oct 6, 2009 at 13:10, w1ltx <w1ltx1@... <w1ltx1%40gmail.com>>
> wrote:
>
> > hello
> > i have the ts 520 kenwood when i go to cw mode and tune the rf output the
> > meter goes all the way over is that right everyone is giving me great
> signal
> > auto audio reports.
> > bob w1ltx
> > >
> > >
>
> [Non-text portions of this message have been removed]
>
>
>

[Non-text portions of this message have been removed]

22740. Re: [TS-520_820_530_830] ts 520 rf power

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-06 19:59:15 UTC
From: Ken Winterling
Topic: 22732 Message: 22740

Bob,

You still haven't told us the position of the meter switch. The group needs that information in order to help you otherwise we are guessing. If the meter switch is in the RF position you won't hurt the transmitter but you are needlessly stressing the meter by causing it to slam against the right side pin. This may lead to meter failure.

Now would be a good time for you to review the TS-520 tune up procedure. Here is a good link for the procedure: http://www.k4eaa.com/tune-up.htm. Ken, K4EAA, has a lot of other good information at his site, http://www.k4eaa.com/

Ken, WA2LBI

On Tue, Oct 6, 2009 at 15:29, robert sessums <w1ltx1@...> wrote:

> hi ken
> i'll try and make the ajustments will i cause damage to the radio
> before i do make the ajustmentsto operate.
>
> bob w1ltx
>
> On Tue, Oct 6, 2009 at 10:27 AM, Ken Winterling <wa2lbi@...
> >wrote:
>
> >
> >
> > Bob,
> >
> > What is the position of the meter switch when you are doing what you
> > describe? If it is in the RF position then you should adjust RF VOLT
> > control on the left side of the rig to reduce the relative output
> reading.
> > >
> > Ken, WA2LBI
> > >
> > >
> > On Tue, Oct 6, 2009 at 13:10, w1ltx <w1ltx1@... <w1ltx1%
> 40gmail.com>>
> > wrote:
> > >
> > > hello
> > > i have the ts 520 kenwood when i go to cw mode and tune the rf output
> the
> > > meter goes all the way over is that right everyone is giving me great

> > signal
> > > auto audio reports.
> > > bob w1ltx
> > >
>

[Non-text portions of this message have been removed]

22741. Re: [TS-520_820_530_830] ts 520 rf power

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-06 20:19:38 UTC
From: robert sessums
Topic: 22732 Message: 22741

ok sorry ken i thought explained it ok the mode is cw and the meter switch
is set to rf to ajust the rf output everything else is ok the bias is set at
60 ma and plate dips ok.

bob w1ltx

On Tue, Oct 6, 2009 at 12:59 PM, Ken Winterling <wa2lbi@...>wrote:

>
>
> Bob,
>
> You still haven't told us the position of the meter switch. The group needs
> that information in order to help you otherwise we are guessing. If the
> meter switch is in the RF position you won't hurt the transmitter but you
> are needlessly stressing the meter by causing it to slam against the right
> side pin. This may lead to meter failure.
>
> Now would be a good time for you to review the TS-520 tune up procedure.
> Here is a good link for the procedure: http://www.k4eaa.com/tune-up.htm.
> Ken, K4EAA, has a lot of other good information at his site,
> http://www.k4eaa.com/
>
> Ken, WA2LBI
>
> On Tue, Oct 6, 2009 at 15:29, robert sessums <w1ltx1@...<w1ltx1%40gmail.com>>
> wrote:
>
> > hi ken
> > i'll try and make the ajustments will i cause damage to the radio
> > before i do make the ajustmentsto operate.
> >
> > bob w1ltx
> >
> > On Tue, Oct 6, 2009 at 10:27 AM, Ken Winterling <wa2lbi@...<wa2lbi%40frontiernet.net>
> > >wrote:
> >
> > >
> > >
> > > Bob,
> > >
> > > What is the position of the meter switch when you are doing what you
> > > describe? If it is in the RF position then you should adjust RF VOLT
> > > control on the left side of the rig to reduce the relative output
> > reading.
> > >

> > > Ken, WA2LBI
> > >
> > >
> > > On Tue, Oct 6, 2009 at 13:10, w1ltx <w1ltx1@...<w1ltx1%40gmail.com><w1ltx1%
> > 40gmail.com>>
> > > wrote:
> > >
> > > > hello
> > > > i have the ts 520 kenwood when i go to cw mode and tune the rf output
> > the
> > > > meter goes all the way over is that right everyone is giving me great
> > > signal
> > > > auto audio reports.
> > > > bob w1ltx
> > > >
> > >
>
> [Non-text portions of this message have been removed]
>
>
>

[Non-text portions of this message have been removed]

22742. Re: ts 520 rf power

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-06 21:36:12 UTC
From: w5rkl
Topic: 22732 Message: 22742

The MODE switch has nothing to do with the RF Meter switch position. Any RF present at the 520's antenna SO-239 will be displayed on the meter, when the meter switch is set to RF, regardless of the MODE switch position. The RF meter settings simply displays "relative" RF voltage output from the transmitter and should not be thought of as a watt meter.

The RF Voltage pot on the left side of the 520, controls the level of RF voltage displayed on the meter when the meter switch set to "RF".

If the meter switch is set to RF and the 520 is tuned for maximum output and the meter pegs full scale to the right, simply turn the RF Voltage pot down so the meter is no more than 2/3 of full scale.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, robert sessums <w1ltx1@...> wrote:
>
> ok sorry ken i thought explained it ok the mode is cw and the meter switch
> is set to rf to ajust the rf output everything else is ok the bias is set at
> 60 ma and plate dips ok.
>
> bob w1ltx
>
> On Tue, Oct 6, 2009 at 12:59 PM, Ken Winterling <wa2lbi@...>wrote:
>
> > >
> > >
> > > Bob,
> > >
> > > You still haven't told us the position of the meter switch. The group needs
> > > that information in order to help you otherwise we are guessing. If the
> > > meter switch is in the RF position you won't hurt the transmitter but you
> > > are needlessly stressing the meter by causing it to slam against the right
> > > side pin. This may lead to meter failure.
> > >
> > > Now would be a good time for you to review the TS-520 tune up procedure.
> > > Here is a good link for the procedure: http://www.k4eaa.com/tune-up.htm.
> > > Ken, K4EAA, has a lot of other good information at his site,
> > > http://www.k4eaa.com/
> > >
> > > Ken, WA2LBI
> > >
> > > On Tue, Oct 6, 2009 at 15:29, robert sessums <w1ltx1@...<w1ltx1%40gmail.com>>
> > > wrote:
> > >
> > > > hi ken

> > > i'll try and make the ajustments will i cause damage to the radio
> > > before i do make the ajustmentsto operate.
> > >
> > > bob w1ltx
> > >
> > > On Tue, Oct 6, 2009 at 10:27 AM, Ken Winterling <wa2lbi@...<wa2lbi%40frontiernet.net>
> > > >wrote:
> > >
> > > >
> > > >
> > > > Bob,
> > > >
> > > > What is the position of the meter switch when you are doing what you
> > > > describe? If it is in the RF position then you should adjust RF VOLT
> > > > control on the left side of the rig to reduce the relative output
> > > reading.
> > > >
> > > > Ken, WA2LBI
> > > >
> > > >
> > > > On Tue, Oct 6, 2009 at 13:10, w1ltx <w1ltx1@...<w1ltx1%40gmail.com><w1ltx1%
> > > 40gmail.com>>
> > > > wrote:
> > > >
> > > > > hello
> > > > > i have the ts 520 kenwood when i go to cw mode and tune the rf output
> > > the
> > > > > meter goes all the way over is that right everyone is giving me great
> > > > signal
> > > > > auto audio reports.
> > > > > bob w1ltx
> > > > >
> > > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> > >
> > >
> >
> >
> > [Non-text portions of this message have been removed]
> >

22743. Re: VFO-520 Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-06 21:50:10 UTC
From: n6wk_skcc3
Topic: 22651 Message: 22743

Hi Rick,
Did you ever get a cable?
I have enough connectors to make up 3 cables. These are very nice connectors with little screw on covers. Very nice Quality.
I will sell each cable for $25.00 plus shipping. If you are still interested, please let me know. I will make each cable 24" in length.

73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "VE3FMC" <ve3fmc@...> wrote:
>
> Hello Everyone
>
> I am in need of the cable that connects the VFO-520 to a TS-520. Does anyone have one they would sell?
>
> Or tell me where I might be able to purchase one?
>
> Thanks
> 73, Rick VE3FMC
>

22744. Re: VFO-520 Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-06 21:53:15 UTC
From: w5rkl
Topic: 22651 Message: 22744

Gordon,

Is the cable you use flexible or is it stiff? My VFO-820 cable is quite stiff which makes it difficult to keep it plugged into the 820. Any movement of the 820 or VFO-820 usually results in the cable being pulling out of the 820 by the stiff cable.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "n6wk_skcc3" <n6wk@...> wrote:
>
> Hi Rick,
> Did you ever get a cable?
> I have enough connectors to make up 3 cables. These are very nice connectors with little screw on covers. Very nice Quality.
> I will sell each cable for $25.00 plus shipping. If you are still interested, please let me know. I will make each cable 24" in length.
>
> 73,
> Gordon
> N6WK
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "VE3FMC" <ve3fmc@> wrote:
> >
> > Hello Everyone
> >
> > I am in need of the cable that connects the VFO-520 to a TS-520. Does anyone have one they would sell?
> >
> > Or tell me where I might be able to purchase one?
> >
> > Thanks
> > 73, Rick VE3FMC
> >
>

22745. RE: [TS-520_820_530_830] Re: VFO-520 Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-06 22:22:34 UTC
From: Greg Anders
Topic: 22651 Message: 22745

I think Kenwood used the stiffest cable they could find and the flimsy'est connectors on the back of the radios and VFO's. My 520SE and 520 VFO will become unplugged and "frequency dead" if I breathe on them. I love my Kenwoods but they flunk on their cable/connector design in this regard.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
Sent: Tuesday, October 06, 2009 2:53 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: VFO-520 Cable

Gordon,

Is the cable you use flexible or is it stiff? My VFO-820 cable is quite stiff which makes it difficult to keep it plugged into the 820. Any movement of the 820 or VFO-820 usually results in the cable being pulling out of the 820 by the stiff cable.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "n6wk_skcc3" <n6wk@...> wrote:
>
> Hi Rick,
> Did you ever get a cable?
> I have enough connectors to make up 3 cables. These are very nice connectors with little screw on covers. Very nice Quality.
> I will sell each cable for $25.00 plus shipping. If you are still interested, please let me know. I will make each cable 24" in length.
>
> 73,
> Gordon
> N6WK
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "VE3FMC" <ve3fmc@> wrote:
> >
> > Hello Everyone
> >
> > I am in need of the cable that connects the VFO-520 to a TS-520. Does anyone have one they would sell?

> >
> > Or tell me where I might be able to purchase one?
> >
> > Thanks
> > 73, Rick VE3FMC
> >
>

[Non-text portions of this message have been removed]

22746. Re: [TS-520_820_530_830] Re: VFO-520 Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-06 22:53:09 UTC
From: n6wk@n6wk.com
Topic: 22651 Message: 22746

Hi Mike,
It is actually quite flexible for a 9 wire cable with a shield.
I don't think moving the gear would make it come unplugged.

73,
Gordon
N6WK

w5rkl wrote:
>
>
> Gordon,
>
> Is the cable you use flexible or is it stiff? My VFO-820 cable is
> quite stiff which makes it difficult to keep it plugged into the 820.
> Any movement of the 820 or VFO-820 usually results in the cable being
> pulling out of the 820 by the stiff cable.
>
> 73's
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "n6wk_skcc3" <n6wk@...>
> wrote:
> >
> > Hi Rick,
> > Did you ever get a cable?
> > I have enough connectors to make up 3 cables. These are very nice
> connectors with little screw on covers. Very nice Quality.
> > I will sell each cable for $25.00 plus shipping. If you are still
> interested, please let me know. I will make each cable 24" in length.
> >
> > 73,
> > Gordon
> > N6WK
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "VE3FMC" <ve3fmc@> wrote:
> > >
> > > Hello Everyone
> > >
> > > I am in need of the cable that connects the VFO-520 to a TS-520.
> Does anyone have one they would sell?

> > >
> > > Or tell me where I might be able to purchase one?
> > >
> > > Thanks
> > > 73, Rick VE3FMC
> > >
> >
>

22747. Re: VFO-520 Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-06 23:08:31 UTC
From: n6wk_skcc3
Topic: 22651 Message: 22747

Mike,
Here is a picture of a completed 30" cable.
http://www.n6wk.com/kenwood/520-820%20VFO%20cable.jpg

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, n6wk@... wrote:
>
> Hi Mike,
> It is actually quite flexible for a 9 wire cable with a shield.
> I don't think moving the gear would make it come unplugged.
>
> 73,
> Gordon
> N6WK
>
>
> w5rkl wrote:
> >
> >
> > Gordon,
> >
> > Is the cable you use flexible or is it stiff? My VFO-820 cable is
> > quite stiff which makes it difficult to keep it plugged into the 820.
> > Any movement of the 820 or VFO-820 usually results in the cable being
> > pulling out of the 820 by the stiff cable.
> >
> > 73's
> > Mike W5RKL
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "n6wk_skcc3" <n6wk@>
> > wrote:
> > >
> > > Hi Rick,
> > > Did you ever get a cable?
> > > I have enough connectors to make up 3 cables. These are very nice
> > connectors with little screw on covers. Very nice Quality.
> > > I will sell each cable for $25.00 plus shipping. If you are still
> > interested, please let me know. I will make each cable 24" in length.
> > >
> > > 73,
> > > Gordon
> > > N6WK

> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "VE3FMC" <ve3fmc@> wrote:
> > > >
> > > > Hello Everyone
> > > >
> > > > I am in need of the cable that connects the VFO-520 to a TS-520.
> > Does anyone have one they would sell?
> > > >
> > > > Or tell me where I might be able to purchase one?
> > > >
> > > > Thanks
> > > > 73, Rick VE3FMC
> > > >
> > >
> > >
>

22748. RE: [TS-520_820_530_830] Re: VFO-520 Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-06 23:13:25 UTC
From: Greg Anders
Topic: 22651 Message: 22748

Those cables get stiffer with age, the connectors are not adequate to take any kind of torque from a cable that has formed itself into a shape already. The connectors can't hold if you move the transceiver or VFO more than ¼ inch in my estimation. I found this to be true even for the 803S and its VFO although Kenwood did use a slightly better connector/socket. I just live with it and don't move things without re-checking connections.

FYI

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n6wk_skcc3
Sent: Tuesday, October 06, 2009 4:09 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: VFO-520 Cable

Mike,
Here is a picture of a completed 30" cable.
http://www.n6wk.com/kenwood/520-820%20VFO%20cable.jpg

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, n6wk@... wrote:
>
> Hi Mike,
> It is actually quite flexible for a 9 wire cable with a shield.
> I don't think moving the gear would make it come unplugged.
>
> 73,
> Gordon
> N6WK
>
>
> w5rkl wrote:
> >
> >
> > Gordon,
> >
> > Is the cable you use flexible or is it stiff? My VFO-820 cable is
> > quite stiff which makes it difficult to keep it plugged into the 820.
> > Any movement of the 820 or VFO-820 usually results in the cable being
> > pulling out of the 820 by the stiff cable.

> >
> > 73's
> > Mike W5RKL
> >
> > --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "n6wk_skcc3" <n6wk@>
> > wrote:
> > >
> > > Hi Rick,
> > > Did you ever get a cable?
> > > I have enough connectors to make up 3 cables. These are very nice
> > connectors with little screw on covers. Very nice Quality.
> > > I will sell each cable for $25.00 plus shipping. If you are still
> > interested, please let me know. I will make each cable 24" in length.
> > >
> > > 73,
> > > Gordon
> > > N6WK
> > >
> > >
> > >
> > > --- In
TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "VE3FMC" <ve3fmc@> wrote:
> > > >
> > > > Hello Everyone
> > > >
> > > > I am in need of the cable that connects the VFO-520 to a TS-520.
> > Does anyone have one they would sell?
> > > >
> > > > Or tell me where I might be able to purchase one?
> > > >
> > > > Thanks
> > > > 73, Rick VE3FMC
> > > >
> > >
> >
>

[Non-text portions of this message have been removed]

22749. Re: [TS-520_820_530_830] Re: VFO-520 Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-06 23:24:08 UTC
From: n6wk@n6wk.com
Topic: 22651 Message: 22749

Hi Greg,
I have NEVER had any problem like that with my External VFO on my 830,
but then again, I made up my own cable and made it longer.
The stock Kenwood one was too short and too stiff for me.

73,
Gordon
N6WK

Greg Anders wrote:
>
>
> Those cables get stiffer with age, the connectors are not adequate to
> take any kind of torque from a cable that has formed itself into a
> shape already. The connectors can't hold if you move the transceiver
> or VFO more than ? inch in my estimation. I found this to be true even
> for the 803S and its VFO although Kenwood did use a slightly better
> connector/socket. I just live with it and don't move things without
> re-checking connections.
>
> FYI
>
> Greg
> KG6YV
>
> From: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> [mailto:TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of n6wk_skcc3
> Sent: Tuesday, October 06, 2009 4:09 PM
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Subject: [TS-520_820_530_830] Re: VFO-520 Cable
>
> Mike,
> Here is a picture of a completed 30" cable.
> http://www.n6wk.com/kenwood/520-820%20VFO%20cable.jpg
> <http://www.n6wk.com/kenwood/520-820%20VFO%20cable.jpg>
>
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.co
m>,

> n6wk@... wrote:
> >
> > Hi Mike,
> > It is actually quite flexible for a 9 wire cable with a shield.
> > I don't think moving the gear would make it come unplugged.
> >
> > 73,
> > Gordon
> > N6WK
> >
> >
> > w5rkl wrote:
> > >
> > >
> > > Gordon,
> > >
> > > Is the cable you use flexible or is it stiff? My VFO-820 cable is
> > > quite stiff which makes it difficult to keep it plugged into the 820.
> > > Any movement of the 820 or VFO-820 usually results in the cable being
> > > pulling out of the 820 by the stiff cable.
> > >
> > > 73's
> > > Mike W5RKL
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com
>
<mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com>
> > > <mailto:TS-520_820_530_830%40yahoogroups.com>, "n6wk_skcc3" <n6wk@>
> > > wrote:
> > > >
> > > > Hi Rick,
> > > > Did you ever get a cable?
> > > > I have enough connectors to make up 3 cables. These are very nice
> > > connectors with little screw on covers. Very nice Quality.
> > > > I will sell each cable for $25.00 plus shipping. If you are still
> > > interested, please let me know. I will make each cable 24" in length.
> > > >
> > > > 73,
> > > > Gordon
> > > > N6WK
> > > >
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com
>
<mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com>
> > > <mailto:TS-520_820_530_830%40yahoogroups.com>, "VE3FMC" <ve3fmc@>
> wrote:
> > > > >
> > > > > Hello Everyone

> > > > >
> > > > > I am in need of the cable that connects the VFO-520 to a TS-520.
> > > Does anyone have one they would sell?
> > > > >
> > > > > Or tell me where I might be able to purchase one?
> > > > > >
> > > > > > Thanks
> > > > > > 73, Rick VE3FMC
> > > > > >
> > > > >
> > > >
> > >
> >
> [
>

22750. Re: [TS-520_820_530_830] Re: VFO-520 Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-06 23:31:07 UTC
From: wb6orz@pacbell.net
Topic: 22651 Message: 22750

Hi, Gordon. I'd like to buy a cable. Thanks es (((73))) Les.
Sent from my Verizon Wireless BlackBerry

-----Original Message-----
From: n6wk@...
Date: Tue, 06 Oct 2009 15:53:09
To: <TS-520_820_530_830@yahoogroups.com>
Subject: Re: [TS-520_820_530_830] Re: VFO-520 Cable

Hi Mike,
It is actually quite flexible for a 9 wire cable with a shield.
I don't think moving the gear would make it come unplugged.

73,
Gordon
N6WK

w5rkl wrote:
>
>
> Gordon,
>
> Is the cable you use flexible or is it stiff? My VFO-820 cable is
> quite stiff which makes it difficult to keep it plugged into the 820.
> Any movement of the 820 or VFO-820 usually results in the cable being
> pulling out of the 820 by the stiff cable.
>
> 73's
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "n6wk_skcc3" <n6wk@...>
> wrote:
> >
> > Hi Rick,
> > Did you ever get a cable?
> > I have enough connectors to make up 3 cables. These are very nice
> connectors with little screw on covers. Very nice Quality.
> > I will sell each cable for $25.00 plus shipping. If you are still
> interested, please let me know. I will make each cable 24" in length.
> >
> > 73,
> > Gordon
> > N6WK
> >
> >

> >
> > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "VE3FMC" <ve3fmc@> wrote:
> > >
> > > Hello Everyone
> > >
> > > I am in need of the cable that connects the VFO-520 to a TS-520.
> Does anyone have one they would sell?
> > >
> > > Or tell me where I might be able to purchase one?
> > >
> > > Thanks
> > > 73, Rick VE3FMC
> > >
> >
>

[Non-text portions of this message have been removed]

22751. RE: [TS-520_820_530_830] Re: VFO-520 Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-06 23:37:15 UTC
From: Greg Anders
Topic: 22651 Message: 22751

AhA!!!!

See you were smarter than the rest of us....

Cheers,

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n6wk@...
Sent: Tuesday, October 06, 2009 4:24 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: VFO-520 Cable

Hi Greg,
I have NEVER had any problem like that with my External VFO on my 830,
but then again, I made up my own cable and made it longer.
The stock Kenwood one was too short and too stiff for me.

73,
Gordon
N6WK

Greg Anders wrote:
>
>
> Those cables get stiffer with age, the connectors are not adequate to
> take any kind of torque from a cable that has formed itself into a
> shape already. The connectors can't hold if you move the transceiver
> or VFO more than ¼ inch in my estimation. I found this to be true even
> for the 803S and its VFO although Kenwood did use a slightly better
> connector/socket. I just live with it and don't move things without
> re-checking connections.
>
> FYI
>
> Greg
> KG6YV
>
> From: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> [mailto:TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of n6wk_skcc3
> Sent: Tuesday, October 06, 2009 4:09 PM
> To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com>

> Subject: [TS-520_820_530_830] Re: VFO-520 Cable
>
> Mike,
> Here is a picture of a completed 30" cable.
> http://www.n6wk.com/kenwood/520-820%20VFO%20cable.jpg
> <http://www.n6wk.com/kenwood/520-820%20VFO%20cable.jpg>
>
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.co
m>,
> n6wk@... wrote:
> >
> > Hi Mike,
> > It is actually quite flexible for a 9 wire cable with a shield.
> > I don't think moving the gear would make it come unplugged.
> >
> > 73,
> > Gordon
> > N6WK
> >
> >
> > w5rkl wrote:
> > >
> > >
> > > Gordon,
> > >
> > > Is the cable you use flexible or is it stiff? My VFO-820 cable is
> > > quite stiff which makes it difficult to keep it plugged into the 820.
> > > Any movement of the 820 or VFO-820 usually results in the cable being
> > > pulling out of the 820 by the stiff cable.
> > >
> > > 73's
> > > Mike W5RKL
> > >
> > > --- In
TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
>
<mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com>
> > > <mailto:TS-520_820_530_830%40yahoogroups.com>, "n6wk_skcc3" <n6wk@>
> > > wrote:
> > > >
> > > > Hi Rick,
> > > > Did you ever get a cable?
> > > > I have enough connectors to make up 3 cables. These are very nice
> > > connectors with little screw on covers. Very nice Quality.
> > > > I will sell each cable for $25.00 plus shipping. If you are still
> > > interested, please let me know. I will make each cable 24" in length.

> > > >
> > > > 73,
> > > > Gordon
> > > > N6WK
> > > >
> > > >
> > > >
> > > > --- In
TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
>
<mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com>
> > > <mailto:TS-520_820_530_830%40yahoogroups.com>, "VE3FMC" <ve3fmc@>
> wrote:
> > > > >
> > > > > Hello Everyone
> > > > >
> > > > > I am in need of the cable that connects the VFO-520 to a TS-520.
> > > Does anyone have one they would sell?
> > > > >
> > > > > Or tell me where I might be able to purchase one?
> > > > >
> > > > > Thanks
> > > > > 73, Rick VE3FMC
> > > > >
> > > >
> > >
> > >
>
> [
>

[Non-text portions of this message have been removed]

22752. Re: [TS-520_820_530_830] Re: VFO-520 Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-06 23:49:45 UTC
From: wb6orz@pacbell.net
Topic: 22651 Message: 22752

Gordon, that would be for an 830 please. 73, Les
Sent from my Verizon Wireless BlackBerry

-----Original Message-----
From: wb6orz@...
Date: Tue, 6 Oct 2009 23:31:07
To: <TS-520_820_530_830@yahoogroups.com>
Subject: Re: [TS-520_820_530_830] Re: VFO-520 Cable

Hi, Gordon. I'd like to buy a cable. Thanks es (((73))) Les.
Sent from my Verizon Wireless BlackBerry

-----Original Message-----
From: n6wk@...
Date: Tue, 06 Oct 2009 15:53:09
To: <TS-520_820_530_830@yahoogroups.com>
Subject: Re: [TS-520_820_530_830] Re: VFO-520 Cable

Hi Mike,
It is actually quite flexible for a 9 wire cable with a shield.
I don't think moving the gear would make it come unplugged.

73,
Gordon
N6WK

w5rkl wrote:
>
>
> Gordon,
>
> Is the cable you use flexible or is it stiff? My VFO-820 cable is
> quite stiff which makes it difficult to keep it plugged into the 820.
> Any movement of the 820 or VFO-820 usually results in the cable being
> pulling out of the 820 by the stiff cable.
>
> 73's
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "n6wk_skcc3" <n6wk@...>
> wrote:
> >
> > Hi Rick,
> > Did you ever get a cable?
> > I have enough connectors to make up 3 cables. These are very nice

> connectors with little screw on covers. Very nice Quality.
> > I will sell each cable for $25.00 plus shipping. If you are still
> interested, please let me know. I will make each cable 24" in length.
> >
> > 73,
> > Gordon
> > N6WK
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "VE3FMC" <ve3fmc@> wrote:
> > >
> > > Hello Everyone
> > >
> > > I am in need of the cable that connects the VFO-520 to a TS-520.
> Does anyone have one they would sell?
> > >
> > > Or tell me where I might be able to purchase one?
> > >
> > > Thanks
> > > 73, Rick VE3FMC
> > >
> >
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

22753. Re: [TS-520_820_530_830] Re: VFO-520 Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-06 23:54:30 UTC
From: wb6orz@pacbell.net
Topic: 22651 Message: 22753

Gordon, sorry, that would be for an 830, please. Les
Sent from my Verizon Wireless BlackBerry

-----Original Message-----
From: n6wk@...
Date: Tue, 06 Oct 2009 16:24:08
To: <TS-520_820_530_830@yahoogroups.com>
Subject: Re: [TS-520_820_530_830] Re: VFO-520 Cable

Hi Greg,
I have NEVER had any problem like that with my External VFO on my 830,
but then again, I made up my own cable and made it longer.
The stock Kenwood one was too short and too stiff for me.

73,
Gordon
N6WK

Greg Anders wrote:
>
>
> Those cables get stiffer with age, the connectors are not adequate to
> take any kind of torque from a cable that has formed itself into a
> shape already. The connectors can't hold if you move the transceiver
> or VFO more than ? inch in my estimation. I found this to be true even
> for the 803S and its VFO although Kenwood did use a slightly better
> connector/socket. I just live with it and don't move things without
> re-checking connections.
>
> FYI
>
> Greg
> KG6YV
>
> From: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> [mailto:TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of n6wk_skcc3
> Sent: Tuesday, October 06, 2009 4:09 PM
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Subject: [TS-520_820_530_830] Re: VFO-520 Cable
>
> Mike,
> Here is a picture of a completed 30" cable.
> http://www.n6wk.com/kenwood/520-820%20VFO%20cable.jpg

> <http://www.n6wk.com/kenwood/520-820%20VFO%20cable.jpg>
>
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.co
m>,
> n6wk@... wrote:
> >
> > Hi Mike,
> > It is actually quite flexible for a 9 wire cable with a shield.
> > I don't think moving the gear would make it come unplugged.
> >
> > 73,
> > Gordon
> > N6WK
> >
> >
> > w5rkl wrote:
> > >
> > >
> > > Gordon,
> > >
> > > Is the cable you use flexible or is it stiff? My VFO-820 cable is
> > > quite stiff which makes it difficult to keep it plugged into the 820.
> > > Any movement of the 820 or VFO-820 usually results in the cable being
> > > pulling out of the 820 by the stiff cable.
> > >
> > > 73's
> > > Mike W5RKL
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com
>
<mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com>
> > > <mailto:TS-520_820_530_830%40yahoogroups.com>, "n6wk_skcc3" <n6wk@>
> > > wrote:
> > > >
> > > > Hi Rick,
> > > > Did you ever get a cable?
> > > > I have enough connectors to make up 3 cables. These are very nice
> > > connectors with little screw on covers. Very nice Quality.
> > > > I will sell each cable for $25.00 plus shipping. If you are still
> > > interested, please let me know. I will make each cable 24" in length.
> > > >
> > > > 73,
> > > > Gordon
> > > > N6WK
> > > >
> > > >

> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com
>
<mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com>
> > > <mailto:TS-520_820_530_830%40yahoogroups.com>, "VE3FMC" <ve3fmc@>
> wrote:
> > > > >
> > > > > Hello Everyone
> > > > > >
> > > > > I am in need of the cable that connects the VFO-520 to a TS-520.
> > > Does anyone have one they would sell?
> > > > > >
> > > > > Or tell me where I might be able to purchase one?
> > > > > >
> > > > > Thanks
> > > > > 73, Rick VE3FMC
> > > > > >
> > > > >
> > > >
> > >
>
> [
>

[Non-text portions of this message have been removed]

22754. Re: [TS-520_820_530_830] Re: VFO-520 Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-07 00:18:07 UTC
From: n6wk@n6wk.com
Topic: 22651 Message: 22754

Hi Les,
No problem, TS-830S VFO cable it will be.
How long do you want it to be?
I have to pick up more cable tomorrow.
I will mail it on Thursday to you.
Priority Mail shipping will be $4.80

73,
Gordon
N6WK

wb6orz@... wrote:
>
>
> Gordon, that would be for an 830 please. 73, Les
> Sent from my Verizon Wireless BlackBerry
>
> -----Original Message-----
> From: wb6orz@... <mailto:wb6orz%40pacbell.net>
> Date: Tue, 6 Oct 2009 23:31:07
> To: <TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>>
> Subject: Re: [TS-520_820_530_830] Re: VFO-520 Cable
>
> Hi, Gordon. I'd like to buy a cable. Thanks es (((73))) Les.
> Sent from my Verizon Wireless BlackBerry
>
> -----Original Message-----
> From: n6wk@... <mailto:n6wk%40n6wk.com>
> Date: Tue, 06 Oct 2009 15:53:09
> To: <TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>>
> Subject: Re: [TS-520_820_530_830] Re: VFO-520 Cable
>
> Hi Mike,
> It is actually quite flexible for a 9 wire cable with a shield.
> I don't think moving the gear would make it come unplugged.
>
> 73,
> Gordon
> N6WK
>
>
> w5rkl wrote:
> >

> >
> > Gordon,
> >
> > Is the cable you use flexible or is it stiff? My VFO-820 cable is
> > quite stiff which makes it difficult to keep it plugged into the 820.
> > Any movement of the 820 or VFO-820 usually results in the cable being
> > pulling out of the 820 by the stiff cable.
> >
> > 73's
> > Mike W5RKL
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "n6wk_skcc3" <n6wk@...>
> > wrote:
> > >
> > > Hi Rick,
> > > Did you ever get a cable?
> > > I have enough connectors to make up 3 cables. These are very nice
> > connectors with little screw on covers. Very nice Quality.
> > > I will sell each cable for $25.00 plus shipping. If you are still
> > interested, please let me know. I will make each cable 24" in length.
> > >
> > > 73,
> > > Gordon
> > > N6WK
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "VE3FMC" <ve3fmc@>
> wrote:
> > > > >
> > > > > Hello Everyone
> > > > >
> > > > > I am in need of the cable that connects the VFO-520 to a TS-520.
> > Does anyone have one they would sell?
> > > > >
> > > > > Or tell me where I might be able to purchase one?
> > > > >
> > > > > Thanks
> > > > > 73, Rick VE3FMC
> > > > >
> > > >
> > >
> >
>
>
>

22755. ts 520 tune rf output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-07 00:30:49 UTC
From: w1ltx
Topic: 22755 Message: 22755

hello
on my ts520 ok what i'm asking is with the mode in cw the meter switch in rf to tune the rf output the meter goes all the way over now is this causeing damage to operate my radio until i can make the ajustments needed thanks.
bob w1ltx

22756. Re: [TS-520_820_530_830] ts 520 tune rf output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-07 00:51:55 UTC
From: Charlie , W5COV
Topic: 22755 Message: 22756

IF you are SURE it is tuned to resonance , since your meter is pinned , then the only real problem would be a chance of damaging the meter .

The adjustment they are describing is a very simple one that only requires turning a control a fraction of a turn , and it is not super critical , if you happen to overshoot it one way or the other , it is not going to kill your radio .

I don't remember the inside of mine since I haven't had to open it but once since I owned it , but these guys are the best I have EVER seen on these particular radios and can easily "talk" a person through it in a matter of a few minutes , that has never done anything like it before in their life .

Charlie , W5COV

[Non-text portions of this message have been removed]

22757. Re: [TS-520_820_530_830] Re: VFO-520 Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-07 01:03:54 UTC
From: wb6orz@pacbell.net
Topic: 22651 Message: 22757

OK, Gordon. Well, lengthwise, what do you recommend? Longer than stock, certainly, so what has been working for you? I was thinking 30"? 3 feet? Or does that seem too cumbersome?
Sent from my Verizon Wireless BlackBerry

-----Original Message-----
From: n6wk@...
Date: Tue, 06 Oct 2009 17:18:07
To: <TS-520_820_530_830@yahoogroups.com>
Subject: Re: [TS-520_820_530_830] Re: VFO-520 Cable

Hi Les,
No problem, TS-830S VFO cable it will be.
How long do you want it to be?
I have to pick up more cable tomorrow.
I will mail it on Thursday to you.
Priority Mail shipping will be $4.80

73,
Gordon
N6WK

wb6orz@... wrote:
>
>
> Gordon, that would be for an 830 please. 73, Les
> Sent from my Verizon Wireless BlackBerry
>
> -----Original Message-----
> From: wb6orz@... <mailto:wb6orz%40pacbell.net>
> Date: Tue, 6 Oct 2009 23:31:07
> To: <TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>>
> Subject: Re: [TS-520_820_530_830] Re: VFO-520 Cable
>
> Hi, Gordon. I'd like to buy a cable. Thanks es (((73))) Les.
> Sent from my Verizon Wireless BlackBerry
>
> -----Original Message-----
> From: n6wk@... <mailto:n6wk%40n6wk.com>
> Date: Tue, 06 Oct 2009 15:53:09
> To: <TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>>
> Subject: Re: [TS-520_820_530_830] Re: VFO-520 Cable
>
> Hi Mike,
> It is actually quite flexible for a 9 wire cable with a shield.

> I don't think moving the gear would make it come unplugged.
>
> 73,
> Gordon
> N6WK
>
>
> w5rkl wrote:
> >
> >
> > Gordon,
> >
> > Is the cable you use flexible or is it stiff? My VFO-820 cable is
> > quite stiff which makes it difficult to keep it plugged into the 820.
> > Any movement of the 820 or VFO-820 usually results in the cable being
> > pulling out of the 820 by the stiff cable.
> >
> > 73's
> > Mike W5RKL
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "n6wk_skcc3" <n6wk@...>
> > wrote:
> > >
> > > Hi Rick,
> > > Did you ever get a cable?
> > > I have enough connectors to make up 3 cables. These are very nice
> > connectors with little screw on covers. Very nice Quality.
> > > I will sell each cable for $25.00 plus shipping. If you are still
> > interested, please let me know. I will make each cable 24" in length.
> > >
> > > 73,
> > > Gordon
> > > N6WK
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "VE3FMC" <ve3fmc@>
> wrote:
> > > > >
> > > > > Hello Everyone
> > > > >
> > > > > I am in need of the cable that connects the VFO-520 to a TS-520.
> > Does anyone have one they would sell?
> > > > >
> > > > > Or tell me where I might be able to purchase one?
> > > > >

> > > > Thanks
> > > > 73, Rick VE3FMC
> > > >
> > >
> >
>
>
>

[Non-text portions of this message have been removed]

22758. Re: [TS-520_820_530_830] ts 520 tune rf output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-07 01:20:03 UTC
From: robert sessums
Topic: 22755 Message: 22758

ok thanks charlie i'll see what i can do this is my first ts520 and i'm
still learning the radio work great i'm getting better reports than i ever
got with my ic706.

bob w1ltx

On Tue, Oct 6, 2009 at 5:51 PM, Charlie , W5COV <cvest@...> wrote:

>
>
> IF you are SURE it is tuned to resonance , since your meter is pinned ,
> then the only real problem would be a chance of damaging the meter .
>
> The adjustment they are describing is a very simple one that only requires
> turning a control a fraction of a turn , and it is not super critical , if
> you happen to overshoot it one way or the other , it is not going to kill
> your radio .
>
> I don't remember the inside of mine since I haven't had to open it but once
> since I owned it , but these guys are the best I have EVER seen on these
> particular radios and can easily "talk" a person through it in a matter of a
> few minutes , that has never done anything like it before in their life .
>
> Charlie , W5COV
>
> [Non-text portions of this message have been removed]
>
>
>

[Non-text portions of this message have been removed]

22759. Re: ts 520 tune rf output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-07 01:41:18 UTC
From: w5rkl
Topic: 22755 Message: 22759

Bob,

Have you adjusted the RF voltage pot that is accessible through the small panel on the left side of the 520? This is discussed in the 520's operator's manual. You do not have to open up the 520 by removing the top and bottom cabinets then search for a pot. It only takes a minute to do and your full scale RF meter setting will be fixed.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, robert sessums <w1ltx1@...> wrote:
>
> ok thanks charlie i'll see what i can do this is my first ts520 and i'm
> still learning the radio work great i'm getting better reports than i ever
> got with my ic706.
>
> bob w1ltx
>
> On Tue, Oct 6, 2009 at 5:51 PM, Charlie , W5COV <cvest@...> wrote:
>
> > >
> > >
> > > IF you are SURE it is tuned to resonance , since your meter is pinned ,
> > > then the only real problem would be a chance of damaging the meter .
> > >
> > > The adjustment they are describing is a very simple one that only requires
> > > turning a control a fraction of a turn , and it is not super critical , if
> > > you happen to overshoot it one way or the other , it is not going to kill
> > > your radio .
> > >
> > > I don't remember the inside of mine since I haven't had to open it but once
> > > since I owned it , but these guys are the best I have EVER seen on these
> > > particular radios and can easily "talk" a person through it in a matter of a
> > > few minutes , that has never done anything like it before in their life .
> > >
> > > Charlie , W5COV
> > >
> > > [Non-text portions of this message have been removed]
> > >
> > >
> > >
> >
> >
> > [Non-text portions of this message have been removed]
> >

22760. ts 830s- no display, no receive.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-07 01:53:59 UTC
From: ve3ptc57
Topic: 22760 Message: 22760

i picked up a mint condx ts 830s a couple weeks ago. i never should have sold my last one !!
anyhoo, sitting in the shack, listening to 40m, i hear a loud click from a relay, and the display goes blank, and no receive. moving the band switch does nothing, and i can see 2 parallel lines on the display, very dim though.
first thought was pll board, as this supplys the display etc. i changed out the board for a known good one, and no difference. now im thinking the power supply af.avr board.
anyone come across this problem ?? the radio is such a beauty, i just have to get it going again!
73 de bob.

22761. Re: ts 830s- no display, no receive.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-07 12:40:25 UTC
From: w5rkl
Topic: 22760 Message: 22761

--- In TS-520_820_530_830@yahoogroups.com, "ve3ptc57" <ve3ptc57@...> wrote:

<snip>

> i changed out the board for a known good one, and no difference. now
> im thinking the power supply af.avr board.

Bob, swapping boards without determining what the cause of the problem is can easily result in damaging the known good board.

I recommend checking the following voltages:

1. AF UNIT terminal labeled "14". Voltage should be approximately 14VDC

2. AF UNIT terminal labeled "12". Voltage should be approximately 12VDC

3. AF UNIT TP-6. Voltage should be quite close to 9.0VDC.

The Counter Unit, RF Unit, AF Unit, and IF Unit will not work which results in no digital display and no receive and transmit. The PLL Unit is powered by the 9VDC supply which, by the way, is produced from the 12VDC supply. The 12VDC supply is produced from the 14VDC supply. So, as you can see, if the 14VDC supply fails, the 9VDC and 12VDC supplies also fail.

73's
Mike W5RKL

22762. Re: RF output meter not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-07 12:43:24 UTC
From: scott_n2ddd
Topic: 22730 Message: 22762

Ken and Mike,
Thank you very much for your input.
I do see that diode in the schematic
and on a connection strip in the final cage.
I will get a new 1N60 and replace it this weekend.
Thanks again and I will report back with the results.
Scott N2DDD

22763. Re: ts 830s- no display, no receive.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-07 12:44:11 UTC
From: w5rkl
Topic: 22760 Message: 22763

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:

<snip>

> The Counter Unit, RF Unit, AF Unit, and IF Unit will not work which
> results in no digital display and no receive and transmit.

The above should read

"If the 12VDC is missing a the AF UNIT's terminal "12" then the Counter Unit, RF Unit, AF Unit, and IF Unit will not work which results in no digital display and no receive and no transmit".

73's
Mike W5RKL

22764. Re: [TS-520_820_530_830] TS-520 CW Filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-07 13:33:20 UTC
From: John Davidson
Topic: 22713 Message: 22764

Does the unwanted signal peak when you adjust the drive tuning ,If so the signal is real and on the air on 3870 !
It can not be eliminated at your end. It is the fault of the AMBC station's transmitter.
--- On Mon, 10/5/09, Jerry Keller <k3bz@...> wrote:

From: Jerry Keller <k3bz@...>
Subject: Re: [TS-520_820_530_830] TS-520 CW Filter
To: TS-520_820_530_830@yahoogroups.com
Date: Monday, October 5, 2009, 9:02 PM

Isn't the input trap circuit supposed to filter those out? I was thinking that the input trap circuit might be misaligned.
My other receivers don't have that problem.

73, Jerry K3BZ
----- Original Message -----

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22765. Re: [TS-520_820_530_830] TS-520 CW Filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-07 13:47:47 UTC
From: John Davidson
Topic: 22713 Message: 22765

Sorry but there is no "first harmonic" that = fundamental. Fundamental freq X 2 = 2nd harmonic, at least the way Iearned it at DeVry Tech school .....

--- On Tue, 10/6/09, Howard Weinstein <k3hw@...> wrote:

From: Howard Weinstein <k3hw@...>
Subject: Re: [TS-520_820_530_830] TS-520 CW Filter
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, October 6, 2009, 9:27 AM

2nd Harmonic - not 3rd.

transmit/fundamenta l - 1290 KHz
1st harmonic - 2580 KHz
2nd harmonic - 3870 KHz

--- On Mon, 10/5/09, John Davidson <k8jd@...> wrote:

From: John Davidson <k8jd@yahoo.com>
Subject: Re: [TS-520_820_ 530_830] TS-520 CW Filter
To: TS-520_820_530_ 830@yahoogroups. com
Date: Monday, October 5, 2009, 4:45 PM

This is the 3rd harmonic, not an "image" at all. Do the math.
Get in touch of the chief engr and see if he will put a trap in the output circuit ! Should be easy to do, simple parallel coil and cpacitor, and will knock them out of 75M !
--- On Mon, 10/5/09, Dave Kalter <kb8ocp@yahoo. com> wrote:

From: Dave Kalter <kb8ocp@yahoo. com>
Subject: Re: [TS-520_820_ 530_830] TS-520 CW Filter
To: TS-520_820_530_ 830@yahoogroups. com
Date: Monday, October 5, 2009, 2:56 PM

Yep, I have a pair of 520's not the "s" . Both have an image of WHIO on 1290 (less than 2 miles from me) on 3870-3872. dang, i have to go to my brothers house to listen to the "Marconi net" hi hi. who cares....the rest of the band plays great.
73
Dave KB8OCP

--- On Mon, 10/5/09, John Davidson <k8jd@...> wrote:

From: John Davidson <k8jd@yahoo.com>
Subject: Re: [TS-520_820_ 530_830] TS-520 CW Filter
To: TS-520_820_530_ 830@yahoogroups. com
Date: Monday, October 5, 2009, 6:42 PM

I have had my TS520 since new, never noticed any "ant trap" kind of circuit in it.
I HAVE heard third harmonic of AM 1270 station that was 5 kW, 4 miles from me, on 80M.Third

harmonics of AM transmitters on 1160-1300 fall on 80M band.\
I see you are 19 miles from KYW 1060, who runs 50KW ! also within 13-19 miles of stations on 860, 950,990 kHz, all over 10 kW ;who could be mixing signals in some metal junction near you.
Good luck with the 520, mine has been a workhorse and really trouble free. The worse thing for the hybrids is letting them sit idle.
73.....JD

--- On Mon, 10/5/09, Jerry Keller <k3bz@...> wrote:

I just bought a TS-520 at a hamfest.... my first "older rig", , the worst problem I see so far is what seem to be broadcast station "images" in the 80M band. My friend Chuck (who is patiently trying to teach me troubleshooting and repair methods) thinks the problem may be in the ant trap circuit. 73, Jerry K3BZ

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22766. Re: RF output meter not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-07 14:26:59 UTC
From: w5rkl
Topic: 22730 Message: 22766

Scott,

The new diode's banded lead (Cathode) connects to C11 and the other lead connects to the junction of R23 and C30. Just make sure you connect the new diode this way.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "scott_n2ddd" <scott_n2ddd@...> wrote:
>
>
>
>
>
> Ken and Mike,
> Thank you very much for your input.
> I do see that diode in the schematic
> and on a connection strip in the final cage.
> I will get a new 1N60 and replace it this weekend.
> Thanks again and I will report back with the results.
> Scott N2DDD
>

22767. Re: [TS-520_820_530_830] Re: ts 520 tune rf output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-07 15:39:25 UTC
From: robert sessums
Topic: 22755 Message: 22767

ok thanks mike i'll check the manual on how this is done this is my first ts520 and i'm still learning so far i love the rig i'm making contacts i never could with my ic 706.

bob w1ltx

On Tue, Oct 6, 2009 at 6:41 PM, w5rkl <w5rkl@...> wrote:

>
>
> Bob,
>
> Have you adjusted the RF voltage pot that is accessible through the small
> panel on the left side of the 520? This is discussed in the 520's operator's
> manual. You do not have to open up the 520 by removing the top and bottom
> cabinets then search for a pot. It only takes a minute to do and your full
> scale RF meter setting will be fixed.
>
> 73's
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> robert sessums <w1ltx1@...> wrote:
> >
> > ok thanks charlie i'll see what i can do this is my first ts520 and i'm
> > still learning the radio work great i'm getting better reports than i
> ever
> > got with my ic706.
> >
> > bob w1ltx
> >
> > On Tue, Oct 6, 2009 at 5:51 PM, Charlie , W5COV <cvest@...> wrote:
> >
> > >
> > >
> > > IF you are SURE it is tuned to resonance , since your meter is pinned ,
> > > then the only real problem would be a chance of damaging the meter .
> > >
> > > The adjustment they are describing is a very simple one that only
> requires
> > > turning a control a fraction of a turn , and it is not super critical ,
> if
> > > you happen to overshoot it one way or the other , it is not going to
> kill
> > > your radio .
> > >

> > > I don't remember the inside of mine since I haven't had to open it but
> once
> > > since I owned it , but these guys are the best I have EVER seen on
> these
> > > particular radios and can easily "talk" a person through it in a matter
> of a
> > > few minutes , that has never done anything like it before in their life
> .
> > >
> > > Charlie , W5COV
> > >
> > > [Non-text portions of this message have been removed]
> > >
> > >
> > >
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> >
> > [Non-text portions of this message have been removed]
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22768. DEAD KENWOOD TS-830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-07 15:43:30 UTC
From: campbellgc@bellsouth.net
Topic: 22768 Message: 22768

Folks....I am presenting here the obituary of my Kenwood TS-830.I have given up, in trying to get it back in operating condition even after a lot of help from Mike W5RKL.The basic problem is on the RF circuit board.I believe, that in the manufacture of the circuit board in Japan, when I purchased the rig back in 1982 was corrupt as over the years I have had to resolder so many "volcano" solder joints. I have also had to hard wire connections 5,6 7 9,DRIVE on VC . In addition,the connection numbered 2 on the RF board needs to be hard wired as the connection causes the display lights to be intermittent There is a short somewhere on the RF circuit board as there is no drive voltage,about 200v, getting from the 12by7 drive tube to the finals. I probably have caused a short with so many resoldered points on the under side of the RF circuit board....Perhaps an all new RF board may fix the problem...I just do not have any more patience in removing and replacing the RF board..Also resister R-11 on the rectifier board keeps blowing from the "phantom short"
The TS-830 has FT filters YF88H2.1 and YF455H2.1 installed A VFO-230 goes with the TS-830 along with a MC-50 Microphone.Also, all the operating and service manuals, all my notes on the repairs over the years.
Do I hear any offers,plus shipping?
George Campbell W1GCC Stuart,FL 772-463-4700

22769. Re: RF output meter not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-07 15:52:54 UTC
From: scott_n2ddd
Topic: 22730 Message: 22769

Update:
I just unhooked one end of the diode
and tested it with an ohm meter.
In one direction it showed ~1900 ohms,
in the other direction it showed infinity.
I compared those readings to some other
diodes I have here and they were about the same.
Do these readings indicate a functional diode?
Thoughts/ideas?
Thanks again for the help!
Scott N2DDD

22770. RE: [TS-520_820_530_830] Re: VFO-520 Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-07 14:31:13 UTC
From: Alan Miner
Topic: 22651 Message: 22770

Gordon,

I would like to buy a cable if the are still available.

Thanks

Al

WA1CZG

_____

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n6wk_skcc3
Sent: Tuesday, October 06, 2009 5:50 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: VFO-520 Cable

Hi Rick,
Did you ever get a cable?
I have enough connectors to make up 3 cables. These are very nice connectors
with little screw on covers. Very nice Quality.
I will sell each cable for $25.00 plus shipping. If you are still
interested, please let me know. I will make each cable 24" in length.

73,
Gordon
N6WK

--- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com, "VE3FMC" <ve3fmc@...> wrote:
>
> Hello Everyone
>
> I am in need of the cable that connects the VFO-520 to a TS-520. Does
anyone have one they would sell?
>
> Or tell me where I might be able to purchase one?
>
> Thanks
> 73, Rick VE3FMC
>

[Non-text portions of this message have been removed]

22772. TS-530SP display problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-07 16:24:23 UTC
From: kg4odx
Topic: 22772 Message: 22772

A friends TS=530SP developed a problem with frequency display last night. The vfo is on the correct frequency but the display read incorrectly. Could be a problem in counter board?

22773. Re: RF output meter not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-07 16:32:05 UTC
From: w5rkl
Topic: 22730 Message: 22773

Yes it does indicate a good diode. If the diode is good then there is most likely a break in the wiring or wire to the meter switch etc.

There isn't much that can go wrong with this circuit. As you can see in the schematic, the circuit is simple.

Check the simple circuit wiring including the meter switch.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "scott_n2ddd" <scott_n2ddd@...> wrote:
>
>
>
> Update:
> I just unhooked one end of the diode
> and tested it with an ohm meter.
> In one direction it showed ~1900 ohms,
> in the other direction it showed infinity.
> I compared those readings to some other
> diodes I have here and they were about the same.
> Do these readings indicate a functional diode?
> Thoughts/ideas?
> Thanks again for the help!
> Scott N2DDD
>

22774. Re: [TS-520_820_530_830] TS-530SP display problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-07 16:34:07 UTC
From: n6wk@n6wk.com
Topic: 22772 Message: 22774

It could be, But i would check all the connectors on the PLL board first.

73,
Gordon
N6WK

kg4odx wrote:
>
>
> A friends TS=530SP developed a problem with frequency display last
> night. The vfo is on the correct frequency but the display read
> incorrectly. Could be a problem in counter board?
>
> _

22775. Re: ts 520 tune rf output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-07 18:12:36 UTC
From: Thomas C
Topic: 22755 Message: 22775

On a TS520 series radio, there is a knob for adjusting the sensitivity of the RF meter. READ the MANUAL. It's all there.

--- In TS-520_820_530_830@yahoogroups.com, "w1ltx" <w1ltx1@...> wrote:
>
> hello
> on my ts520 ok what i'm asking is with the mode in cw the meter switch in rf to tune the rf output the meter goes all the way over now is this causeing damage to operate my radio until i can make the ajustments needed thanks.
> bob w1ltx
>

22776. Re: TS-530SP display problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-07 19:00:36 UTC
From: kg4odx
Topic: 22772 Message: 22776

--- In TS-520_820_530_830@yahoogroups.com, "kg4odx" <bill.kg4odx@...> wrote:
>
> A friends TS=530SP developed a problem with frequency display last night. The vfo is on the correct frequency but the display read incorrectly. Could be a problem in counter board?
>
Further on the VFO and Display problem:
At zero on the VFO on 160 it reads 1.5000 at 200 0n the vfo the display goes to 1.000 and stays there over the rest of the vfo range. Every band starts out abt right then goes to .000 depending on the band ie 14.000 28.000 etc

22777. Re: TS-530SP display problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-07 19:09:28 UTC
From: kg4odx
Topic: 22772 Message: 22777

At zero on the VFO on 160 it reads 1.5000 at 200 0n the vfo the display goes to 1.000 and stays there over the rest of the vfo range. Every band starts out abt right then goes to .000 depending on the band ie 14.000 28.000 etc

--- In TS-520_820_530_830@yahoogroups.com, n6wk@... wrote:
>
> It could be, But i would check all the connectors on the PLL board first.
>
> 73,
> Gordon
> N6WK
>
>
>
> kg4odx wrote:
> >
> >
> > A friends TS=530SP developed a problem with frequency display last
> > night. The vfo is on the correct frequency but the display read
> > incorrectly. Could be a problem in counter board?
> >
> > _
>

22778. Re: [TS-520_820_530_830] Re: ts 520 tune rf output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-07 20:34:32 UTC
From: John Davidson
Topic: 22755 Message: 22778

On the left side, behind a snap off cover are several controls for various VOX settings, PA bias and RF meter sensitivity.

--- On Wed, 10/7/09, Thomas C <carnage_59@...> wrote:

From: Thomas C <carnage_59@...>
Subject: [TS-520_820_530_830] Re: ts 520 tune rf output
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, October 7, 2009, 2:12 PM

On a TS520 series radio, there is a knob for adjusting the sensitivity of the RF meter. READ the MANUAL. It's all there.

--- In TS-520_820_530_ 830@yahoogroups. com, "w1ltx" <w1ltx1@...> wrote:
>
> hello
> on my ts520 ok what i'm asking is with the mode in cw the meter switch in rf to tune the rf output the meter goes all the way over now is this causeing damage to operate my radio until i can make the ajustments needed thanks.
> bob w1ltx
>

[Non-text portions of this message have been removed]

22779. Re: [TS-520_820_530_830] Re: ts 520 tune rf output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-07 20:47:41 UTC
From: robert sessums
Topic: 22755 Message: 22779

ok thanks guys sounds easy.
bob w1ltx

On Wed, Oct 7, 2009 at 1:34 PM, John Davidson <k8jd@...> wrote:

>
>
> On the left side, behind a snap off cover are several controls for various
> VOX settings, PA bias and RF meter sensitivity.
>
> --- On Wed, 10/7/09, Thomas C <carnage_59@...<carnage_59%40yahoo.com>>
> wrote:
>
> From: Thomas C <carnage_59@... <carnage_59%40yahoo.com>>
> Subject: [TS-520_820_530_830] Re: ts 520 tune rf output
> To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> Date: Wednesday, October 7, 2009, 2:12 PM
>
>
>
>
>
> On a TS520 series radio, there is a knob for adjusting the sensitivity of
> the RF meter. READ the MANUAL. It's all there.
>
> --- In TS-520_820_530_ 830@yahoogroups. com, "w1ltx" <w1ltx1@...> wrote:
> >
> > hello
> > on my ts520 ok what i'm asking is with the mode in cw the meter switch in
> rf to tune the rf output the meter goes all the way over now is this
> causeing damage to operate my radio until i can make the ajustments needed
> thanks.
> > bob w1ltx
> >
>
> [Non-text portions of this message have been removed]
>
>
>

[Non-text portions of this message have been removed]

22780. Re: [TS-520_820_530_830] DEAD KENWOOD TS-830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-07 21:05:03 UTC
From: mark helinski
Topic: 22768 Message: 22780

how abouta trade,i havea swan 1200 x amp,we could trade let me know mark.

--- On Wed, 10/7/09, n6wk@... <n6wk@...> wrote:

From: n6wk@n6wk.com <n6wk@...>
Subject: Re: [TS-520_820_530_830] DEAD KENWOOD TS-830
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, October 7, 2009, 11:27 AM

George,
I'll offer $200.00 plus shipping.
73,
Thanks,
Gordon

campbellgc@bellsout h.net wrote:
>
>
> Folks....I am presenting here the obituary of my Kenwood TS-830.I have
> given up, in trying to get it back in operating condition even after a
> lot of help from Mike W5RKL.The basic problem is on the RF circuit
> board.I believe, that in the manufacture of the circuit board in
> Japan, when I purchased the rig back in 1982 was corrupt as over the
> years I have had to resolder so many "volcano" solder joints. I have
> also had to hard wire connections 5,6 7 9,DRIVE on VC . In
> addition,the connection numbered 2 on the RF board needs to be hard
> wired as the connection causes the display lights to be intermittent
> There is a short somewhere on the RF circuit board as there is no
> drive voltage,about 200v, getting from the 12by7 drive tube to the
> finals. I probably have caused a short with so many resoldered points
> on the under side of the RF circuit board....Perhaps an all new RF
> board may fix the problem...I just do not have any more patience in
> removing and replacing the RF board..Also resister R-11 on the
> rectifier board keeps blowing from the "phantom short"
> The TS-830 has FT filters YF88H2.1 and YF455H2.1 installed A VFO-230
> goes with the TS-830 along with a MC-50 Microphone.Also, all the
> operating and service manuals, all my notes on the repairs over the years.
> Do I hear any offers,plus shipping?
> George Campbell W1GCC Stuart,FL 772-463-4700
>

[Non-text portions of this message have been removed]

22781. Re: TS-520 CW Filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-07 20:26:28 UTC
From: Ken
Topic: 22713 Message: 22781

Not so! It can be eliminated or greatly attenuated at the receiving end by a simple tuned circuit. Look in any ARRL handbook for BCI and it will discuss how this is reduced. It's not necessarily a problem with the BC transmitter. Close proximity is a cause for overload on the tx and harmonic frequencies and need not be a "problem" at the transmitter site though it can be (rarely).

Ken - KB7H

--- In TS-520_820_530_830@yahoogroups.com, John Davidson <k8jd@...> wrote:

> It can not be eliminated at your end. It is the fault of the AMBC station's transmitter.
> --- On Mon, 10/5/09, Jerry Keller <k3bz@...> wrote:

22782. Re: TS-820s blowing screen grid resistors.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-08 02:56:10 UTC
From: trippkj4bkd
Topic: 22690 Message: 22782

--- In TS-520_820_530_830@yahoogroups.com, "Robert DROGOUL" <f5ul@...> wrote:
>
> Hi Tripp
> Just beware, it's not 50/60 mv, but minus 50 or minus 60 VOLTS!!!
> At 60 mv the 6146 is blown sky hight!!!
> 73
> F5UL Bob
>
>
> [Non-text portions of this message have been removed]
>

Hello all

Thanks to all the quick responses.

I have gone thru the checking of the voltages on the Rectifier Board (X43-1090-02) and yes I realize thanks to you guys that I am blowing cathode resitors and not scren grid resistors.

Here are my findings.
AC14V pin-15.7
14V pin-15.7
100V pin-88.2
210V pin-248
300V pin-248
AC800V pin-Off the scale of Senior VoltOhlmyst meter that is not very accurate anyway. Need to recalibrate this old meter.
800V pin- Could get no reading.
Now just to be clear all measurements were read in AC. Should I have read for DC on pins not marked AC?.

Here is whare it gets interesting.
300V A/B pin-742 very quick measurement on 500v scale of DVM.
210V A/B pin-560
-C pin- 253V DC
I do not have access to an Elmer to help me with this so please bare with me. Should I remove Rectifier board and check components such as resistors, capacitors and diodes removed from board?. I tried reading resistors while they are still mounted on board but could not get a reading except for R9 100K Ohm that showed 640 Ohms. What really scares me is what is causeing Rectifier board to go bad if theese measurements are even slightly accurate.

Any advice please.
Tripp KJ4BKD

22783. Meter/Needle Light Bulb For Kenwood TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-08 03:16:39 UTC
From: Jonathan ORear
Topic: 22783 Message: 22783

Hello friends. My name is Jonathan B. O'Rear KD4MPW. I am in north centrla, Alabama. Thank you for approving me to the group. I am the proud, new owner of a Kenwood TS-830S. The only problem I see is that the meter/needle light is out and I would like to find a replacement bulb and some install hints would be helpful as well. Also, how do I know if my radio is the gold label model? The name stamp under the dial knob has the letters/numbers Kenwood TS-830S in gold but the large dial knob has a silver center. Any information is appreciated and God Bless. 73's

Jonathan B. O'Rear KD4MPW Meridianville,Alabama

JONATHAN B. O'REAR
AMATEUR/HAM RADIO COMMUNICATIONS/SHORTWAVE RADIO/TECHNICIAN CLASS/KD4MPW
EMERGENCY MEDICAL TECHNICIAN-BASIC LICENSED
NATIONAL WEATHER SERVICE-SEVERE WEATHER STORM SPOTTER/ADVANCED LEVEL
FIREFIGHTER

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22784. RE: [TS-520_820_530_830] Meter/Needle Light Bulb For Kenwood TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-08 04:32:00 UTC
From: Dick Merryman
Topic: 22783 Message: 22784

Jonathan-

Lamps are readily available on www.k4eaa.com . Open the top cover and you'll see that replacement is a piece of cake. Also, read K4EAA's site for an explanation of the TS-830S Gold.

-Dick-
N3XRU

_____

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jonathan ORear
Sent: Wednesday, October 07, 2009 8:17 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Meter/Needle Light Bulb For Kenwood TS-830S

Hello friends. My name is Jonathan B. O'Rear KD4MPW. I am in north centrla, Alabama. Thank you for approving me to the group. I am the proud, new owner of a Kenwood TS-830S. The only problem I see is that the meter/needle light is out and I would like to find a replacement bulb and some install hints would be helpful as well. Also, how do I know if my radio is the gold label model? The name stamp under the dial knob has the letters/numbers Kenwood TS-830S in gold but the large dial knob has a silver center. Any information is appreciated and God Bless. 73's

Jonathan B. O'Rear KD4MPW Meridianville,Alabama

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[Non-text portions of this message have been removed]

22785. Re: [TS-520_820_530_830] Re: TS-520 12 volt homebrew power cord.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-08 12:44:04 UTC
From: Lehmen Keyes
Topic: 22685 Message: 22785

Steve...got the cord yesterday/plug yesterday. Again I want to thank you.
Lee KD8INW

From: kd8aiv <kd8aiv@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sat, October 3, 2009 10:00:35 PM
Subject: [TS-520_820_530_830] Re: TS-520 12 volt homebrew power cord.

Lee,

You are the first in line for the cord. You can email me your shipping address and I will get it in the mail on Monday.

73,
Steve
KD8AIV

--- In TS-520_820_530_ 830@yahoogroups. com, Lehmen Keyes <leekeyes@.. .> wrote:
>
>
>
>
>
>
> ---------- --------- --------- --
> From: kd8aiv <kd8aiv@...>
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Saturday, October 3, 2009 3:17:42 PM
> Subject: [TS-520_820_ 530_830] TS-520 12 volt homebrew power cord.
> If no one has beat me to it, I'd be happy to make my 520 even happier.
> Lee KD8INW
> .
>
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> [Non-text portions of this message have been removed]
>

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22786. Re: [TS-520_820_530_830] DEAD KENWOOD TS-830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-08 13:05:39 UTC
From: George Campbell
Topic: 22768 Message: 22786

MARK...Thanks for ur offer for Awan&Amp trade for my Kenwood TS-830...However I Have allready made a deal with N6WK for outright sale...Thanks for responding to my e-mail...George W1GCC

From: mark helinski <marksbuffalobills@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 7, 2009 5:05:03 PM
Subject: Re: [TS-520_820_530_830] DEAD KENWOOD TS-830

how abouta trade,i havea swan 1200 x amp,we could trade let me know mark.

--- On Wed, 10/7/09, n6wk@n6wk.com <n6wk@...> wrote:

From: n6wk@... <n6wk@...>
Subject: Re: [TS-520_820_ 530_830] DEAD KENWOOD TS-830
To: TS-520_820_530_ 830@yahoogroups. com
Date: Wednesday, October 7, 2009, 11:27 AM

George,
I'll offer $200.00 plus shipping.
73,
Thanks,
Gordon

campbellgc@bellsout h.net wrote:
>
>
> Folks....I am presenting here the obituary of my Kenwood TS-830.I have
> given up, in trying to get it back in operating condition even after a
> lot of help from Mike W5RKL.The basic problem is on the RF circuit
> board.I believe, that in the manufacture of the circuit board in
> Japan, when I purchased the rig back in 1982 was corrupt as over the
> years I have had to resolder so many "volcano" solder joints. I have
> also had to hard wire connections 5,6 7 9,DRIVE on VC . In
> addition,the connection numbered 2 on the RF board needs to be hard
> wired as the connection causes the display lights to be intermittent
> There is a short somewhere on the RF circuit board as there is no
> drive voltage,about 200v, getting from the 12by7 drive tube to the
> finals. I probably have caused a short with so many resoldered points
> on the under side of the RF circuit board....Perhaps an all new RF
> board may fix the problem....I just do not have any more patience in
> removing and replacing the RF board..Also resister R-11 on the
> rectifier board keeps blowing from the "phantom short"
> The TS-830 has FT filters YF88H2.1 and YF455H2.1 installed A VFO-230
> goes with the TS-830 along with a MC-50 Microphone.Also, all the

> operating and service manuals, all my notes on the repairs over the years.
> Do I hear any offers,plus shipping?
> George Campbell W1GCC Stuart,FL 772-463-4700
>

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[Non-text portions of this message have been removed]

22787. Re: [TS-520_820_530_830] Re: TS-520 CW Filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-08 14:06:55 UTC
From: John Davidson
Topic: 22713 Message: 22787

The reason for my suspecting the BC transmitter is from real-world experience.
When I was working at WXYZ, I mentioned to the chief engr that I was receiving our third harmonic at S7 levels in several different receivers at my house, 4 mies away.
 So he found a big capacitor and coil and we installed at the output of the transmitter.
 We then tuned this trap for minimum 3rd harmonic with a spectrum anlyzer.
When I got home I measured the signal and it was just barely detectable.
True story!!!

--- On Wed, 10/7/09, Ken <atm_ken_hunter@...> wrote:

From: Ken <atm_ken_hunter@yahoo.com>
Subject: [TS-520_820_530_830] Re: TS-520 CW Filter
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, October 7, 2009, 4:26 PM

Not so! It can be eliminated or greatly attenuated at the receiving end by a simple tuned circuit. Look in any ARRL handbook for BCI and it will discuss how this is reduced. It's not necessarily a problem with the BC transmitter. Close proximity is a cause for overload on the tx and harmonic frequencies and need not be a "problem" at the transmitter site though it can be (rarely).

Ken - KB7H

--- In TS-520_820_530_ 830@yahoogroups. com, John Davidson <k8jd@...> wrote:

> It can not be eliminated at your end. It is the fault of the AMBC station' s transmitter.
> --- On Mon, 10/5/09, Jerry Keller <k3bz@...> wrote:

[Non-text portions of this message have been removed]

22788. What size tuning tools?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-08 13:18:51 UTC
From: douglaselick
Topic: 22788 Message: 22788

I need to place an order to Mouser or Digikey for a few parts and thought I'd grab a proper set of tuning tools to align/neutralize my TS-830. Off the top of my head I can't remember what size I need and I'm nowhere near my rig at the moment. Are all the adjustments "flat blade" or are some of the slugs hex drive. If so, what size?

Non-conductive, not anti-static of course!

Thanks,

Doug/KC8HQX

22789. Re: [TS-520_820_530_830] Meter/Needle Light Bulb For Kenwood TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-08 15:36:42 UTC
From: Jonathan B. O'Rear
Topic: 22783 Message: 22789

Thank you Dick. Can you tell me where to find the lamps on his web site and how to order 2 or 3 of them?
Jonmathan B. O'Rear Sent via BlackBerry by AT&T

-----Original Message-----
From: "Dick Merryman" <dicko@...>
Date: Wed, 7 Oct 2009 21:32:00
To: <TS-520_820_530_830@yahoogroups.com>
Subject: RE: [TS-520_820_530_830] Meter/Needle Light Bulb For Kenwood TS-830S

Jonathan-

Lamps are readily available on www.k4eaa.com . Open the top cover and
you'll see that replacement is a piece of cake. Also, read K4EAA's site for
an explanation of the TS-830S Gold.

-Dick-
N3XRU

_____

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jonathan ORear
Sent: Wednesday, October 07, 2009 8:17 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Meter/Needle Light Bulb For Kenwood TS-830S

Hello friends. My name is Jonathan B. O'Rear KD4MPW. I am in north centrla,
Alabama. Thank you for approving me to the group. I am the proud, new owner
of a Kenwood TS-830S. The only problem I see is that the meter/needle light
is out and I would like to find a replacement bulb and some install hints
would be helpful as well. Also, how do I know if my radio is the gold label
model? The name stamp under the dial knob has the letters/numbers Kenwood
TS-830S in gold but the large dial knob has a silver center. Any information
is appreciated and God Bless. 73's

Jonathan B. O'Rear KD4MPW Meridianville,Alabama

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22790. Re: Meter/Needle Light Bulb For Kenwood TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-08 15:49:37 UTC
From: Aaron
Topic: 22783 Message: 22790

Might have a look at these....

http://www.superbrightleds.com/specs/WW7035_specs.htm

KD4GSL

--- In TS-520_820_530_830@yahoogroups.com, Jonathan ORear <jonkd4mpw@...> wrote:
>
> Hello friends. My name is Jonathan B. O'Rear KD4MPW. I am in north centrla, Alabama. Thank you for approving me to the group. I am the proud, new owner of a Kenwood TS-830S. The only problem I see is that the meter/needle light is out and I would like to find a replacement bulb and some install hints would be helpful as well. Also, how do I know if my radio is the gold label model? The name stamp under the dial knob has the letters/numbers Kenwood TS-830S in gold but the large dial knob has a silver center. Any information is appreciated and God Bless. 73's
>
> Jonathan B. O'Rear KD4MPW Meridianville,Alabama
>
>
> JONATHAN B. O'REAR
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22791. RE: [TS-520_820_530_830] Meter/Needle Light Bulb For Kenwood TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-08 15:55:58 UTC
From: Dick Merryman
Topic: 22783 Message: 22791

Look at http://www.k4eaa.com/parts.htm .

-Dick-

_____

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jonathan B. O'Rear
Sent: Thursday, October 08, 2009 8:37 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Meter/Needle Light Bulb For Kenwood
TS-830S

Thank you Dick. Can you tell me where to find the lamps on his web site and
how to order 2 or 3 of them?
Jonmathan B. O'Rear Sent via BlackBerry by AT&T

-----Original Message-----
From: "Dick Merryman" <dicko@wormhole. <mailto:dicko%40wormhole.com> com>
Date: Wed, 7 Oct 2009 21:32:00
To: <TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com>
Subject: RE: [TS-520_820_530_830] Meter/Needle Light Bulb For Kenwood
TS-830S

Jonathan-

Lamps are readily available on www.k4eaa.com . Open the top cover and
you'll see that replacement is a piece of cake. Also, read K4EAA's site for
an explanation of the TS-830S Gold.

-Dick-
N3XRU

_____

From: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
[mailto:TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com] On Behalf Of Jonathan ORear
Sent: Wednesday, October 07, 2009 8:17 PM
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
Subject: [TS-520_820_530_830] Meter/Needle Light Bulb For Kenwood TS-830S

Hello friends. My name is Jonathan B. O'Rear KD4MPW. I am in north centrla, Alabama. Thank you for approving me to the group. I am the proud, new owner of a Kenwood TS-830S. The only problem I see is that the meter/needle light is out and I would like to find a replacement bulb and some install hints would be helpful as well. Also, how do I know if my radio is the gold label model? The name stamp under the dial knob has the letters/numbers Kenwood TS-830S in gold but the large dial knob has a silver center. Any information is appreciated and God Bless. 73's

Jonathan B. O'Rear KD4MPW Meridianville,Alabama

JONATHAN B. O'REAR
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22792. RE: [TS-520_820_530_830] What size tuning tools?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-08 16:00:16 UTC
From: Greg Anders
Topic: 22788 Message: 22792

My best advice is to buy a kit with all sizes of hex headed and bladed plastic tools. The last time I bought a new set two years ago I got them from Antique Electronic Supply in Tempe (www.tubesandmore.com<http://www.tubesandmore.com>). Their kit has sizes for everything from modern miniature slotted and hex coils to Boatanchors.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of douglaselick
Sent: Thursday, October 08, 2009 6:19 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] What size tuning tools?

I need to place an order to Mouser or Digikey for a few parts and thought I'd grab a proper set of tuning tools to align/neutralize my TS-830. Off the top of my head I can't remember what size I need and I'm nowhere near my rig at the moment. Are all the adjustments "flat blade" or are some of the slugs hex drive. If so, what size?

Non-conductive, not anti-static of course!

Thanks,

Doug/KC8HQX

[Non-text portions of this message have been removed]

22793. Re: [TS-520_820_530_830] Re: Meter/Needle Light Bulb For Kenwood TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-08 15:53:07 UTC
From: Jonathan B. O'Rear
Topic: 22783 Message: 22793

Will this led light fit into my radio?
Jonmathan B. O'Rear Sent via BlackBerry by AT&T

-----Original Message-----
From: "Aaron" <wm.aaron.lamb@...>
Date: Thu, 08 Oct 2009 15:49:37
To: <TS-520_820_530_830@yahoogroups.com>
Subject: [TS-520_820_530_830] Re: Meter/Needle Light Bulb For Kenwood TS-830S

Might have a look at these....

http://www.superbrightleds.com/specs/WW7035_specs.htm

KD4GSL

--- In TS-520_820_530_830@yahoogroups.com, Jonathan ORear <jonkd4mpw@...> wrote:
>
> Hello friends. My name is Jonathan B. O'Rear KD4MPW. I am in north centrla, Alabama. Thank you for approving me to the group. I am the proud, new owner of a Kenwood TS-830S. The only problem I see is that the meter/needle light is out and I would like to find a replacement bulb and some install hints would be helpful as well. Also, how do I know if my radio is the gold label model? The name stamp under the dial knob has the letters/numbers Kenwood TS-830S in gold but the large dial knob has a silver center. Any information is appreciated and God Bless. 73's
>
> Jonathan B. O'Rear KD4MPW Meridianville,Alabama
>
>
> JONATHAN B. O'REAR
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22794. RE: [TS-520_820_530_830] Re: Meter/Needle Light Bulb For Kenwood TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-08 16:26:21 UTC
From: Aaron Lamb
Topic: 22783 Message: 22794

It should be fine, you need 4 (I think) and you will have to add the appropriate resistor for 12V. Little more work but should last longer, be brighter and look original. That being said, getting the lights from Ken isn't a bad idea either, just thought I would give you a second option.

Aaron

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jonathan B. O'Rear
Sent: Thursday, October 08, 2009 11:53 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: Meter/Needle Light Bulb For Kenwood TS-830S

Will this led light fit into my radio?
Jonmathan B. O'Rear Sent via BlackBerry by AT&T

-----Original Message-----
From: "Aaron" <wm.aaron.lamb@... <mailto:wm.aaron.lamb%40gmail.com> >
Date: Thu, 08 Oct 2009 15:49:37
To: <TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com> >
Subject: [TS-520_820_530_830] Re: Meter/Needle Light Bulb For Kenwood TS-830S

Might have a look at these....

http://www.superbrightleds.com/specs/WW7035_specs.htm

KD4GSL

--- In TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com> , Jonathan ORear
<jonkd4mpw@...> wrote:
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> Hello friends. My name is Jonathan B. O'Rear KD4MPW. I am in north centrla, Alabama. Thank you for approving me to the group. I am the proud, new owner of a Kenwood TS-830S. The only problem I see is that the meter/needle light is out and I would like to find a replacement bulb and some install hints would be helpful as well. Also, how do I know if my radio is the gold label model? The name stamp under the dial knob has the letters/numbers Kenwood TS-830S in gold but the large dial knob has a silver center. Any information is appreciated and God Bless. 73's
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> Jonathan B. O'Rear KD4MPW Meridianville,Alabama

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22795. Re: [TS-520_820_530_830] DEAD KENWOOD TS-830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-08 16:58:13 UTC
From: George Campbell
Topic: 22768 Message: 22795

Gordon:I sent reply to u @ n6wk@n6wk..Let me know if u r'cd...Thanks George Campbell W1GCC Stuart,Fl 772-463-4700

From: "n6wk@..." <n6wk@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 7, 2009 12:27:08 PM
Subject: Re: [TS-520_820_530_830] DEAD KENWOOD TS-830

George,
I'll offer $200.00 plus shipping.
73,
Thanks,
Gordon

campbellgc@bellsout h.net wrote:
>
>
> Folks....I am presenting here the obituary of my Kenwood TS-830.I have
> given up, in trying to get it back in operating condition even after a
> lot of help from Mike W5RKL.The basic problem is on the RF circuit
> board.I believe, that in the manufacture of the circuit board in
> Japan, when I purchased the rig back in 1982 was corrupt as over the
> years I have had to resolder so many "volcano" solder joints. I have
> also had to hard wire connections 5,6 7 9,DRIVE on VC . In
> addition,the connection numbered 2 on the RF board needs to be hard
> wired as the connection causes the display lights to be intermittent
> There is a short somewhere on the RF circuit board as there is no
> drive voltage,about 200v, getting from the 12by7 drive tube to the
> finals. I probably have caused a short with so many resoldered points
> on the under side of the RF circuit board....Perhaps an all new RF
> board may fix the problem...I just do not have any more patience in
> removing and replacing the RF board..Also resister R-11 on the
> rectifier board keeps blowing from the "phantom short"
> The TS-830 has FT filters YF88H2.1 and YF455H2.1 installed A VFO-230
> goes with the TS-830 along with a MC-50 Microphone.Also, all the
> operating and service manuals, all my notes on the repairs over the years.
> Do I hear any offers,plus shipping?
> George Campbell W1GCC Stuart,FL 772-463-4700
>

[Non-text portions of this message have been removed]

22796. Speech Processor Quit working 0n TS-530

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-08 17:14:00 UTC
From: ah6rr1
Topic: 22796 Message: 22796

Yesterday my speech processor on my 530 quit working totaly when I press the processor button I get nothing out. The TX audio is fine until the Proc button is pushed. I will open it up and check Q14 since that seems to be the Proc preamp. Is there anything else I should check while I am in there? I did recently replace all the electrolytic caps and the processor was working fine but when I tried it yesterday zip. So any suggestions on where else to check would be welcome.

Thanks
Roland AH6RR

22797. RE: [TS-520_820_530_830] Speech Processor Quit working 0n TS-530

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-08 17:28:56 UTC
From: Greg Anders
Topic: 22796 Message: 22797

Does the 530 have a separate processor board? If not and its on a main board or IF board I would remove, clean and reseat any connector that is used for the processor circuit. 90+% pf Kenwood failures are connector issues in case you were not aware.

Greg
KG6yV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of ah6rr1
Sent: Thursday, October 08, 2009 10:14 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Speech Processor Quit working 0n TS-530

Yesterday my speech processor on my 530 quit working totaly when I press the processor button I get nothing out. The TX audio is fine until the Proc button is pushed. I will open it up and check Q14 since that seems to be the Proc preamp. Is there anything else I should check while I am in there? I did recently replace all the electrolytic caps and the processor was working fine but when I tried it yesterday zip. So any suggestions on where else to check would be welcome.

Thanks
Roland AH6RR

[Non-text portions of this message have been removed]

22798. Re: [TS-520_820_530_830] DEAD KENWOOD TS-830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-08 17:36:54 UTC
From: n6wk@n6wk.com
Topic: 22768 Message: 22798

Hi George,
Yes, I received it and sent a reply back.

George Campbell wrote:
>
>
> Gordon:I sent reply to u @ n6wk@n6wk..Let <mailto:n6wk%40n6wk..Let> me
> know if u r'cd...Thanks George Campbell W1GCC Stuart,Fl 772-463-4700
>
> _____
> From: "n6wk@... <mailto:n6wk%40n6wk.com>" <n6wk@...
> <mailto:n6wk%40n6wk.com>>
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Wednesday, October 7, 2009 12:27:08 PM
> Subject: Re: [TS-520_820_530_830] DEAD KENWOOD TS-830
>
>
> George,
> I'll offer $200.00 plus shipping.
> 73,
> Thanks,
> Gordon
>
> campbellgc@bellsout h.net wrote:
> >
> >
> > Folks....I am presenting here the obituary of my Kenwood TS-830.I have
> > given up, in trying to get it back in operating condition even after a
> > lot of help from Mike W5RKL.The basic problem is on the RF circuit
> > board.I believe, that in the manufacture of the circuit board in
> > Japan, when I purchased the rig back in 1982 was corrupt as over the
> > years I have had to resolder so many "volcano" solder joints. I have
> > also had to hard wire connections 5,6 7 9,DRIVE on VC . In
> > addition,the connection numbered 2 on the RF board needs to be hard
> > wired as the connection causes the display lights to be intermittent
> > There is a short somewhere on the RF circuit board as there is no
> > drive voltage,about 200v, getting from the 12by7 drive tube to the
> > finals. I probably have caused a short with so many resoldered points
> > on the under side of the RF circuit board....Perhaps an all new RF
> > board may fix the problem...I just do not have any more patience in
> > removing and replacing the RF board..Also resister R-11 on the
> > rectifier board keeps blowing from the "phantom short"
> > The TS-830 has FT filters YF88H2.1 and YF455H2.1 installed A VFO-230
> > goes with the TS-830 along with a MC-50 Microphone.Also, all the

> > operating and service manuals, all my notes on the repairs over the
> years.
> > Do I hear any offers,plus shipping?
> > George Campbell W1GCC Stuart,FL 772-463-4700
> >
>

22799. Re: [TS-520_820_530_830] DEAD KENWOOD TS-830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-08 18:02:05 UTC
From: George Campbell
Topic: 22768 Message: 22799

Gordon...Please send shipping instructions again...Apparently the shipping e-mail is still traveling the internet...George

---
From: "n6wk@..." <n6wk@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, October 8, 2009 1:36:54 PM
Subject: Re: [TS-520_820_530_830] DEAD KENWOOD TS-830

Hi George,
Yes, I received it and sent a reply back.

George Campbell wrote:
>
>
> Gordon:I sent reply to u @ n6wk@n6wk..Let <mailto:n6wk% 40n6wk..Let> me
> know if u r'cd...Thanks George Campbell W1GCC Stuart,Fl 772-463-4700
>
> _____ _____ _____ __
> From: "n6wk@... <mailto:n6wk% 40n6wk.com> " <n6wk@...
> <mailto:n6wk% 40n6wk.com> >
> To: TS-520_820_530_ 830@yahoogroups. com
> <mailto:TS-520_ 820_530_830% 40yahoogroups. com>
> Sent: Wednesday, October 7, 2009 12:27:08 PM
> Subject: Re: [TS-520_820_ 530_830] DEAD KENWOOD TS-830
>
>
> George,
> I'll offer $200.00 plus shipping.
> 73,
> Thanks,
> Gordon
>
> campbellgc@bellsout h.net wrote:
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> > There is a short somewhere on the RF circuit board as there is no

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> years.
> > Do I hear any offers,plus shipping?
> > George Campbell W1GCC Stuart,FL 772-463-4700
> >
>

[Non-text portions of this message have been removed]

22800. Re: DEAD KENWOOD TS-830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-08 18:18:39 UTC
From: n6wk_skcc3
Topic: 22768 Message: 22800

Just emailed you again George and I used a different account this time.
Hope you get it.

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, George Campbell <campbellgc@...> wrote:
>
> Gordon...Please send shipping instructions again...Apparently the shipping e-mail is still traveling the internet...George
>
>
>
>
> _____
> From: "n6wk@..." <n6wk@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, October 8, 2009 1:36:54 PM
> Subject: Re: [TS-520_820_530_830] DEAD KENWOOD TS-830
>
>
> Hi George,
> Yes, I received it and sent a reply back.
>
> George Campbell wrote:
> >
> >
> > Gordon:I sent reply to u @ n6wk@... <mailto:n6wk% 40n6wk..Let> me
> > know if u r'cd...Thanks George Campbell W1GCC Stuart,Fl 772-463-4700
> >
> > _____ _____ _____ __
> > From: "n6wk@... <mailto:n6wk% 40n6wk.com> " <n6wk@...
> > <mailto:n6wk% 40n6wk.com> >
> > To: TS-520_820_530_ 830@yahoogroups. com
> > <mailto:TS-520_ 820_530_830% 40yahoogroups. com>
> > Sent: Wednesday, October 7, 2009 12:27:08 PM
> > Subject: Re: [TS-520_820_ 530_830] DEAD KENWOOD TS-830
> >
> >
> > George,
> > I'll offer $200.00 plus shipping.
> > 73,
> > Thanks,
> > Gordon
> >

> > campbellgc@bellsout h.net wrote:
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> > > Japan, when I purchased the rig back in 1982 was corrupt as over the
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> > > also had to hard wire connections 5,6 7 9,DRIVE on VC . In
> > > addition,the connection numbered 2 on the RF board needs to be hard
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> > > There is a short somewhere on the RF circuit board as there is no
> > > drive voltage,about 200v, getting from the 12by7 drive tube to the
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> > > on the under side of the RF circuit board....Perhaps an all new RF
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> > > removing and replacing the RF board...Also resister R-11 on the
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> > > operating and service manuals, all my notes on the repairs over the
> > years.
> > > Do I hear any offers,plus shipping?
> > > George Campbell W1GCC Stuart,FL 772-463-4700
> > >
> >
>
>
>
>
> [Non-text portions of this message have been removed]
>

22801. Re: TS-520 12 volt homebrew power cord.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-08 19:31:59 UTC
From: kd8aiv
Topic: 22685 Message: 22801

Lee,

Glad to hear. Enjoy.

Steve
KD8AIV

--- In TS-520_820_530_830@yahoogroups.com, Lehmen Keyes <leekeyes@...> wrote:
>
> Steve...got the cord yesterday/plug yesterday. Again I want to thank you.
> Lee KD8INW
>
>
>
>
> _____
> From: kd8aiv <kd8aiv@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sat, October 3, 2009 10:00:35 PM
> Subject: [TS-520_820_530_830] Re: TS-520 12 volt homebrew power cord.
>
>
> Lee,
>
> You are the first in line for the cord. You can email me your shipping address and I will get it in the mail on Monday.
>
> 73,
> Steve
> KD8AIV
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Lehmen Keyes <leekeyes@ .> wrote:
> >
> >
> >
> >
> >
> >
> > _____ _____ _____ __
> > From: kd8aiv <kd8aiv@>
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Sent: Saturday, October 3, 2009 3:17:42 PM
> > Subject: [TS-520_820_ 530_830] TS-520 12 volt homebrew power cord.
> > If no one has beat me to it, I'd be happy to make my 520 even happier.
> > Lee KD8INW
> > .

> >
> >
> >
> >
> >
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> >
> > [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
>

22802. WTB: 12 VDC "bolt on" power supply for Kenwood TS-520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-08 20:09:26 UTC
From: Howard Weinstein
Topic: 22685 Message: 22802

Gang,

The End of the World is scheduled for December 21, 2012.

Therefore I am assuming that we will have difficulty accessing the 120 VAC Mains on or after that date..

I would like to purchase a 12 VDC bolt on power supply for the Kenwood TS-520s. I am also interested in a TS-520s in very good or better shape with the 12 VDC supply already attached.

If you can assist me in this endeavour please contact me off list.

73 de Howie K3HW

[Non-text portions of this message have been removed]

22803. Re: ts 830s- no display, no receive.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-08 23:13:35 UTC
From: ve3ptc57
Topic: 22760 Message: 22803

hi mike, mni tnx for reply/info. i checked the af board as suggested, and im confused. i see 12.26 volts at terminal 12, and 8.95 volts at tp6, but nothing at terminal 14 ?
i think im going to remove the power supply, and the af/avr board, and have an electrician look at it for me.
again, many thanks for info/help.
73 de bob.

22804. Re: Speech Processor Quit working 0n TS-530

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-08 23:15:38 UTC
From: ah6rr1
Topic: 22796 Message: 22804

Well replacing Q14 did not help. I checked the swtich and it was ok then started going over the board and it looked fine traced to the AF board and found the voltage at Q30 on the AF board had 3.2 volts with out the processor and -5.98 with the processor in. Could this be the problem area?

Roland AH6RR

--- In TS-520_820_530_830@yahoogroups.com, "ah6rr1" <ah6rr@...> wrote:
>
> Yesterday my speech processor on my 530 quit working totaly when I press the processor button I get nothing out. The TX audio is fine until the Proc button is pushed. I will open it up and check Q14 since that seems to be the Proc preamp. Is there anything else I should check while I am in there? I did recently replace all the electrolytic caps and the processor was working fine but when I tried it yesterday zip. So any suggestions on where else to check would be welcome.
>
> Thanks
> Roland AH6RR
>

22805. RE: [TS-520_820_530_830] Re: Speech Processor Quit working 0n TS-530

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-08 23:48:39 UTC
From: Greg Anders
Topic: 22796 Message: 22805

According to the Service Manual, Q13 (a SIP op amp with seven pins) IS the compressor and Q14 is an output buffer. If you have the processor off the mic line goes out of Q12 to a connector on the board marked (10). It's a seven pin connector (pin6 for normal audio). If you turn on the processor the audio from Q12 goes first to Q13 the compressor IC then to Q14. Then it goes out on the same connector (10) (pin 7 for processed audio) to the balanced modulator which is elsewhere on the IF board.

If you have a scope check to see if there is any drive to the compressor opamp (Q13) on pin1. If that is OK you can check the output of the opamp on pin 3 or the output of Q14 on either side of coupling cap C65 which couples the signal to the connector (10) which is on the board.

Hope this helps, static voltage checks are not very useful unless you have a chart from Kenwood telling you what you should see on the device.

Greg
KG6yV
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of ah6rr1
Sent: Thursday, October 08, 2009 4:16 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: Speech Processor Quit working 0n TS-530

Well replacing Q14 did not help. I checked the swtich and it was ok then started going over the board and it looked fine traced to the AF board and found the voltage at Q30 on the AF board had 3.2 volts with out the processor and -5.98 with the processor in. Could this be the problem area?

Roland AH6RR

--- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "ah6rr1" <ah6rr@...> wrote:
>
> Yesterday my speech processor on my 530 quit working totaly when I press the processor button I get nothing out. The TX audio is fine until the Proc button is pushed. I will open it up and check Q14 since that seems to be the Proc preamp. Is there anything else I should check while I am in there? I did recently replace all the electrolytic caps and the processor was working fine but when I tried it yesterday zip. So any suggestions on where else to check would be welcome.
>
> Thanks
> Roland AH6RR
>

[Non-text portions of this message have been removed]

22806. My sick TS-830 is now mute. Assistance/Elmer would be greatly appreciated.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-09 02:08:03 UTC
From: douglaselick
Topic: 22806 Message: 22806

I've had ALC problems for a while that I've attributed to a bad 12BY7. I replaced the 12BY7, trying both "new" JAN GE tubes I received from Surplus of Nebraska and the problem still persists. Though plate voltage and current stay constant and I can get at least 100 watts out from 30m - 160m, the ALC is still weak with the CAR control maxed out and it sags down even in tune-up mode. Additionally, the higher up the bands I go towards 10m, the twitchier tuning gets; peak RF is nowhere near the plate dip and 100 watts is impossible to make. The ALC weakness seems to get worse when the rig is warmer and possibly more erratic. I had an inkling that the finals might be bad, but the symptoms don't quite add up in my tube virgin brain.

I thought I'd make sure connections look good and are clean before posting here which was likely a big mistake. I Re-tightened all the screws I could reach, removed the VCO coax plugged into the RF board and reinserted it. Now I don't know if I caused the problem or just exacerbated a marginal connection, but as I was plugging in the connector, I slipped and jammed my hemostat into the board. Now one of the leads for coil T3 on the RF board is severed and I have NO output at all.

I've been fixing small radios and building kits since I was a kid, but getting the RF board out, repairing or replacing the coil and getting it reassembled correctly might be to big of a bite to chew. Additionally, thought I'm decent with my soldering station, the coil wires are barely visible and probably on the edge of my skills.

My "bench" is simple but functional: An old HP frequency counter, O-scope, DMM, digital soldering station and a hardly stable signal generator. I'm waiting for my 1n34As to arrive to build an RF probe.

I bought the '830 because I always wanted one and I wanted to gain first hand experience operating and repairing tube output circuits. Aside from a quad EL34 guitar amplifier I've been nursing over the years, this rig is the first high voltage kit I'll be getting my hands into.

I'm mad at myself for wounding my favorite and ONLY rig at the moment; I'm off the air now. I'm stopping to take a breath and ask for advice before compulsively tearing a rig full of irreplaceable parts apart. I had considered sending it out to K4EAA for an alignment/tune-up before any of this happened , but I won't learn anything by taking that route. Instead, I decided to stock up my tool kit and get to it. Now, through a stupid slip up, I've managed to completely silence the rig 45 minutes after opening it up.

What are your suggestions? Are any of you in or around the Cincinnati area and interested in lending a hand? After a deep breath and a night to sleep on it, I can probably carefully disassemble the rig and fix the board, but it's going to take a good deal of time and some local guidance would be greatly appreciated. The urge to rush and get back on the air will be hard to resist. Failing that, are there any shops in the Cincinnati/Tri-State area you'd trust with a hybrid Kenwood?

Thanks,

Doug/KC8HQX

22807. Re: [TS-520_820_530_830] DEAD KENWOOD TS-830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-09 16:30:18 UTC
From: George Campbell
Topic: 22768 Message: 22807

Gordon...The TS_830 & FVO & MC-50 MIKE shipped this AM by USPS. I am shipping manuals separate as I negleted to insert in one of the boxes. I insured both boxes for $2200.Shipping charges were $77.42 +$200=$277.42..A check will do..Good luck with getting the rig operational...I wud be curious if u do get it fixed where the problem(s) were....George Campbell W1GCC...Stuart,FL 772-463-4700...The post lady indicated it will be about 7 days to arrive at Santa Ana

---

From: "n6wk@..." <n6wk@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 7, 2009 12:27:08 PM
Subject: Re: [TS-520_820_530_830] DEAD KENWOOD TS-830

George,
I'll offer $200.00 plus shipping.
73,
Thanks,
Gordon

campbellgc@bellsout h.net wrote:
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> Folks....I am presenting here the obituary of my Kenwood TS-830.I have
> given up, in trying to get it back in operating condition even after a
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> removing and replacing the RF board..Also resister R-11 on the
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> The TS-830 has FT filters YF88H2.1 and YF455H2.1 installed A VFO-230
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> operating and service manuals, all my notes on the repairs over the years.
> Do I hear any offers,plus shipping?
> George Campbell W1GCC Stuart,FL 772-463-4700
>

[Non-text portions of this message have been removed]

22808. Re: TS-820s Rectifier board measurements.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-09 21:31:03 UTC
From: trippkj4bkd
Topic: 22690 Message: 22808

--- In TS-520_820_530_830@yahoogroups.com, "trippkj4bkd" <thomasenglish3@...> wrote:
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Robert DROGOUL" <f5ul@> wrote:
> >
> > Hi Tripp
> > Just beware, it's not 50/60 mv, but minus 50 or minus 60 VOLTS!!!
> > At 60 mv the 6146 is blown sky hight!!!
> > 73
> > F5UL Bob
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
> Hello all,
>
> Thanks to all the quick responses.
>
> I have gone thru the checking of the voltages on the Rectifier Board
> (X43-1090-02) and yes I realize thanks to you guys that I am blowing cathode resitors and not scren grid resistors.
>
> Here are my findings.
> AC14V pin-15.7
> 14V pin-15.7
> 100V pin-88.2
> 210V pin-248
> 300V pin-248
> AC800V pin-Off the scale of Senior VoltOhlmyst meter that is not very accurate anyway. Need to recalibrate this old meter.
> 800V pin- Could get no reading.
> Now just to be clear all measurements were read in AC. Should I have read for DC on pins not marked AC?.
>
> Here is whare it gets interesting.
> 300V A/B pin-742 very quick measurement on 500v scale of DVM.
> 210V A/B pin-560
> -C pin- 253V DC
> I do not have access to an Elmer to help me with this so please bare with me. Should I remove Rectifier board and check components such as resistors, capacitors and diodes removed from board?. I tried reading resistors while they are still mounted on board but could not get a reading except for R9 100K Ohm that showed 640 Ohms. What really scares me is what is causeing Rectifier board to go bad if theese measurements are even slightly

accurate.
>
> Any advice please.
> Tripp KJ4BKD
>

22809. Kenwood TS-830S MARS Question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-10 03:43:23 UTC
From: jonkd4mpw
Topic: 22809 Message: 22809

Hello friends. I am the proud new owner of a Kenwood TS-830S. I was wondering if this radio is able to transmit on MARS frequencies. If not, is there a modification available to make the radio to where it can transmit on MARS frequencies. Please let me know and yhank you.

Jonathan B. O'Rear

KD4MPW

22810. Re: DEAD KENWOOD TS-830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-10 03:58:58 UTC
From: n6wk_skcc3
Topic: 22768 Message: 22810

Thanks George,
Check has been mailed.
I will let you know what I find. I LOVE a challenge !!!
I don't know why my emails don't go through to you directly, but I apologize to the group for this small issue.
73 to all,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, George Campbell <campbellgc@...> wrote:
>
> Gordon...The TS_830 & FVO & MC-50 MIKE shipped this AM by USPS. I am shipping manuals separate as I negleted to insert in one of the boxes. I insured both boxes for $2200.Shipping charges were $77.42 +$200=$277.42..A check will do..Good luck with getting the rig operational...I wud be curious if u do get it fixed where the problem(s) were....George Campbell W1GCC...Stuart,FL 772-463-4700...The post lady indicated it will be about 7 days to arrive at Santa Ana
> >
> >
> >
> >
> > _____
> > From: "n6wk@..." <n6wk@...>
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Wednesday, October 7, 2009 12:27:08 PM
> > Subject: Re: [TS-520_820_530_830] DEAD KENWOOD TS-830
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> >
> > George,
> > I'll offer $200.00 plus shipping.
> > 73,
> > Thanks,
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> > > Japan, when I purchased the rig back in 1982 was corrupt as over the
> > > years I have had to resolder so many "volcano" solder joints. I have
> > > also had to hard wire connections 5,6 7 9,DRIVE on VC . In
> > > addition,the connection numbered 2 on the RF board needs to be hard
> > > wired as the connection causes the display lights to be intermittent

> > There is a short somewhere on the RF circuit board as there is no
> > drive voltage,about 200v, getting from the 12by7 drive tube to the
> > finals. I probably have caused a short with so many resoldered points
> > on the under side of the RF circuit board....Perhaps an all new RF
> > board may fix the problem....I just do not have any more patience in
> > removing and replacing the RF board..Also resister R-11 on the
> > rectifier board keeps blowing from the "phantom short"
> > The TS-830 has FT filters YF88H2.1 and YF455H2.1 installed A VFO-230
> > goes with the TS-830 along with a MC-50 Microphone.Also, all the
> > operating and service manuals, all my notes on the repairs over the years.
> > Do I hear any offers,plus shipping?
> > George Campbell W1GCC Stuart,FL 772-463-4700
> >
>
>
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>
> [Non-text portions of this message have been removed]
>

22811. Re: [TS-520_820_530_830] Kenwood TS-830S MARS Question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-10 04:27:22 UTC
From: Dave ve3wej
Topic: 22809 Message: 22811

doesn't the radio have to be general coverage receive to be able to transmit there as well. I don't believe the hybrid were general at all...

From: "jonkd4mpw" <jonkd4mpw@...>
Sent: Friday, October 09, 2009 11:43 PM
To: <TS-520_820_530_830@yahoogroups.com>
Subject: [TS-520_820_530_830] Kenwood TS-830S MARS Question

> Hello friends. I am the proud new owner of a Kenwood TS-830S. I was
> wondering if this radio is able to transmit on MARS frequencies. If not,
> is there a modification available to make the radio to where it can
> transmit on MARS frequencies. Please let me know and yhank you.
>
> Jonathan B. O'Rear
>
> KD4MPW
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> Yahoo! Groups Links
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22812. Re: [TS-520_820_530_830] Re: DEAD KENWOOD TS-830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-10 11:41:53 UTC
From: George Campbell
Topic: 22768 Message: 22812

OK Gordon...Hope u enjoy in finding the problem(s)..I forgot to give u my Street Adr...Hopefully u found my ADR on QRZ...The manuals are coming under separate cover...George Campbell 3797 SE Bluebill Pl,Stuart,FL 34997

_____
From: n6wk_skcc3 <n6wk@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 9, 2009 11:58:58 PM
Subject: [TS-520_820_530_830] Re: DEAD KENWOOD TS-830

Thanks George,
Check has been mailed.
I will let you know what I find. I LOVE a challenge !!!
I don't know why my emails don't go through to you directly, but I apologize to the group for this small issue.
73 to all,
Gordon

--- In TS-520_820_530_ 830@yahoogroups. com, George Campbell <campbellgc@ ...> wrote:
>
> Gordon...The TS_830 & FVO & MC-50 MIKE shipped this AM by USPS. I am shipping manuals separate as I negleted to insert in one of the boxes. I insured both boxes for $2200.Shipping charges were $77.42 +$200=$277.42. .A check will do..Good luck with getting the rig operational. ..I wud be curious if u do get it fixed where the problem(s) were....George Campbell W1GCC...Stuart, FL 772-463-4700. ..The post lady indicated it will be about 7 days to arrive at Santa Ana
>
>
>
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> _____ _____ _____ __
> From: "n6wk@..." <n6wk@....>
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Wednesday, October 7, 2009 12:27:08 PM
> Subject: Re: [TS-520_820_ 530_830] DEAD KENWOOD TS-830
>
>
> George,
> I'll offer $200.00 plus shipping.
> 73,
> Thanks,
> Gordon
>
> campbellgc@bellsout h.net wrote:
> >
> >

> > Folks....I am presenting here the obituary of my Kenwood TS-830.I have
> > given up, in trying to get it back in operating condition even after a
> > lot of help from Mike W5RKL.The basic problem is on the RF circuit
> > board.I believe, that in the manufacture of the circuit board in
> > Japan, when I purchased the rig back in 1982 was corrupt as over the
> > years I have had to resolder so many "volcano" solder joints. I have
> > also had to hard wire connections 5,6 7 9,DRIVE on VC . In
> > addition,the connection numbered 2 on the RF board needs to be hard
> > wired as the connection causes the display lights to be intermittent
> > There is a short somewhere on the RF circuit board as there is no
> > drive voltage,about 200v, getting from the 12by7 drive tube to the
> > finals. I probably have caused a short with so many resoldered points
> > on the under side of the RF circuit board....Perhaps an all new RF
> > board may fix the problem....I just do not have any more patience in
> > removing and replacing the RF board..Also resister R-11 on the
> > rectifier board keeps blowing from the "phantom short"
> > The TS-830 has FT filters YF88H2.1 and YF455H2.1 installed A VFO-230
> > goes with the TS-830 along with a MC-50 Microphone.Also, all the
> > operating and service manuals, all my notes on the repairs over the years.
> > Do I hear any offers,plus shipping?
> > George Campbell W1GCC Stuart,FL 772-463-4700
> >
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> [Non-text portions of this message have been removed]
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22813. Re: [TS-520_820_530_830] Kenwood TS-830S MARS Question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-10 12:08:26 UTC
From: John Davidson
Topic: 22809 Message: 22813

I know the TS52o has 4 xtal positions for out of band fixed freq operation but the 530/830 have a totally different scheme for generating signals.

--- On Sat, 10/10/09, Dave ve3wej <ve3wej@...> wrote:

From: Dave ve3wej <ve3wej@...>
Subject: Re: [TS-520_820_530_830] Kenwood TS-830S MARS Question
To: TS-520_820_530_830@yahoogroups.com
Date: Saturday, October 10, 2009, 12:27 AM

doesn't the radio have to be general coverage receive to be able to transmit there as well. I don't believe the hybrid were general at all...

------------ --------- --------- --------- --------- --
From: "jonkd4mpw" <jonkd4mpw@yahoo. com>
Sent: Friday, October 09, 2009 11:43 PM
To: <TS-520_820_530_ 830@yahoogroups. com>
Subject: [TS-520_820_ 530_830] Kenwood TS-830S MARS Question

> Hello friends. I am the proud new owner of a Kenwood TS-830S. I was
> wondering if this radio is able to transmit on MARS frequencies. If not,
> is there a modification available to make the radio to where it can
> transmit on MARS frequencies. Please let me know and yhank you.
>
> Jonathan B. O'Rear
>
> KD4MPW
>
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

22814. Re: [TS-520_820_530_830] Kenwood TS-830S MARS Question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-10 12:59:37 UTC
From: Calvin Rousseau
Topic: 22809 Message: 22814

I was a MARS member for a short time many years ago, I used a TS-520SE. In my experience, MARS selects frequencies that are just beyond the legal band "edges" for normal amateur operation. The TS-520 (having a 600kc bandwidth VFO), easily tuned far enough outside the normal ham frequencies to allow MARS operation without any modifications. I'm not sure if the 820/530/830 series will also do this with their synthesized frequency generation schemes. To check, tune your 830's receiver beyond the band edges, if it will tune far enough to receive the MARS frequencies, then these rigs will also transmit there. This ability to operate to a limited degree outside the amateur bands is simply a byproduct of the design and technology of the era in which these rigs were built. The "unlocking" of MARS/general coverage transmit capability didn't even become an issue until the advent of the solid state rigs withe their digital frequency generation schemes, and the ability of designers to incorporate transmit frequency limits. Historically, this coincided with the boom in CB radio popularity and the widespread illegal operation that plagues us all to this day.
Calvin WO?L :)
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22815. Re: [TS-520_820_530_830] Kenwood TS-830S MARS Question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-10 04:48:14 UTC
From: Jonathan ORear
Topic: 22809 Message: 22815

I am not really sure. Is there a modification out there are does it have to be the VFO 230 purchased?

JONATHAN B. O'REAR
AMATEUR/HAM RADIO COMMUNICATIONS/SHORTWAVE RADIO/TECHNICIAN CLASS/KD4MPW
EMERGENCY MEDICAL TECHNICIAN-BASIC LICENSED
NATIONAL WEATHER SERVICE-SEVERE WEATHER STORM SPOTTER/ADVANCED LEVEL
FIREFIGHTER

From: Dave ve3wej <ve3wej@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Fri, October 9, 2009 11:27:22 PM
Subject: Re: [TS-520_820_530_830] Kenwood TS-830S MARS Question

doesn't the radio have to be general coverage receive to be able to transmit
there as well. I don't believe the hybrid were general at all...

From: "jonkd4mpw" <jonkd4mpw@yahoo. com>
Sent: Friday, October 09, 2009 11:43 PM
To: <TS-520_820_530_ 830@yahoogroups. com>
Subject: [TS-520_820_ 530_830] Kenwood TS-830S MARS Question

> Hello friends. I am the proud new owner of a Kenwood TS-830S. I was
> wondering if this radio is able to transmit on MARS frequencies. If not,
> is there a modification available to make the radio to where it can
> transmit on MARS frequencies. Please let me know and yhank you.
>
> Jonathan B. O'Rear
>
> KD4MPW
>
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22816. Re: [TS-520_820_530_830] Meter/Needle Light Bulb For Kenwood TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-10 04:25:02 UTC
From: Jonathan ORear
Topic: 22783 Message: 22816

Thank you Dick and Aaron. I e-mailed K4EAA on more than 1 ocassion but never received a response either time. Can you give me another web site to find this bulb for the Kenwood TS-830S? Thank you friend

JONATHAN B. O'REAR
AMATEUR/HAM RADIO COMMUNICATIONS/SHORTWAVE RADIO/TECHNICIAN CLASS/KD4MPW
EMERGENCY MEDICAL TECHNICIAN-BASIC LICENSED
NATIONAL WEATHER SERVICE-SEVERE WEATHER STORM SPOTTER/ADVANCED LEVEL
FIREFIGHTER

_____
From: Dick Merryman <dicko@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wed, October 7, 2009 11:32:00 PM
Subject: RE: [TS-520_820_530_830] Meter/Needle Light Bulb For Kenwood TS-830S

Jonathan-

Lamps are readily available on www.k4eaa.com . Open the top cover and
you'll see that replacement is a piece of cake. Also, read K4EAA's site for
an explanation of the TS-830S Gold.

-Dick-
N3XRU

From: TS-520_820_530_ 830@yahoogroups. com
[mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of Jonathan ORear
Sent: Wednesday, October 07, 2009 8:17 PM
To: TS-520_820_530_ 830@yahoogroups. com
Subject: [TS-520_820_ 530_830] Meter/Needle Light Bulb For Kenwood TS-830S

Hello friends. My name is Jonathan B. O'Rear KD4MPW. I am in north centrla,
Alabama. Thank you for approving me to the group. I am the proud, new owner
of a Kenwood TS-830S. The only problem I see is that the meter/needle light
is out and I would like to find a replacement bulb and some install hints
would be helpful as well. Also, how do I know if my radio is the gold label
model? The name stamp under the dial knob has the letters/numbers Kenwood
TS-830S in gold but the large dial knob has a silver center. Any information
is appreciated and God Bless. 73's

Jonathan B. O'Rear KD4MPW Meridianville, Alabama

JONATHAN B. O'REAR
AMATEUR/HAM RADIO COMMUNICATIONS/ SHORTWAVE RADIO/TECHNICIAN CLASS/KD4MPW

EMERGENCY MEDICAL TECHNICIAN-BASIC LICENSED
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22817. Re: VFO 240 for sale...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-10 07:16:57 UTC
From: jonkd4mpw
Topic: 22299 Message: 22817

Hello friend. Is the Kenwood VFO 240 still for sale? Please let me know or call me at 256-412-3303. Can you send me some pics and does this unit allow the Kenwood TS830S to operate on MARS bands? Thank you.

Jonathan

--- In TS-520_820_530_830@yahoogroups.com, "ke1lg" <hanson@...> wrote:
>
> I have a Kenwood VFO 240, with cable, very nice condition. Much reliable than the VFO-230...(Ken, K4EAA uses the 240!)
>
> 150.00 + shipping USPS from Maine
>
> Tnx,
> Steve in Maine
>

22818. Re: [TS-520_820_530_830] Re: Meter/Needle Light Bulb For Kenwood TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-10 06:33:17 UTC
From: Jonathan ORear
Topic: 22783 Message: 22818

Hello Aaron. How do you install this 12.5 volt resistor? I have e-mailed Ken on 3 different occasions with no response. Do you know of another place I can get these lamps or a substitute?

JONATHAN B. O'REAR
AMATEUR/HAM RADIO COMMUNICATIONS/SHORTWAVE RADIO/TECHNICIAN CLASS/KD4MPW
EMERGENCY MEDICAL TECHNICIAN-BASIC LICENSED
NATIONAL WEATHER SERVICE-SEVERE WEATHER STORM SPOTTER/ADVANCED LEVEL
FIREFIGHTER

_____
From: Aaron Lamb <wm.aaron.lamb@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thu, October 8, 2009 11:26:21 AM
Subject: RE: [TS-520_820_530_830] Re: Meter/Needle Light Bulb For Kenwood TS-830S

It should be fine, you need 4 (I think) and you will have to add the
appropriate resistor for 12V. Little more work but should last longer, be
brighter and look original. That being said, getting the lights from Ken
isn't a bad idea either, just thought I would give you a second option.

Aaron

From: TS-520_820_530_ 830@yahoogroups. com
[mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of Jonathan B. O'Rear
Sent: Thursday, October 08, 2009 11:53 AM
To: TS-520_820_530_ 830@yahoogroups. com
Subject: Re: [TS-520_820_ 530_830] Re: Meter/Needle Light Bulb For Kenwood
TS-830S

Will this led light fit into my radio?
Jonmathan B. O'Rear Sent via BlackBerry by AT&T

-----Original Message-----
From: "Aaron" <wm.aaron.lamb@ gmail.com <mailto:wm.aaron. lamb%40gmail. com> >
Date: Thu, 08 Oct 2009 15:49:37
To: <TS-520_820_530_ 830@yahoogroups. com
<mailto:TS-520_ 820_530_830% 40yahoogroups. com> >
Subject: [TS-520_820_ 530_830] Re: Meter/Needle Light Bulb For Kenwood
TS-830S

Might have a look at these....

http://www.superbrightleds.com/specs/WW7035_specs.htm

KD4GSL

--- In TS-520_820_530_ 830@yahoogroups. com
<mailto:TS-520_ 820_530_830% 40yahoogroups. com> , Jonathan ORear
<jonkd4mpw@. ..> wrote:
>
> Hello friends. My name is Jonathan B. O'Rear KD4MPW. I am in north centrla, Alabama. Thank you for approving me to the group. I am the proud, new owner of a Kenwood TS-830S. The only problem I see is that the meter/needle light is out and I would like to find a replacement bulb and some install hints would be helpful as well. Also, how do I know if my radio is the gold label model? The name stamp under the dial knob has the letters/numbers Kenwood TS-830S in gold but the large dial knob has a silver center. Any information is appreciated and God Bless. 73's
>
> Jonathan B. O'Rear KD4MPW Meridianville, Alabama
>
>
> JONATHAN B. O'REAR
> AMATEUR/HAM RADIO COMMUNICATIONS/ SHORTWAVE RADIO/TECHNICIAN CLASS/KD4MPW
> EMERGENCY MEDICAL TECHNICIAN-BASIC LICENSED
> NATIONAL WEATHER SERVICE-SEVERE WEATHER STORM SPOTTER/ADVANCED LEVEL
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22819. Re: [TS-520_820_530_830] Kenwood TS-830S MARS Question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-10 16:04:29 UTC
From: Jonathan B. O'Rear
Topic: 22809 Message: 22819

May have to purchase the vfo 240?
Jonathan B. O'Rear / AT&T Blackberry Bold 9000

-----Original Message-----
From: John Davidson <k8jd@...>
Date: Sat, 10 Oct 2009 05:08:26
To: <TS-520_820_530_830@yahoogroups.com>
Subject: Re: [TS-520_820_530_830] Kenwood TS-830S MARS Question

I know the TS52o has 4 xtal positions for out of band fixed freq operation but the 530/830 have a totally different scheme for generating signals.

--- On Sat, 10/10/09, Dave ve3wej <ve3wej@...> wrote:

From: Dave ve3wej <ve3wej@...>
Subject: Re: [TS-520_820_530_830] Kenwood TS-830S MARS Question
To: TS-520_820_530_830@yahoogroups.com
Date: Saturday, October 10, 2009, 12:27 AM

?

doesn't the radio have to be general coverage receive to be able to transmit there as well. I don't believe the hybrid were general at all...

---------- --------- --------- --------- --------- --
From: "jonkd4mpw" <jonkd4mpw@yahoo. com>
Sent: Friday, October 09, 2009 11:43 PM
To: <TS-520_820_530_ 830@yahoogroups. com>
Subject: [TS-520_820_ 530_830] Kenwood TS-830S MARS Question

> Hello friends. I am the proud new owner of a Kenwood TS-830S. I was
> wondering if this radio is able to transmit on MARS frequencies. If not,
> is there a modification available to make the radio to where it can
> transmit on MARS frequencies. Please let me know and yhank you.
>
> Jonathan B. O'Rear
>
> KD4MPW
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22820. Re: Kenwood TS-830S MARS Question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-10 16:20:09 UTC
From: w5rkl
Topic: 22809 Message: 22820

--- In TS-520_820_530_830@yahoogroups.com, John Davidson <k8jd@...> wrote:
>
> I know the TS52o has 4 xtal positions for out of band fixed freq
> operation but the 530/830 have a totally different scheme for
> generating signals.

The 4 fixed crystal positions are not for "out of band operation". Each crystal position, depending on the position of the FUNCTION switch (VFO-R, FIX-R, or FIX), provides for frequency control as follows:

1. VFO-R - Receiver frequency is controlled by the VFO. Transmitter frequency is controlled by the crystal.

2. FIX-R - Receiver frequency is controlled by the crystal. Transmitter frequency is controlled by the crystal.

3. FIX - Both receive and transmit frequency is crystal controlled.

The crystal frequencies must be between 5.000Mhz and 5.500Mhz. The crystal(s), again depending on the position of the FUNCTION switch, simply replaces the VFO in receive, transmit, or both receive and transmit. See the 520 and 820 operators manual for details on how to calculate the crystal frequency.

73's
Mike W5RKL

22821. Re: Meter/Needle Light Bulb For Kenwood TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-10 16:17:37 UTC
From: ah6rr1
Topic: 22783 Message: 22821

Aloha Jonathan,
I emailed Ken and go a responce in less than a hour. Check your anti-spam. Also Radio Shack sells these bulbs I saw some yesterday(and the Hawaii stores dont have squat for parts) they are the incandesent not the Diode type.
Good Luck
Roland AH6RR

--- In TS-520_820_530_830@yahoogroups.com, Jonathan ORear <jonkd4mpw@...> wrote:
>
> Thank you Dick and Aaron. I e-mailed K4EAA on more than 1 ocassion but never received a response either time. Can you give me another web site to find this bulb for the Kenwood TS-830S? Thank you friend
>
>
> JONATHAN B. O'REAR
> AMATEUR/HAM RADIO COMMUNICATIONS/SHORTWAVE RADIO/TECHNICIAN CLASS/KD4MPW
> EMERGENCY MEDICAL TECHNICIAN-BASIC LICENSED
> NATIONAL WEATHER SERVICE-SEVERE WEATHER STORM SPOTTER/ADVANCED LEVEL
> FIREFIGHTER
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> _____
> From: Dick Merryman <dicko@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wed, October 7, 2009 11:32:00 PM
> Subject: RE: [TS-520_820_530_830] Meter/Needle Light Bulb For Kenwood TS-830S
>
>
> Jonathan-
>
> Lamps are readily available on www.k4eaa.com . Open the top cover and
> you'll see that replacement is a piece of cake. Also, read K4EAA's site for
> an explanation of the TS-830S Gold.
>
> -Dick-
> N3XRU
>
> _____
>
> From: TS-520_820_530_ 830@yahoogroups. com
> [mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of Jonathan ORear
> Sent: Wednesday, October 07, 2009 8:17 PM

> To: TS-520_820_530_ 830@yahoogroups. com
> Subject: [TS-520_820_ 530_830] Meter/Needle Light Bulb For Kenwood TS-830S
>
> Hello friends. My name is Jonathan B. O'Rear KD4MPW. I am in north centrla,
> Alabama. Thank you for approving me to the group. I am the proud, new owner
> of a Kenwood TS-830S. The only problem I see is that the meter/needle light
> is out and I would like to find a replacement bulb and some install hints
> would be helpful as well. Also, how do I know if my radio is the gold label
> model? The name stamp under the dial knob has the letters/numbers Kenwood
> TS-830S in gold but the large dial knob has a silver center. Any information
> is appreciated and God Bless. 73's
>
> Jonathan B. O'Rear KD4MPW Meridianville, Alabama
>
> JONATHAN B. O'REAR
> AMATEUR/HAM RADIO COMMUNICATIONS/ SHORTWAVE RADIO/TECHNICIAN CLASS/KD4MPW
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> FIREFIGHTER
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> [Non-text portions of this message have been removed]
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22822. Re: Kenwood TS-830S MARS Question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-10 16:32:45 UTC
From: w5rkl
Topic: 22809 Message: 22822

--- In TS-520_820_530_830@yahoogroups.com, "Jonathan B. O'Rear" <jonkd4mpw@...> wrote:
>
> May have to purchase the vfo 240?

Are you asking if purchasing the VFO-240 will extend the operating frequency of the TS-830? If so then the answer is "No".

The VFO-240 operating frequency range is the same as the TS-830s internal VFO.

73's
Mike W5RKL

> Jonathan B. O'Rear / AT&T Blackberry Bold 9000
>
> -----Original Message-----
> From: John Davidson <k8jd@...>
> Date: Sat, 10 Oct 2009 05:08:26
> To: <TS-520_820_530_830@yahoogroups.com>
> Subject: Re: [TS-520_820_530_830] Kenwood TS-830S MARS Question
>
> I know the TS52o has 4 xtal positions for out of band fixed freq operation but the 530/830 have a totally different scheme for generating signals.
>
> --- On Sat, 10/10/09, Dave ve3wej <ve3wej@...> wrote:
>
>
> From: Dave ve3wej <ve3wej@...>
> Subject: Re: [TS-520_820_530_830] Kenwood TS-830S MARS Question
> To: TS-520_820_530_830@yahoogroups.com
> Date: Saturday, October 10, 2009, 12:27 AM
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> doesn't the radio have to be general coverage receive to be able to transmit
> there as well. I don't believe the hybrid were general at all...
>
> ------------ --------- --------- --------- --------- --
> From: "jonkd4mpw" <jonkd4mpw@yahoo. com>
> Sent: Friday, October 09, 2009 11:43 PM
> To: <TS-520_820_530_ 830@yahoogroups. com>
> Subject: [TS-520_820_ 530_830] Kenwood TS-830S MARS Question
>

> > Hello friends. I am the proud new owner of a Kenwood TS-830S. I was
> > wondering if this radio is able to transmit on MARS frequencies. If not,
> > is there a modification available to make the radio to where it can
> > transmit on MARS frequencies. Please let me know and yhank you.
> >
> > Jonathan B. O'Rear
> >
> > KD4MPW
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> >
> > ------------ --------- --------- ------
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> > Yahoo! Groups Links
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22823. Re: [TS-520_820_530_830] Re: Meter/Needle Light Bulb For Kenwood TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-10 16:37:14 UTC
From: Jonathan B. O'Rear
Topic: 22783 Message: 22823

Thank you Roland. Can you give me the Radio Shack part number for this lamp for kenwood ts830s?
Jonathan B. O'Rear / AT&T Blackberry Bold 9000

-----Original Message-----
From: "ah6rr1" <ah6rr@...>
Date: Sat, 10 Oct 2009 16:17:37
To: <TS-520_820_530_830@yahoogroups.com>
Subject: [TS-520_820_530_830] Re: Meter/Needle Light Bulb For Kenwood TS-830S

Aloha Jonathan,
I emailed Ken and go a responce in less than a hour. Check your anti-spam. Also Radio Shack sells these bulbs I saw some yesterday(and the Hawaii stores dont have squat for parts) they are the incandesent not the Diode type.
Good Luck
Roland AH6RR

--- In TS-520_820_530_830@yahoogroups.com, Jonathan ORear <jonkd4mpw@...> wrote:
>
> Thank you Dick and Aaron. I e-mailed K4EAA on more than 1 ocassion but never received a response either time. Can you give me another web site to find this bulb for the Kenwood TS-830S? Thank you friend
>
>
> JONATHAN B. O'REAR
> AMATEUR/HAM RADIO COMMUNICATIONS/SHORTWAVE RADIO/TECHNICIAN CLASS/KD4MPW
> EMERGENCY MEDICAL TECHNICIAN-BASIC LICENSED
> NATIONAL WEATHER SERVICE-SEVERE WEATHER STORM SPOTTER/ADVANCED LEVEL
> FIREFIGHTER
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>_____
> From: Dick Merryman <dicko@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wed, October 7, 2009 11:32:00 PM
> Subject: RE: [TS-520_820_530_830] Meter/Needle Light Bulb For Kenwood TS-830S
>
>
> Jonathan-
>
> Lamps are readily available on www.k4eaa.com . Open the top cover and

> you'll see that replacement is a piece of cake. Also, read K4EAA's site for
> an explanation of the TS-830S Gold.
>
> -Dick-
> N3XRU
>
>_____
>
> From: TS-520_820_530_ 830@yahoogroups. com
> [mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of Jonathan ORear
> Sent: Wednesday, October 07, 2009 8:17 PM
> To: TS-520_820_530_ 830@yahoogroups. com
> Subject: [TS-520_820_ 530_830] Meter/Needle Light Bulb For Kenwood TS-830S
>
> Hello friends. My name is Jonathan B. O'Rear KD4MPW. I am in north centrla,
> Alabama. Thank you for approving me to the group. I am the proud, new owner
> of a Kenwood TS-830S. The only problem I see is that the meter/needle light
> is out and I would like to find a replacement bulb and some install hints
> would be helpful as well. Also, how do I know if my radio is the gold label
> model? The name stamp under the dial knob has the letters/numbers Kenwood
> TS-830S in gold but the large dial knob has a silver center. Any information
> is appreciated and God Bless. 73's
>
> Jonathan B. O'Rear KD4MPW Meridianville, Alabama
>
> JONATHAN B. O'REAR
> AMATEUR/HAM RADIO COMMUNICATIONS/ SHORTWAVE RADIO/TECHNICIAN CLASS/KD4MPW
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> FIREFIGHTER
>
>_____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail. <http://mail. yahoo.com> yahoo.com
>
> [Non-text portions of this message have been removed]
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> Do You Yahoo!?
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> http://mail.yahoo.com
>
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22824. Re: [TS-520_820_530_830] Kenwood TS-830S MARS Question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-10 18:05:19 UTC
From: martin
Topic: 22809 Message: 22824

Hi Johnathon. The radio should transmit past the band edges. It uses an electrical/mechanical VFO (it is NOT PLL systhesized)The digital display merely displays the frequency. I believe that the radio should be able to be used on the MARS frequencies, as these are only a few Khz outside the U.S. Amateur Band limits.

I don't have the model number for the light bulbs that you are looking for, but any small 12V bulbs will work. Radio Shack sells a set of three 12V bulbs that are red, yellow, and green that will work. If you don't want colored bulbs, just wipe off the color with a bit of nail polish remover on a cloth or a cotton ball.

While these radios can be modified to operate on other frequencies, it is not recommended, and probably is not legal to transmit on most frequencies outside the U.S. Amateur bands with (The Mars frequencies are an exception if you are a Mars operator).

TTYL

jonkd4mpw wrote:
> Hello friends. I am the proud new owner of a Kenwood TS-830S. I
> was wondering if this radio is able to transmit on MARS
> frequencies. If not, is there a modification available to make the
> radio to where it can transmit on MARS frequencies. Please let me
> know and yhank you.
>
> Jonathan B. O'Rear
>
> KD4MPW
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at http://www.defectivebydesign.org/what_is_drm"

22825. Re: Meter/Needle Light Bulb For Kenwood TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-10 20:14:08 UTC
From: w5rkl
Topic: 22783 Message: 22825

The Radio Shack part number for the 12 volt mini lamps is:

272-1141

"Mini LAMP"

Price: $1.95 (one lamp)

If your local Radio Shack does not have them in stock then have the sales person order them for you. Radio Shack can have them shipped directly to your house. You pay up front first. I bought 10 of them and the lamps arrived within 5 days of the initial order. I installed them in my 820 (3 lamps) and none of the lamps have failed over the past 3 years.

http://www.radioshack.com/search/index.jsp?kwCatId=&kw=272-1141&origkw=272-1141&sr=1

The RS lamp leads are color coded RED and WHITE. The lamps are NOT polarity conscience nor does it matte whether the voltage is AC or DC. There is no requirement for a series resistor either. Simply cut the old lamps out and splice the RS lamps in place of the original burned out Kenwood lamps.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Jonathan B. O'Rear" <jonkd4mpw@...> wrote:
>
> Thank you Roland. Can you give me the Radio Shack part number for this lamp for kenwood ts830s?
> Jonathan B. O'Rear / AT&T Blackberry Bold 9000
>
> -----Original Message-----
> From: "ah6rr1" <ah6rr@...>
> Date: Sat, 10 Oct 2009 16:17:37
> To: <TS-520_820_530_830@yahoogroups.com>
> Subject: [TS-520_820_530_830] Re: Meter/Needle Light Bulb For Kenwood TS-830S
>
> Aloha Jonathan,
> I emailed Ken and go a responce in less than a hour. Check your anti-spam. Also Radio Shack sells these bulbs I saw some yesterday(and the Hawaii stores dont have squat for parts) they are the incandesent not the Diode type.
> Good Luck
> Roland AH6RR
>
>
> --- In TS-520_820_530_830@yahoogroups.com, Jonathan ORear <jonkd4mpw@> wrote:
> >
> > Thank you Dick and Aaron. I e-mailed K4EAA on more than 1 ocassion but never received a response either time. Can you give me another web site to find this bulb for the Kenwood

TS-830S? Thank you friend
> >
> >
> > JONATHAN B. O'REAR
> > AMATEUR/HAM RADIO COMMUNICATIONS/SHORTWAVE RADIO/TECHNICIAN CLASS/KD4MPW
> > EMERGENCY MEDICAL TECHNICIAN-BASIC LICENSED
> > NATIONAL WEATHER SERVICE-SEVERE WEATHER STORM SPOTTER/ADVANCED LEVEL
> > FIREFIGHTER
> >
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> >
> >_________________________________
> > From: Dick Merryman <dicko@>
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Wed, October 7, 2009 11:32:00 PM
> > Subject: RE: [TS-520_820_530_830] Meter/Needle Light Bulb For Kenwood TS-830S
> >
> >
> > Jonathan-
> >
> > Lamps are readily available on www.k4eaa.com . Open the top cover and
> > you'll see that replacement is a piece of cake. Also, read K4EAA's site for
> > an explanation of the TS-830S Gold.
> >
> > -Dick-
> > N3XRU
> >
> >_____
> >
> > From: TS-520_820_530_ 830@yahoogroups. com
> > [mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of Jonathan ORear
> > Sent: Wednesday, October 07, 2009 8:17 PM
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Subject: [TS-520_820_ 530_830] Meter/Needle Light Bulb For Kenwood TS-830S
> >
> > Hello friends. My name is Jonathan B. O'Rear KD4MPW. I am in north centrla,
> > Alabama. Thank you for approving me to the group. I am the proud, new owner
> > of a Kenwood TS-830S. The only problem I see is that the meter/needle light
> > is out and I would like to find a replacement bulb and some install hints
> > would be helpful as well. Also, how do I know if my radio is the gold label
> > model? The name stamp under the dial knob has the letters/numbers Kenwood
> > TS-830S in gold but the large dial knob has a silver center. Any information
> > is appreciated and God Bless. 73's
> >
> > Jonathan B. O'Rear KD4MPW Meridianville, Alabama
> >
> > JONATHAN B. O'REAR
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> >
> >_____
> > Do You Yahoo!?
> > Tired of spam? Yahoo! Mail has the best spam protection around
> > http://mail. <http://mail. yahoo.com> yahoo.com
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22826. Re: [TS-520_820_530_830] Re: Meter/Needle Light Bulb For Kenwood TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-10 20:29:16 UTC
From: Dave ve3wej
Topic: 22783 Message: 22826

also available in canada at The Source (formerly radio shack canada)
http://www.thesource.ca/estore/product.aspx?language=en-CA&product=2721141

From: "w5rkl" <w5rkl@...>
Sent: Saturday, October 10, 2009 4:14 PM
To: <TS-520_820_530_830@yahoogroups.com>
Subject: [TS-520_820_530_830] Re: Meter/Needle Light Bulb For Kenwood
TS-830S

> The Radio Shack part number for the 12 volt mini lamps is:
>
> 272-1141
>
> "Mini LAMP"
>
> Price: $1.95 (one lamp)
>
> If your local Radio Shack does not have them in stock then have the sales
> person order them for you. Radio Shack can have them shipped directly to
> your house. You pay up front first. I bought 10 of them and the lamps
> arrived within 5 days of the initial order. I installed them in my 820 (3
> lamps) and none of the lamps have failed over the past 3 years.
>
> http://www.radioshack.com/search/index.jsp?kwCatId=&kw=272-1141&origkw=272-1141&sr=1
>
> The RS lamp leads are color coded RED and WHITE. The lamps are NOT
> polarity conscience nor does it matte whether the voltage is AC or DC.
> There is no requirement for a series resistor either. Simply cut the old
> lamps out and splice the RS lamps in place of the original burned out
> Kenwood lamps.
>
>
>
> 73's
> Mike W5RKL
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Jonathan B. O'Rear"
> <jonkd4mpw@...> wrote:
>>
>> Thank you Roland. Can you give me the Radio Shack part number for this
>> lamp for kenwood ts830s?

>> Jonathan B. O'Rear / AT&T Blackberry Bold 9000
>>
>> -----Original Message-----
>> From: "ah6rr1" <ah6rr@...>
>> Date: Sat, 10 Oct 2009 16:17:37
>> To: <TS-520_820_530_830@yahoogroups.com>
>> Subject: [TS-520_820_530_830] Re: Meter/Needle Light Bulb For Kenwood
>> TS-830S
>>
>> Aloha Jonathan,
>> I emailed Ken and go a responce in less than a hour. Check your
>> anti-spam. Also Radio Shack sells these bulbs I saw some yesterday(and
>> the Hawaii stores dont have squat for parts) they are the incandesent not
>> the Diode type.
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>> Roland AH6RR
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>> > AMATEUR/HAM RADIO COMMUNICATIONS/SHORTWAVE RADIO/TECHNICIAN
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>> > EMERGENCY MEDICAL TECHNICIAN-BASIC LICENSED
>> > NATIONAL WEATHER SERVICE-SEVERE WEATHER STORM SPOTTER/ADVANCED LEVEL
>> > FIREFIGHTER
>> >
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>> >
>> >_________________________________
>> > From: Dick Merryman <dicko@>
>> > To: TS-520_820_530_830@yahoogroups.com
>> > Sent: Wed, October 7, 2009 11:32:00 PM
>> > Subject: RE: [TS-520_820_530_830] Meter/Needle Light Bulb For Kenwood
>> > TS-830S
>> >
>> >
>> > Jonathan-
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>> >
>> > -Dick-
>> > N3XRU
>> >
>> >_____
>> >
>> > From: TS-520_820_530_ 830@yahoogroups. com
>> > [mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of Jonathan
>> > ORear
>> > Sent: Wednesday, October 07, 2009 8:17 PM
>> > To: TS-520_820_530_ 830@yahoogroups. com
>> > Subject: [TS-520_820_ 530_830] Meter/Needle Light Bulb For Kenwood
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>> >_____
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> Yahoo! Groups Links
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22827. Re: VFO-520 Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-10 22:45:37 UTC
From: n6wk_skcc3
Topic: 22651 Message: 22827

I actually had enough top make up 5 cables.
4 have been sold. I have just one left for the 520/820 VFO.
They are 30" long.
Please Email me off list if interested in this Last one.
The Cable is $25.00 plus $4.80 for priority mail shipping.
Thanks,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "n6wk_skcc3" <n6wk@...> wrote:
>
> Hi Rick,
> Did you ever get a cable?
> I have enough connectors to make up 3 cables. These are very nice connectors with little screw on covers. Very nice Quality.
> I will sell each cable for $25.00 plus shipping. If you are still interested, please let me know. I will make each cable 24" in length.
>
> 73,
> Gordon
> N6WK
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "VE3FMC" <ve3fmc@> wrote:
> >
> > Hello Everyone
> >
> > I am in need of the cable that connects the VFO-520 to a TS-520. Does anyone have one they would sell?
> >
> > Or tell me where I might be able to purchase one?
> >
> > Thanks
> > 73, Rick VE3FMC
> >
>

22828. Re: VFO-520 Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-11 02:17:32 UTC
From: n6wk_skcc3
Topic: 22651 Message: 22828

Last Cable has been SOLD.
Thanks to all.
I may make more cables up in a couple of weeks if there is interest.

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "n6wk_skcc3" <n6wk@...> wrote:
>
>
> I actually had enough top make up 5 cables.
> 4 have been sold. I have just one left for the 520/820 VFO.
> They are 30" long.
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> The Cable is $25.00 plus $4.80 for priority mail shipping.
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> Gordon
> N6WK
>
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> > Hi Rick,
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> > I have enough connectors to make up 3 cables. These are very nice connectors with
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> > I will sell each cable for $25.00 plus shipping. If you are still interested, please
let me know. I will make each cable 24" in length.
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> > 73,
> > Gordon
> > N6WK
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "VE3FMC" <ve3fmc@> wrote:
> > >
> > > Hello Everyone
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they would sell?
> > >
> > > Or tell me where I might be able to purchase one?
> > >
> > > Thanks

> > > 73, Rick VE3FMC
> > >
> >
>

22829. Re: [TS-520_820_530_830] Kenwood TS-830S MARS Question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-11 02:16:33 UTC
From: Jonathan ORear
Topic: 22809 Message: 22829

Thank you sir. Can you tell me what the external VFO is for? I notice that it is an optional accessory for the Kenwood TS-830S. Thank you again friend.

JONATHAN B. O'REAR
AMATEUR/HAM RADIO COMMUNICATIONS/SHORTWAVE RADIO/TECHNICIAN CLASS/KD4MPW
EMERGENCY MEDICAL TECHNICIAN-BASIC LICENSED
NATIONAL WEATHER SERVICE-SEVERE WEATHER STORM SPOTTER/ADVANCED LEVEL
FIREFIGHTER

From: martin <kb0hae@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sat, October 10, 2009 1:05:19 PM
Subject: Re: [TS-520_820_530_830] Kenwood TS-830S MARS Question

Hi Johnathon. The radio should transmit past the band edges. It uses an electrical/mechanic al VFO (it is NOT PLL systhesized) The digital display merely displays the frequency. I believe that the radio should be able to be used on the MARS frequencies, as these are only a few Khz outside the U.S. Amateur Band limits.

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While these radios can be modified to operate on other frequencies, it is not recommended, and probably is not legal to transmit on most frequencies outside the U.S. Amateur bands with (The Mars frequencies are an exception if you are a Mars operator).

TTYL

jonkd4mpw wrote:
> Hello friends. I am the proud new owner of a Kenwood TS-830S. I
> was wondering if this radio is able to transmit on MARS
> frequencies. If not, is there a modification available to make the
> radio to where it can transmit on MARS frequencies. Please let me
> know and yhank you.
>
> Jonathan B. O'Rear
>
> KD4MPW
>
>

--
CUL8R

KBOHAE kb0hae@mchsi. com Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/ index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectiv ebydesign. org/what_ is_drm"

[Non-text portions of this message have been removed]

22830. Relay

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-11 03:18:06 UTC
From: Ruben Echevarria
Topic: 22830 Message: 22830

Gordon I found the relay !!!
#351-4401-05 Still need it?
 Ruben Echevarria KA2HHB
070 Club#861 30MDG#1148
10-10#33308

[Non-text portions of this message have been removed]

22831. Can The Kenwood TS-830S Transmit And Receive On MARS?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-11 03:54:40 UTC
From: jonkd4mpw
Topic: 22831 Message: 22831

Hello again friends. I asked earlier if the Kenwood TS-830S could transmit and receive on MARS. I got this following article from:

http://www.df1ud.de/Englisch/Oldtimer_e/Kenwood_TS-830_e/kenwood_ts-830_e.html

It states the following: The TS-830S VFO covers more than 50 kHz above and below each 500 kHz band. The optional VFO-230 external digital VFO covers about 100 kHz above and below each band, for MARS and other applications.

I think this also applies to the VFO 240 which can be seen by clicking this link:

http://images.google.com/imgres?imgurl=http://www.universal-radio.com/CATALOG/hamhf/vfo240.jpg&imgrefurl=http://www.universal-radio.com/CATALOG/hamhf/vfo240.html&usg=__j2KQaASFFUnmBQB0LIYV7ZBgUNU=&h=251&w=266&sz=30&hl=en&start=1&um=1&tbnid=OTRrBZkpSiKAOM:&tbnh=107&tbnw=113&prev=/images%3Fq%3Dkenwood%2Bvfo%2B240%26ndsp%3D20%26hl%3Den%26client%3Dfirefox-a%26rls%3Dorg.mozilla:en-US:official%26sa%3DN%26um%3D1

Please let me know if this is possible and thank you.

22832. Re: [TS-520_820_530_830] Re: VFO-520 Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-11 14:12:33 UTC
From: ken bolin
Topic: 22651 Message: 22832

May I ask what is the name/nomenclature of that connector?
Ken

--- On Sat, 10/10/09, n6wk_skcc3 <n6wk@...> wrote:

From: n6wk_skcc3 <n6wk@n6wk.com>
Subject: [TS-520_820_530_830] Re: VFO-520 Cable
To: TS-520_820_530_830@yahoogroups.com
Date: Saturday, October 10, 2009, 3:45 PM

I actually had enough top make up 5 cables.
4 have been sold. I have just one left for the 520/820 VFO.
They are 30" long.
Please Email me off list if interested in this Last one.
The Cable is $25.00 plus $4.80 for priority mail shipping.
Thanks,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "n6wk_skcc3" <n6wk@...> wrote:
>
> Hi Rick,
> Did you ever get a cable?
> I have enough connectors to make up 3 cables. These are very nice connectors with little screw on covers. Very nice Quality.
> I will sell each cable for $25.00 plus shipping. If you are still interested, please let me know. I will make each cable 24" in length.
>
> 73,
> Gordon
> N6WK
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "VE3FMC" <ve3fmc@> wrote:
> >
> > Hello Everyone
> >
> > I am in need of the cable that connects the VFO-520 to a TS-520. Does anyone have one they would sell?
> >
> > Or tell me where I might be able to purchase one?
> >
> > Thanks
> > 73, Rick VE3FMC
> >

>

Yahoo! Groups Links

[Non-text portions of this message have been removed]

22833. Re: Can The Kenwood TS-830S Transmit And Receive On MARS?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-11 05:05:56 UTC
From: Allan
Topic: 22831 Message: 22833

Just checked my TS830 on 20 meters. Internal VFO 13.937.9Mhz to 14.587.8Mhz. On the VFO-230 13.900Mhz to 14.599.9Mhz.
Hope this helps in your Quest.
Allan.

--- In TS-520_820_530_830@yahoogroups.com, "jonkd4mpw" <jonkd4mpw@...> wrote:
>
> Hello again friends. I asked earlier if the Kenwood TS-830S could transmit and receive on MARS. I got this following article from:
>
> http://www.df1ud.de/Englisch/Oldtimer_e/Kenwood_TS-830_e/kenwood_ts-830_e.html
>
> It states the following: The TS-830S VFO covers more than 50 kHz above and below each 500 kHz band. The optional VFO-230 external digital VFO covers about 100 kHz above and below each band, for MARS and other applications.
>
> I think this also applies to the VFO 240 which can be seen by clicking this link:
>
> http://images.google.com/imgres?imgurl=http://www.universal-radio.com/CATALOG/hamhf/vfo240.jpg&imgrefurl=http://www.universal-radio.com/CATALOG/hamhf/vfo240.html&usg=__j2KQaASFFUnmBQB0LIYV7ZBgUNU=&h=251&w=266&sz=30&hl=en&start=1&um=1&tbnid=OTRrBZkpSiKAOM:&tbnh=107&tbnw=113&prev=/images%3Fq%3Dkenwood%2Bvfo%2B240%26ndsp%3D20%26hl%3Den%26client%3Dfirefox-a%26rls%3Dorg.mozilla:en-US:official%26sa%3DN%26um%3D1
>
> Please let me know if this is possible and thank you.
>

22834. Re: [TS-520_820_530_830] Re: VFO-520 Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-11 16:55:43 UTC
From: n6wk@n6wk.com
Topic: 22651 Message: 22834

Hi Ken,
It is the Connecting Cable that goes between the radio and the external
VFO.
I have been making them for the 520/820 radios and also the 530/830 radios.
The Original ones are impossible to find, too short and too stiff.
Hope that explains it.
73,
Gordon
N6WK

ken bolin wrote:
>
>
> May I ask what is the name/nomenclature of that connector?
> Ken
>
> --- On Sat, 10/10/09, n6wk_skcc3 <n6wk@...
> <mailto:n6wk%40n6wk.com>> wrote:
>
> From: n6wk_skcc3 <n6wk@... <mailto:n6wk%40n6wk.com>>
> Subject: [TS-520_820_530_830] Re: VFO-520 Cable
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Date: Saturday, October 10, 2009, 3:45 PM
>
> I actually had enough top make up 5 cables.
> 4 have been sold. I have just one left for the 520/820 VFO.
> They are 30" long.
> Please Email me off list if interested in this Last one.
> The Cable is $25.00 plus $4.80 for priority mail shipping.
> Thanks,
> Gordon
> N6WK
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "n6wk_skcc3" <n6wk@...>
> wrote:
> >
> > Hi Rick,
> > Did you ever get a cable?
> > I have enough connectors to make up 3 cables. These are very nice
> connectors with little screw on covers. Very nice Quality.
> > I will sell each cable for $25.00 plus shipping. If you are still
> interested, please let me know. I will make each cable 24" in length.
> >

> > 73,
> > Gordon
> > N6WK
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "VE3FMC" <ve3fmc@> wrote:
> > >
> > > Hello Everyone
> > >
> > > I am in need of the cable that connects the VFO-520 to a TS-520.
> Does anyone have one they would sell?
> > >
> > > Or tell me where I might be able to purchase one?
> > >
> > > Thanks
> > > 73, Rick VE3FMC
> > >
> >
>
> ------------------------------------
>
> Yahoo! Groups Links
>
> [Non-text portions of this message have been removed]
>
>
> Messages in this topic
> <http://groups.yahoo.com/group/TS-520_820_530_830/message/22651;_ylc=X3oDMTM2cmh2OGh2BF9
TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzIyODMyBHNlYwNmdHIEc2xrA
3Z0cGMEc3RpbWUDMTI1NTI3MDk2MgR0cGNJZAMyMjY1MQ-->
> (28) Reply (via web post)
> <http://groups.yahoo.com/group/TS-520_820_530_830/post;_ylc=X3oDMTJxczVnaHU3BF9TAzk3MzU5
NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzIyODMyBHNlYwNmdHIEc2xrA3JwbHkEc3
RpbWUDMTI1NTI3MDk2Mg--?act=reply&messageNum=22832>
> | Start a new topic
> <http://groups.yahoo.com/group/TS-520_820_530_830/post;_ylc=X3oDMTJlYTAwZW5rBF9TAzk3MzU5
NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA250cGMEc3RpbWUDMTI1NTI3MD
k2Mg-->
>
> Messages
> <http://groups.yahoo.com/group/TS-520_820_530_830/messages;_ylc=X3oDMTJlZXBxdWFtBF9TAzk3
MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA21zZ3MEc3RpbWUDMTI1NT
I3MDk2Mg-->
> | Files
> <http://groups.yahoo.com/group/TS-520_820_530_830/files;_ylc=X3oDMTJmbmRjMWpxBF9TAzk3MzU
5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA2ZpbGVzBHN0aW1lAzEyNTUyN
zA5NjI->
> | Photos

> <http://groups.yahoo.com/group/TS-520_820_530_830/photos;_ylc=X3oDMTJlbzg3Zm1oBF9TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA3Bob3QEc3RpbWUDMTI1NTI3MDk2Mg-->
> | Database
> <http://groups.yahoo.com/group/TS-520_820_530_830/database;_ylc=X3oDMTJjY25ocWQ5BF9TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA2RiBHN0aW1lAzEyNTUyNzA5NjI->
> | Members
> <http://groups.yahoo.com/group/TS-520_820_530_830/members;_ylc=X3oDMTJlcTRkNHRqBF9TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA21icnMEc3RpbWUDMTI1NTI3MDk2Mg-->
>
> Yahoo! Groups
> <http://groups.yahoo.com/;_ylc=X3oDMTJkNDJsczdvBF9TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA2dmcARzdGltZQMxMjU1MjcwOTYy>
>
> Change settings via the Web
> <http://groups.yahoo.com/group/TS-520_820_530_830/join;_ylc=X3oDMTJmY3RnZWkwBF9TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA3N0bmdzBHN0aW1lAzEyNTUyNzA5NjI->
> (Yahoo! ID required)
> Change settings via email: Switch delivery to Daily Digest
> <mailto:TS-520_820_530_830-digest@yahoogroups.com?subject=Email%20Delivery:%20Digest>
> | Switch format to Traditional
> <mailto:TS-520_820_530_830-traditional@yahoogroups.com?subject=Change%20Delivery%20Format:%20Traditional>
>
> Visit Your Group
> <http://groups.yahoo.com/group/TS-520_820_530_830;_ylc=X3oDMTJkNDJrMXRkBF9TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA2hwZgRzdGltZQMxMjU1MjcwOTYy>
> | Yahoo! Groups Terms of Use <http://docs.yahoo.com/info/terms/> |
> Unsubscribe
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=>
> Recent Activity
>
> *
> 10
> New Members
> <http://groups.yahoo.com/group/TS-520_820_530_830/members;_ylc=X3oDMTJmNnN0YTVmBF9TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwN2dGwEc2xrA3ZtYnJzBHN0aW1lAzEyNTUyNzA5NjI->
>
> Visit Your Group
> <http://groups.yahoo.com/group/TS-520_820_530_830;_ylc=X3oDMTJlOGRrZDJiBF9TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwN2dGwEc2xrA3ZnaHAEc3RpbWUDMTI1NTI3MDk2Mg-->
>
> Give Back
>
> Yahoo! for Good

> <http://us.lrd.yahoo.com/_ylc=X3oDMTJtZXBoNHBxBF9TAzk3MzU5NzE0BF9wAzEEZ3JwSWQDNzUyNTAyMQRncnBzcElkAzE3MDUwNjMxMDgEc2VjA25jbW9kBHNsawNicmFuZARzdGltZQMxMjU1MjcwOTYy;_ylg=1/SIG=11314uv3k/**http%3A//brand.yahoo.com/forgood>
>
> Get inspired
>
> by a good cause.
>
> Y! Toolbar
>
> Get it Free!
> <http://us.lrd.yahoo.com/_ylc=X3oDMTJvZTQ1aHFtBF9TAzk3MzU5NzE0BF9wAzIEZ3JwSWQDNzUyNTAyMQRncnBzcElkAzE3MDUwNjMxMDgEc2VjA25jbW9kBHNsawN0b29sYmFyBHN0aW1lAzEyNTUyNzA5NjI-;_ylg=1/SIG=11c6dvmk9/**http%3A//toolbar.yahoo.com/%3F.cpdl=ygrps>
>
> easy 1-click access
>
> to your groups.
>
> Yahoo! Groups
>
> Start a group
> <http://groups.yahoo.com/start;_ylc=X3oDMTJvMW9lNnZkBF9TAzk3MzU5NzE0BF9wAzMEZ3JwSWQDNzUyNTAyMQRncnBzcElkAzE3MDUwNjMxMDgEc2VjA25jbW9kBHNsawNncm91cHMyBHN0aW1lAzEyNTUyNzA5NjI->
>
> in 3 easy steps.
>
> Connect with others.
>

22835. Re: [TS-520_820_530_830] Relay

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-11 17:04:06 UTC
From: n6wk@n6wk.com
Topic: 22830 Message: 22835

Hi Ruben,
Thanks, but I already found a Cover for the one I had.
I appreciate your efforts to help me out.
73,
Gordon
N6WK

Ruben Echevarria wrote:
>
>
> Gordon I found the relay !!!
> #351-4401-05 Still need it?
> Ruben Echevarria KA2HHB
> 070 Club#861 30MDG#1148
> 10-10#33308
>
> [Non-text portions of this message have been removed]
>
>

22836. Re: [TS-520_820_530_830] Relay

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-11 17:06:56 UTC
From: Ruben Echevarria
Topic: 22830 Message: 22836

I'll send it out to you anyway... on me....
It'll never see any use here .....
 Ruben Echevarria KA2HHB
070 Club#861 30MDG#1148
10-10#33308

From: "n6wk@..." <n6wk@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sun, October 11, 2009 1:04:06 PM
Subject: Re: [TS-520_820_530_830] Relay

Hi Ruben,
Thanks, but I already found a Cover for the one I had.
I appreciate your efforts to help me out.
73,
Gordon
N6WK

Ruben Echevarria wrote:
>
>
> Gordon I found the relay !!!
> #351-4401-05 Still need it?
> Ruben Echevarria KA2HHB
> 070 Club#861 30MDG#1148
> 10-10#33308
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

22837. Re: [TS-520_820_530_830] Relay

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-11 17:11:57 UTC
From: n6wk@n6wk.com
Topic: 22830 Message: 22837

Thanks Ruben,
I am sure I'll find a nice home for it in another 830.
I appreciate your generosity.
Hope you are feeling better.
73,
Gordon

Ruben Echevarria wrote:
>
>
> I'll send it out to you anyway... on me....
> It'll never see any use here .....
> Ruben Echevarria KA2HHB
> 070 Club#861 30MDG#1148
> 10-10#33308
>
> _____
> From: "n6wk@... <mailto:n6wk%40n6wk.com>" <n6wk@...
> <mailto:n6wk%40n6wk.com>>
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Sun, October 11, 2009 1:04:06 PM
> Subject: Re: [TS-520_820_530_830] Relay
>
>
> Hi Ruben,
> Thanks, but I already found a Cover for the one I had.
> I appreciate your efforts to help me out.
> 73,
> Gordon
> N6WK
>
> Ruben Echevarria wrote:
> >
> >
> > Gordon I found the relay !!!
> > #351-4401-05 Still need it?
> > Ruben Echevarria KA2HHB
> > 070 Club#861 30MDG#1148
> > 10-10#33308
> >
> > [Non-text portions of this message have been removed]
> >
> >
>

22838. Re: [TS-520_820_530_830] Relay

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-11 17:24:49 UTC
From: Ruben Echevarria
Topic: 22830 Message: 22838

My pleasure Gordon .... all the best 73
(I'm doing better)
 Ruben Echevarria KA2HHB
070 Club#861 30MDG#1148
10-10#33308

From: "n6wk@..." <n6wk@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sun, October 11, 2009 1:11:57 PM
Subject: Re: [TS-520_820_530_830] Relay

Thanks Ruben,
I am sure I'll find a nice home for it in another 830.
I appreciate your generosity.
Hope you are feeling better.
73,
Gordon

Ruben Echevarria wrote:
>
>
> I'll send it out to you anyway... on me....
> It'll never see any use here .....
> Ruben Echevarria KA2HHB
> 070 Club#861 30MDG#1148
> 10-10#33308
>
> ---
> From: "n6wk@... <mailto:n6wk% 40n6wk.com> " <n6wk@...
> <mailto:n6wk% 40n6wk.com> >
> To: TS-520_820_530_ 830@yahoogroups. com
> <mailto:TS-520_ 820_530_830% 40yahoogroups. com>
> Sent: Sun, October 11, 2009 1:04:06 PM
> Subject: Re: [TS-520_820_ 530_830] Relay
>
>
> Hi Ruben,
> Thanks, but I already found a Cover for the one I had.
> I appreciate your efforts to help me out.
> 73,
> Gordon
> N6WK
>
> Ruben Echevarria wrote:
> >

> >
> > Gordon I found the relay !!!
> > #351-4401-05 Still need it?
> > Ruben Echevarria KA2HHB
> > 070 Club#861 30MDG#1148
> > 10-10#33308
> >
> > [Non-text portions of this message have been removed]
> >
> >
>

[Non-text portions of this message have been removed]

22839. Re: [TS-520_820_530_830] Kenwood TS-830S MARS Question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-11 17:51:17 UTC
From: martin
Topic: 22809 Message: 22839

Hi Johnathon. The external VFO is usefull for a couple of things. Some DX stations work split frequencies. That is that they transmit and receive on different frequencies. With the external VFO, you can work these stations. It is also handy if you want to be able to quickly switch between two frequencies on the same band.

Many Hams never need or want an external VFO. The only thing that it is really needed for is to work split frequencies as mentioned above.

TTYL

Jonathan ORear wrote:
> Thank you sir. Can you tell me what the external VFO is for? I
> notice that it is an optional accessory for the Kenwood TS-830S.
> Thank you again friend.
>
>
> JONATHAN B. O'REAR AMATEUR/HAM RADIO COMMUNICATIONS/SHORTWAVE
> RADIO/TECHNICIAN CLASS/KD4MPW EMERGENCY MEDICAL TECHNICIAN-BASIC
> LICENSED NATIONAL WEATHER SERVICE-SEVERE WEATHER STORM
> SPOTTER/ADVANCED LEVEL FIREFIGHTER
>
>
>
>
>
> _____ From: martin <kb0hae@...>
> To: TS-520_820_530_830@yahoogroups.com Sent: Sat, October 10, 2009
> 1:05:19 PM Subject: Re: [TS-520_820_530_830] Kenwood TS-830S MARS
> Question
>
>
> Hi Johnathon. The radio should transmit past the band edges. It
> uses an electrical/mechanic al VFO (it is NOT PLL systhesized) The
> digital display merely displays the frequency. I believe that the
> radio should be able to be used on the MARS frequencies, as these
> are only a few Khz outside the U.S. Amateur Band limits.
>
> I don't have the model number for the light bulbs that you are
> looking for, but any small 12V bulbs will work. Radio Shack sells
> a set of three 12V bulbs that are red, yellow, and green that will
> work. If you don't want colored bulbs, just wipe off the color
> with a bit of nail polish remover on a cloth or a cotton ball.
>
> While these radios can be modified to operate on other frequencies,
> it is not recommended, and probably is not legal to transmit on

> most frequencies outside the U.S. Amateur bands with (The Mars
> frequencies are an exception if you are a Mars operator).
>
> TTYL
>
> jonkd4mpw wrote:
>> Hello friends. I am the proud new owner of a Kenwood TS-830S. I
>> was wondering if this radio is able to transmit on MARS
>> frequencies. If not, is there a modification available to make
>> the radio to where it can transmit on MARS frequencies. Please
>> let me know and yhank you.
>>
>> Jonathan B. O'Rear
>>
>> KD4MPW
>>
>>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

22840. Re: [TS-520_820_530_830] Kenwood TS-830S MARS Question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-11 18:24:52 UTC
From: John Davidson
Topic: 22809 Message: 22840

When i
--- On Sun, 10/11/09, martin <kb0hae@...> wrote:

From: martin kb0hae@...

Hi Johnathon. The external VFO is usefull for a couple of things.
Some DX stations work split frequencies. That is that they transmit
and receive on different frequencies. With the external VFO, you can
work these stations. It is also handy if you want to be able to
quickly switch between two frequencies on the same band.

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Get it Free!
easy 1-click access
to your groups.

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Start a group
in 3 easy steps.
Connect with others.
.

[Non-text portions of this message have been removed]

22841. Re: [TS-520_820_530_830] Kenwood VFO 530 Question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-11 18:32:39 UTC
From: John Davidson
Topic: 22809 Message: 22841

When I bought my TS520 on end of model close out discount, I was offered the VFO520 for just a few more dollars. Also they threw in a HyGain ten meter Yagi at reduced price..
I played around with the VFO to see if it worked but never really used it.
I finally sold it to another ham who saw it in my shack and wanted to work DX stations on 40 M SSB.
I still have the Yagi Up and work the band openings on ten M often.

--- On Sun, 10/11/09, martin <kb0hae@...> wrote:

From: martin <kb0hae@...>
Subject: Re: [TS-520_820_530_830] Kenwood TS-830S MARS Question
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, October 11, 2009, 1:51 PM

Hi Johnathon. The external VFO is usefull for a couple of things.
Some DX stations work split frequencies. That is that they transmit
and receive on different frequencies.
Many Hams never need or want an external VFO. The only thing that it
is really needed for is to work split frequencies as mentioned above.

TTYL> Thank you sir. Can you tell me what the external VFO is for? I
> notice that it is an optional accessory for the Kenwood TS-830S.
> Thank you again friend.
>
>

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[Non-text portions of this message have been removed]

22842. LOOKING FOR AN EXTERNAL VFO FRO MY 520S-----IF YOU HAVE ONE TO PART WITH PLEASE LET ME KNOW.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-11 19:33:27 UTC
From: OvaEasy
Topic: 22842 Message: 22842

THANK YOU IN ADVANCE FOR YOUR CONSIDERATION AND REPLY
BARRY.
*WB6LDL
PANAMA CITY FLORIDA
*

[Non-text portions of this message have been removed]

22843. 6146B question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-11 18:56:08 UTC
From: corner5
Topic: 22843 Message: 22843

Hi,
I now own a TS-820S that I have not put on the air yet, and I have some beginner questions about the tubes. I will soon be attending a local hamfest and I thought I could look for a second set of "backup" tubes.
My questions:
> How important is it that the 6146B pair be "matched"? I have read conflicting opinions on this. I have read that if you neutralize them correctly, matching does not matter (providing they are both of the same manufacturer). I do know that matching seems to be justification for asking for more money.
> How available are these tubes? Should I be obtaining two sets of backups because I may not find them in the future?
> Should I also be looking at getting a backup or two of the 12BY7A?
> Lastly, is there any way to guess the condition/life of tubes just by looking at them? Darkening, etc.?
Thanks! 73, ac0z, paul

[Non-text portions of this message have been removed]

22844. Re: [TS-520_820_530_830] LOOKING FOR AN EXTERNAL VFO FRO MY 520S-----IF YOU HAVE ONE TO PART WITH PLEASE LET ME KNOW.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-11 21:40:29 UTC
From: Dave Kalter
Topic: 22842 Message: 22844

Hi Berry, I have a very nice VFO-520S That I will part with. It does not really match my regular TS 520 GREAT CONDITION with manual. contact me off list.
73 Dave

--- On Sun, 10/11/09, OvaEasy <burro5944@...> wrote:

From: OvaEasy <burro5944@...>
Subject: [TS-520_820_530_830] LOOKING FOR AN EXTERNAL VFO FRO MY 520S-----IF YOU HAVE ONE TO PART WITH PLEASE LET ME KNOW.
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, October 11, 2009, 7:33 PM

THANK YOU IN ADVANCE FOR YOUR CONSIDERATION AND REPLY
BARRY.
*WB6LDL
PANAMA CITY FLORIDA
*

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

22845. Re: [TS-520_820_530_830] 6146B question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-11 21:48:07 UTC
From: Gordon JC Pearce
Topic: 22843 Message: 22845

On Sun, 2009-10-11 at 11:56 -0700, corner5 wrote:
> Hi,
> I now own a TS-820S that I have not put on the air yet, and I have some
> beginner questions about the tubes. I will soon be attending a local
> hamfest and I thought I could look for a second set of "backup" tubes.
> My questions:
> > How important is it that the 6146B pair be "matched"? I have read
> conflicting opinions on this. I have read that if you neutralize them
> correctly, matching does not matter (providing they are both of the same
> manufacturer). I do know that matching seems to be justification for
> asking for more money.

Not at all important. They're run in parallel. Neutralisation is
vitally important to getting the thing to work at all.

> > How available are these tubes? Should I be obtaining two sets of
> backups because I may not find them in the future?

I had no trouble getting NOS RCA 6146As, and they crop up all the time
on eBay. As far as I'm aware there are various Eastern European and
Chinese manufacturers still making them.

> > Should I also be looking at getting a backup or two of the 12BY7A?

Mine was perfectly okay but I changed it anyway just because I had a new
one. They don't live a particularly hard life, but it wouldn't hurt to
have a spare.

> > Lastly, is there any way to guess the condition/life of tubes just by
> looking at them? Darkening, etc.?

Not really, beyond loss of output. Obviously if the glass envelope is
damaged, it's for the bin. Gas leaking in makes them glow a pretty blue
colour.

Gordon MM0YEQ

22846. Re: [TS-520_820_530_830] Re: VFO-520 Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-11 22:26:44 UTC
From: ken bolin
Topic: 22651 Message: 22846

I was looking for the name/nomenclature of the connector on each end if it had ever been given one that is.
Ken

--- On Sun, 10/11/09, n6wk@... <n6wk@...> wrote:

From: n6wk@... <n6wk@...>
Subject: Re: [TS-520_820_530_830] Re: VFO-520 Cable
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, October 11, 2009, 9:55 AM

Hi Ken,
It is the Connecting Cable that goes between the radio and the external
VFO.
I have been making them for the 520/820 radios and also the 530/830 radios.
The Original ones are impossible to find, too short and too stiff.
Hope that explains it.
73,
Gordon
N6WK

ken bolin wrote:
>
>
> May I ask what is the name/nomenclature of that connector?
> Ken
>
> --- On Sat, 10/10/09, n6wk_skcc3 <n6wk@n6wk.com
> <mailto:n6wk%40n6wk.com>> wrote:
>
> From: n6wk_skcc3 <n6wk@n6wk.com <mailto:n6wk%40n6wk.com>>
> Subject: [TS-520_820_530_830] Re: VFO-520 Cable
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Date: Saturday, October 10, 2009, 3:45 PM
>
> I actually had enough top make up 5 cables.
> 4 have been sold. I have just one left for the 520/820 VFO.
> They are 30" long.
> Please Email me off list if interested in this Last one.
> The Cable is $25.00 plus $4.80 for priority mail shipping.
> Thanks,
> Gordon
> N6WK
>
> --- In TS-520_820_530_830@yahoogroups.com

> <mailto:TS-520_820_530_830%40yahoogroups.com>, "n6wk_skcc3" <n6wk@...>
> wrote:
> >
> > Hi Rick,
> > Did you ever get a cable?
> > I have enough connectors to make up 3 cables. These are very nice
> connectors with little screw on covers. Very nice Quality.
> > I will sell each cable for $25.00 plus shipping. If you are still
> interested, please let me know. I will make each cable 24" in length.
> >
> > 73,
> > Gordon
> > N6WK
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "VE3FMC" <ve3fmc@> wrote:
> > >
> > > Hello Everyone
> > >
> > > I am in need of the cable that connects the VFO-520 to a TS-520.
> Does anyone have one they would sell?
> > >
> > > Or tell me where I might be able to purchase one?
> > >
> > > Thanks
> > > 73, Rick VE3FMC
> > >
> > >
>
> ------------------------------------
>
> Yahoo! Groups Links
>
> [Non-text portions of this message have been removed]
>
>
> Messages in this topic
> <http://groups.yahoo.com/group/TS-520_820_530_830/message/22651;_ylc=X3oDMTM2cmh2OGh2BF9
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3Z0cGMEc3RpbWUDMTI1NTI3MDk2MgR0cGNJZAMyMjY1MQ-->
> (28) Reply (via web post)
> <http://groups.yahoo.com/group/TS-520_820_530_830/post;_ylc=X3oDMTJxczVnaHU3BF9TAzk3MzU5
NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzIyODMyBHNlYwNmdHIEc2xrA3JwbHkEc3
RpbWUDMTI1NTI3MDk2Mg--?act=reply&messageNum=22832>
> | Start a new topic
> <http://groups.yahoo.com/group/TS-520_820_530_830/post;_ylc=X3oDMTJlYTAwZW5rBF9TAzk3MzU5
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> Messages
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> | Files
> <http://groups.yahoo.com/group/TS-520_820_530_830/files;_ylc=X3oDMTJmbmRjMWpxBF9TAzk3MzU
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> | Photos
> <http://groups.yahoo.com/group/TS-520_820_530_830/photos;_ylc=X3oDMTJlbzg3Zm1oBF9TAzk3Mz
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> | Members
> <http://groups.yahoo.com/group/TS-520_820_530_830/members;_ylc=X3oDMTJlcTRkNHRqBF9TAzk3M
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>
> Yahoo! Groups
> <http://groups.yahoo.com/;_ylc=X3oDMTJkNDJsczdvBF9TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc
3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA2dmcARzdGltZQMxMjU1MjcwOTYy>
>
> Change settings via the Web
> <http://groups.yahoo.com/group/TS-520_820_530_830/join;_ylc=X3oDMTJmY3RnZWkwBF9TAzk3MzU5
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A5NjI->
> (Yahoo! ID required)
> Change settings via email: Switch delivery to Daily Digest
> <mailto:TS-520_820_530_830-digest@yahoogroups.com?subject=Email%20Delivery:%20Digest>
> | Switch format to Traditional
> <mailto:TS-520_820_530_830-traditional@yahoogroups.com?subject=Change%20Delivery%20Forma
t:%20Traditional>
>
> Visit Your Group
> <http://groups.yahoo.com/group/TS-520_820_530_830;_ylc=X3oDMTJkNDJrMXRkBF9TAzk3MzU5NzE0B
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> | Yahoo! Groups Terms of Use <http://docs.yahoo.com/info/terms/> |
> Unsubscribe
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=>
> Recent Activity
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>   *
>   10
>   New Members
>   <http://groups.yahoo.com/group/TS-520_820_530_830/members;_ylc=X3oDMTJmNnN0YTVmBF9
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zEyNTUyNzA5NjI->
>
> Visit Your Group
> <http://groups.yahoo.com/group/TS-520_820_530_830;_ylc=X3oDMTJlOGRrZDJiBF9TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwN2dGwEc2xrA3ZnaHAEc3RpbWUDMTI1NTI3MDk2Mg-->
>
> Give Back
>
> Yahoo! for Good
> <http://us.lrd.yahoo.com/_ylc=X3oDMTJtZXBoNHBxBF9TAzk3MzU5NzE0BF9wAzEEZ3JwSWQDNzUyNTAyMQRncnBzcElkAzE3MDUwNjMxMDgEc2VjA25jbW9kBHNsawNicmFuZARzdGltZQMxMjU1MjcwOTYy;_ylg=1/SIG=11314uv3k/**http%3A//brand.yahoo.com/forgood>
>
> Get inspired
>
> by a good cause.
>
> Y! Toolbar
>
> Get it Free!
> <http://us.lrd.yahoo.com/_ylc=X3oDMTJvZTQ1aHFtBF9TAzk3MzU5NzE0BF9wAzIEZ3JwSWQDNzUyNTAyMQRncnBzcElkAzE3MDUwNjMxMDgEc2VjA25jbW9kBHNsawN0b29sYmFyBHN0aW1lAzEyNTUyNzA5NjI-;_ylg=1/SIG=11c6dvmk9/**http%3A//toolbar.yahoo.com/%3F.cpdl=ygrps>
>
> easy 1-click access
>
> to your groups.
>
> Yahoo! Groups
>
> Start a group
> <http://groups.yahoo.com/start;_ylc=X3oDMTJvMW9lNnZkBF9TAzk3MzU5NzE0BF9wAzMEZ3JwSWQDNzUyNTAyMQRncnBzcElkAzE3MDUwNjMxMDgEc2VjA25jbW9kBHNsawNncm91cHMyBHN0aW1lAzEyNTUyNzA5NjI->
>
> in 3 easy steps.
>
> Connect with others.
>

Yahoo! Groups Links

[Non-text portions of this message have been removed]

22847. Re: [TS-520_820_530_830] 6146B question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-11 22:22:26 UTC
From: Dave Kalter
Topic: 22843 Message: 22847

I think you will want to use 6146B in your kenwood.
 Matched pair is NOT needed.
there are a couple of files in the files page here on the
group page all about the 6146 family of beam tubes.
Click the link below and scroll down the page.
http://groups.yahoo.com/group/TS-520_820_530_830/files/
73 Dave

--- On Sun, 10/11/09, corner5 <corner5@...> wrote:

From: corner5 <corner5@...>
Subject: [TS-520_820_530_830] 6146B question
To: TS-520_820_530_830@yahoogroups.com, corner5@...
Date: Sunday, October 11, 2009, 6:56 PM

Hi,
I now own a TS-820S that I have not put on the air yet, and I have some
beginner questions about the tubes. I will soon be attending a local
hamfest and I thought I could look for a second set of "backup" tubes.
My questions:
> How important is it that the 6146B pair be "matched"? I have read
conflicting opinions on this. I have read that if you neutralize them
correctly, matching does not matter (providing they are both of the same
manufacturer) . I do know that matching seems to be justification for
asking for more money.
> How available are these tubes? Should I be obtaining two sets of
backups because I may not find them in the future?
> Should I also be looking at getting a backup or two of the 12BY7A?
> Lastly, is there any way to guess the condition/life of tubes just by
looking at them? Darkening, etc.?
Thanks! 73, ac0z, paul

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

22848. Re: [TS-520_820_530_830] Re: VFO-520 Cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-11 22:38:54 UTC
From: n6wk@n6wk.com
Topic: 22651 Message: 22848

The connectors on the ends are the almost impossible to find 9 pin mini
tube Connectors like a 12BY7 tube that Kenwood used back then.

These are the same connectors that are used to plug into the back of the
Rig when no External VFO is present.

73,
Gordon

ken bolin wrote:
>
>
> I was looking for the name/nomenclature of the connector on each end
> if it had ever been given one that is.
> Ken
>
> --- On Sun, 10/11/09, n6wk@... <mailto:n6wk%40n6wk.com>
> <n6wk@... <mailto:n6wk%40n6wk.com>> wrote:
>
> From: n6wk@... <mailto:n6wk%40n6wk.com> <n6wk@...
> <mailto:n6wk%40n6wk.com>>
> Subject: Re: [TS-520_820_530_830] Re: VFO-520 Cable
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Date: Sunday, October 11, 2009, 9:55 AM
>
> Hi Ken,
> It is the Connecting Cable that goes between the radio and the external
> VFO.
> I have been making them for the 520/820 radios and also the 530/830
> radios.
> The Original ones are impossible to find, too short and too stiff.
> Hope that explains it.
> 73,
> Gordon
> N6WK
>
> ken bolin wrote:
> >
> >
> > May I ask what is the name/nomenclature of that connector?
> > Ken
> >
> > --- On Sat, 10/10/09, n6wk_skcc3 <n6wk@...
> <mailto:n6wk%40n6wk.com>
> > <mailto:n6wk%40n6wk.com>> wrote:

> >
> > From: n6wk_skcc3 <n6wk@... <mailto:n6wk%40n6wk.com>
> <mailto:n6wk%40n6wk.com>>
> > Subject: [TS-520_820_530_830] Re: VFO-520 Cable
> > To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > <mailto:TS-520_820_530_830%40yahoogroups.com>
> > Date: Saturday, October 10, 2009, 3:45 PM
> >
> > I actually had enough top make up 5 cables.
> > 4 have been sold. I have just one left for the 520/820 VFO.
> > They are 30" long.
> > Please Email me off list if interested in this Last one.
> > The Cable is $25.00 plus $4.80 for priority mail shipping.
> > Thanks,
> > Gordon
> > N6WK
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "n6wk_skcc3" <n6wk@...>
> > wrote:
> > >
> > > Hi Rick,
> > > Did you ever get a cable?
> > > I have enough connectors to make up 3 cables. These are very nice
> > connectors with little screw on covers. Very nice Quality.
> > > I will sell each cable for $25.00 plus shipping. If you are still
> > interested, please let me know. I will make each cable 24" in length.
> > >
> > > 73,
> > > Gordon
> > > N6WK
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "VE3FMC" <ve3fmc@> wrote:
> > > >
> > > > Hello Everyone
> > > >
> > > > I am in need of the cable that connects the VFO-520 to a TS-520.
> > Does anyone have one they would sell?
> > > >
> > > > Or tell me where I might be able to purchase one?
> > > >
> > > > Thanks
> > > > 73, Rick VE3FMC
> > > >

> > >
> >
> >
>

22849. kenwood ts-520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-12 00:11:21 UTC
From: todd
Topic: 22849 Message: 22849

hi everybody,
I have a problem with my mode sw. on my 520s,i cant hear anything out of the speaker on LSB. I tried spraying cleaner on it but that didnt work. anybody have any ideas? Todd n5rvd.

22850. Re: kenwood ts-520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-12 01:35:12 UTC
From: w5rkl
Topic: 22849 Message: 22850

Hello Todd,

It appears the LSB CAR UNIT crystal is not oscillating. This could be caused by a faulty/bad LSB CAR UNIT crystal or some other problem on the CAR UNIT board resulting in the LSB CAR UNIT crystal failing to oscillate.

If you do not have the 520's service manual, you can download it free from n6wk's website. The service manual for the TS-520S can be downloaded at the following link:

http://www.n6wk.com/kenwood/520S_Service.pdf

If you do not have the TS-520S operating manual then you can download free at the following link:

http://www.n6wk.com/kenwood/

If you technical and/or troubleshooting skills are lacking then may I recommend locating a local ham who has the skills that can help you troubleshoot and repair your 520. The 520 is not difficult to fix but it can, at times, be quit over whelming.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "todd" <n5rvd@...> wrote:
>
> hi everybody,
> I have a problem with my mode sw. on my 520s,i cant hear anything out
> of the speaker on LSB. I tried spraying cleaner on it but that didnt
> work. anybody have any ideas? Todd n5rvd.
>

22851. Re: 6146B question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-12 02:13:41 UTC
From: w5rkl
Topic: 22843 Message: 22851

Hello Paul,

You can easily find 6146B tubes. The following link is one website that carries 6146B final tubes along with thousands of other tubes.

http://www.vacuumtubes.net/

Do not waste you money on matched tubes for your TS-520S.

Unless there is evidence the tubes are failing or weak, there is no need to replace them. Replacing them "just for the heck of it" or "the tubes are old and discolored around the silver coating inside the tubes glass envelope" is a huge waste of money. Discoloration of the silver lining on the inside of the glass envelope is not an indication the tube is going bad.

The "silver lining" (coating) on the inside of the glass envelope is the result of the "getter" process during manufacturing. Once the getter process takes place it cannot be repeated.

If the silver lining on the inside of the tube's glass envelope has turned "white" then that is a clear indication of a broken seal or crack in the glass envelope which results in a complete loss of vacuum. The silver lining turns white when exposed to air. You can't fix this so throw the tube away.

Here's a website that contains a lot of good tube information that will help you understand this and answer other questions you may have about tubes.

http://www.vacuumtubes.net/How_Vacuum_Tubes_Work.htm

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, corner5 <corner5@...> wrote:
>
> Hi,
> I now own a TS-820S that I have not put on the air yet, and I have some
> beginner questions about the tubes. I will soon be attending a local
> hamfest and I thought I could look for a second set of "backup" tubes.
> My questions:
> > How important is it that the 6146B pair be "matched"? I have read
> conflicting opinions on this. I have read that if you neutralize them
> correctly, matching does not matter (providing they are both of the same
> manufacturer). I do know that matching seems to be justification for
> asking for more money.
> > How available are these tubes? Should I be obtaining two sets of
> backups because I may not find them in the future?
> > Should I also be looking at getting a backup or two of the 12BY7A?

> > Lastly, is there any way to guess the condition/life of tubes just by
> looking at them? Darkening, etc.?
> Thanks! 73, ac0z, paul
>
>
> [Non-text portions of this message have been removed]
>

22852. Help with Trio TS-820D

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-12 06:09:24 UTC
From: jorgensentech
Topic: 22852 Message: 22852

Hello,

My name is Erik, KD6RRR. Thank you very much to the moderators for approving my membership.

I am hoping to get the group members advice on what they feel would be a fair asking price for a Trio TS-820D I am hoping to pass on to a better home.

I see from the group instructions that I am not allowed to offer it for sale here on the group for at least one month, so I will be sure to only list it elsewhere.

The rig powers on, and with a simple loop antenna receives local transmissions fine on all bands. I do not have a proper antenna system to test the transmitter. All knobs and switches function smoothly except for four of the five toggle switches on the left side which are missing the toggle. The four switches can be operated with no problem, they are just missing the post that extends out beyond the face of the rig. All lights appear to be functional; I do not know exactly where all they are located to be sure. In the dark, it is easy to see what needs to be seen to operate the rig properly. The meter functions. The digital display appears to be installed, but does not illuminate. When powering the transceiver on, there is current being drawn at about .6A, and when the heater is switched on, current draw rises to 4.8A, so I assume it is functioning properly.

The rig was used as a monitor by a elderly Citizens Band enthusiast who retired years ago from the railroad and enjoyed listening to CW but never wanted to become licensed as an amateur. He took great care of the rig before it landed in my lap. I fear that things have taken a turn for the worse for me and I have sold all my amateur gear save for this one.

Thank you for your input and time in replying.

73,

Erik

22853. Calibrationn of Kenwoos TS830S mono dial and digital dial (Please see image)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-12 06:17:59 UTC
From: Jonathan ORear
Topic: 22853 Message: 22853

Hello friends. I am having a problem with my Kenwood TS-830S mono dial not quite jiving up with the digital display on my radio. What type of calibration can I do to correct this? Please see image picture. Thank you friends.

JONATHAN B. O'REAR
AMATEUR/HAM RADIO COMMUNICATIONS/SHORTWAVE RADIO/TECHNICIAN CLASS/KD4MPW
EMERGENCY MEDICAL TECHNICIAN-BASIC LICENSED
NATIONAL WEATHER SERVICE-SEVERE WEATHER STORM SPOTTER/ADVANCED LEVEL
FIREFIGHTER

----- Forwarded Message ----
From: Jonathan B. O'Rear <jonkd4mpw@...>
To: Glen <windgate313@...>
Sent: Sun, October 11, 2009 12:21:57 AM
Subject: IMG00017-20091011-0017.jpg

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22854. TS-520S and problem with 3SK40 - attempting replacement

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-12 12:51:13 UTC
From: luke_dft
Topic: 22854 Message: 22854

Hello Group,
I'm new here, and this is my first post to this group. Let me introduce myself. I'm ham radio operator from Poland, and proud owner of TS-520S accompanied by several pieces of it's line. Recently, this wonderful trx suddenly refused to transmit. After tracing a bit I found that problem is faulty 3SK40 mosfet (Q1 on RF unit). I know that this problem appeared several times on this group. Unfortunately replacements suggested by many people such as 3SK48, 3N211 or 40673 available on ebay seem to be expensive solution. I decided to use BF961 transistor in place of 3SK40. It's rather cheap, and being still manufactured easy obtainable. BF961 transistor fits in rf board socket without crossing it's leads. Now my TS-520S works great, and after two days of testing my signal reports are ok. I think that this hint can be helpful to people having similar problems.
VY 73!
Luke SQ8DFT

22855. Carrier signal disappears on Transmit (ts-520s)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-12 13:58:57 UTC
From: jmathis7676
Topic: 22855 Message: 22855

Hello to all. Trying to fix a ts-520 and find that carrier (present during receive) disappears on transmit. Suggestions of potential problems. Seems to be on the carrier board (happens with line to generator board disconnected). Thanks to all. john

22856. Fw: IMG00017-20091011-0017.jpg / kenwood ts 830 s calibration / pleae see picture

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-12 17:25:20 UTC
From: Jonathan ORear
Topic: 22856 Message: 22856

Hello friends. I am having a problem with my Kenwood TS-830S mono dial not quite jiving up with the digital display on my radio. What type of calibration can I do to correct this? Please see image picture. Thank you friends.

JONATHAN B. O'REAR
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NATIONAL WEATHER SERVICE-SEVERE WEATHER STORM SPOTTER/ADVANCED LEVEL FIREFIGHTER

----- Forwarded Message ----
From: Jonathan B. O'Rear <metropolitan1977@...>
To: Jonathan O'Rear <jonkd4mpw@...>
Sent: Mon, October 12, 2009 12:10:14 PM
Subject: IMG00017-20091011-0017.jpg

Jonathan B. O'Rear / AT&T Blackberry Bold 9000

[Non-text portions of this message have been removed]

22857. Could use some help

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-12 20:33:59 UTC
From: blownfuse1
Topic: 22857 Message: 22857

I purchase a like new Kenwood Ts 830s and it doesn't have cw filters.

How do I find YK88C and YG455C cw filters ?

David
Wd8oss
Elyria, Ohio

[Non-text portions of this message have been removed]

22858. RE: [TS-520_820_530_830] Could use some help

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-12 20:53:08 UTC
From: Greg Anders
Topic: 22857 Message: 22858

1. Ebay

2. Place a wanted add on Eham.net or QTH.com

3. Buy replacements from INRAD.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of blownfuse1
Sent: Monday, October 12, 2009 1:34 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Could use some help

I purchase a like new Kenwood Ts 830s and it doesn't have cw filters.

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Wd8oss
Elyria, Ohio

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22859. Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood ts 830 s calibration / pleae see picture

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-12 21:02:06 UTC
From: Dave ve3wej
Topic: 22856 Message: 22859

images are not allowed , I believe, on the postings. try uploading to the user group site, or your own with a url link to it

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From: "Jonathan ORear" <jonkd4mpw@...>
Sent: Monday, October 12, 2009 1:25 PM
To: "KENWOOD TS-830S" <TS-520_820_530_830@yahoogroups.com>
Subject: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood ts 830 s calibration / pleae see picture

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> FIREFIGHTER
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> ----- Forwarded Message ----
> From: Jonathan B. O'Rear <metropolitan1977@...>
> To: Jonathan O'Rear <jonkd4mpw@...>
> Sent: Mon, October 12, 2009 12:10:14 PM
> Subject: IMG00017-20091011-0017.jpg
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> Jonathan B. O'Rear / AT&T Blackberry Bold 9000
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22860. Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood ts 830 s calibration / pleae see picture

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-12 21:17:11 UTC
From: Jonathan B. O'Rear
Topic: 22856 Message: 22860

Ok. U probably already know what I am referring to anyways. The digital dial and the dial around the knob are not jiving up but are close however can I fix this?
Jonathan B. O'Rear / AT&T Blackberry Bold 9000

-----Original Message-----
From: "Dave ve3wej" <ve3wej@...>
Date: Mon, 12 Oct 2009 17:02:06
To: <TS-520_820_530_830@yahoogroups.com>
Subject: Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood ts 830 s calibration / pleae see picture

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From: "Jonathan ORear" <jonkd4mpw@...>
Sent: Monday, October 12, 2009 1:25 PM
To: "KENWOOD TS-830S" <TS-520_820_530_830@yahoogroups.com>
Subject: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood ts 830 s calibration / pleae see picture

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> FIREFIGHTER
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> ----- Forwarded Message ----
> From: Jonathan B. O'Rear <metropolitan1977@...>
> To: Jonathan O'Rear <jonkd4mpw@...>
> Sent: Mon, October 12, 2009 12:10:14 PM
> Subject: IMG00017-20091011-0017.jpg
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> Jonathan B. O'Rear / AT&T Blackberry Bold 9000
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> Yahoo! Groups Links
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22861. RE: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood ts 830 s calibration / pleae see picture

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-12 21:41:33 UTC
From: Greg Anders
Topic: 22856 Message: 22861

Yes, if you want to go into the limited space between the front panel and the VFO can. You can loosen a coupling in there are move the dial to line up.
I always left mine alone after looking into the details and seeing how little space there is to maneuver in there.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jonathan B. O'Rear
Sent: Monday, October 12, 2009 2:17 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood ts 830 s calibration / pleae see picture

Ok. U probably already know what I am referring to anyways. The digital dial and the dial around the knob are not jiving up but are close however can I fix this?
Jonathan B. O'Rear / AT&T Blackberry Bold 9000

-----Original Message-----
From: "Dave ve3wej" <ve3wej@...<mailto:ve3wej%40gmail.com>>
Date: Mon, 12 Oct 2009 17:02:06
To: <TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>>
Subject: Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood ts 830 s calibration / pleae see picture

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From: "Jonathan ORear" <jonkd4mpw@...<mailto:jonkd4mpw%40yahoo.com>>
Sent: Monday, October 12, 2009 1:25 PM
To: "KENWOOD TS-830S"
<TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>>
Subject: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood ts
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> ----- Forwarded Message ----
> From: Jonathan B. O'Rear <metropolitan1977@...<mailto:metropolitan1977%40yahoo.com>>
> To: Jonathan O'Rear <jonkd4mpw@...<mailto:jonkd4mpw%40yahoo.com>>
> Sent: Mon, October 12, 2009 12:10:14 PM
> Subject: IMG00017-20091011-0017.jpg
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> Jonathan B. O'Rear / AT&T Blackberry Bold 9000
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22862. Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwoodts 830 s calibration / pleae see picture

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-12 21:57:17 UTC
From: Jonathan B. O'Rear
Topic: 22856 Message: 22862

Will the dial calibration procedure not line them back up?
Jonathan B. O'Rear / AT&T Blackberry Bold 9000

-----Original Message-----
From: Greg Anders <greg.anders@...>
Date: Mon, 12 Oct 2009 14:41:33
To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830@yahoogroups.com>
Subject: RE: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood
ts 830 s calibration / pleae see picture

Yes, if you want to go into the limited space between the front panel and the VFO can. You can loosen a coupling in there are move the dial to line up.
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Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jonathan B. O'Rear
Sent: Monday, October 12, 2009 2:17 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood ts 830 s calibration / pleae see picture

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Jonathan B. O'Rear / AT&T Blackberry Bold 9000

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Date: Mon, 12 Oct 2009 17:02:06
To: <TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>>
Subject: Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood ts 830 s calibration / pleae see picture

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Sent: Monday, October 12, 2009 1:25 PM
To: "KENWOOD TS-830S"
<TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>>
Subject: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood ts

830 s calibration / pleae see picture

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> ----- Forwarded Message ----
> From: Jonathan B. O'Rear <metropolitan1977@...<mailto:metropolitan1977%40yahoo.com>>
> To: Jonathan O'Rear <jonkd4mpw@...<mailto:jonkd4mpw%40yahoo.com>>
> Sent: Mon, October 12, 2009 12:10:14 PM
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22863. RE: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwoodts 830 s calibration / pleae see picture

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-12 22:28:20 UTC
From: Greg Anders
Topic: 22856 Message: 22863

I believe the calibration procedure is to accurately set the digital dial isn't it? The mechanical dial is coupled to the VFO shaft. What ever you do, DO NOT play with the USB offset. That is set so you can flip from UBB to LSB and stay on the same frequency.

Greg

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jonathan B. O'Rear
Sent: Monday, October 12, 2009 2:57 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwoodts 830 s calibration / pleae see picture

Will the dial calibration procedure not line them back up?
Jonathan B. O'Rear / AT&T Blackberry Bold 9000

-----Original Message-----
From: Greg Anders <greg.anders@...<mailto:greg.anders%40synopsys.com>>
Date: Mon, 12 Oct 2009 14:41:33
To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com><TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>>
Subject: RE: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood ts 830 s calibration / pleae see picture

Yes, if you want to go into the limited space between the front panel and the VFO can. You can loosen a coupling in there are move the dial to line up.
I always left mine alone after looking into the details and seeing how little space there is to maneuver in there.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com> [mailto:TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of Jonathan B. O'Rear
Sent: Monday, October 12, 2009 2:17 PM
To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
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Subject: Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood ts 830 s calibration / pleae see picture

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<jonkd4mpw@...<mailto:jonkd4mpw%40yahoo.com><mailto:jonkd4mpw%40yahoo.com>>
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> To: Jonathan O'Rear
<jonkd4mpw@...<mailto:jonkd4mpw%40yahoo.com><mailto:jonkd4mpw%40yahoo.com>>
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> Subject: IMG00017-20091011-0017.jpg
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> Jonathan B. O'Rear / AT&T Blackberry Bold 9000
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22864. Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwoodts830 s calibration / pleae see picture

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-12 22:44:27 UTC
From: Jonathan B. O'Rear
Topic: 22856 Message: 22864

Thank you greg. I have not had the lid off of the radio yet. Can you tell me where the usb offset is so I will be sure not to even touch it. Thank u sir.
Jonathan B. O'Rear / AT&T Blackberry Bold 9000

-----Original Message-----
From: Greg Anders <greg.anders@...>
Date: Mon, 12 Oct 2009 15:28:20
To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830@yahoogroups.com>
Subject: RE: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwoodts
830 s calibration / pleae see picture

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Greg

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jonathan B. O'Rear
Sent: Monday, October 12, 2009 2:57 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwoodts 830 s calibration / pleae see picture

Will the dial calibration procedure not line them back up?
Jonathan B. O'Rear / AT&T Blackberry Bold 9000

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From: Greg Anders <greg.anders@...<mailto:greg.anders%40synopsys.com>>
Date: Mon, 12 Oct 2009 14:41:33
To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com><TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>>
Subject: RE: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood
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From: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com> [mailto:TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of Jonathan B. O'Rear

Sent: Monday, October 12, 2009 2:17 PM
To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
Subject: Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood ts 830 s calibration / pleae see picture

Ok. U probably already know what I am referring to anyways. The digital dial and the dial around the knob are not jiving up but are close however can I fix this?
Jonathan B. O'Rear / AT&T Blackberry Bold 9000

-----Original Message-----
From: "Dave ve3wej" <ve3wej@...<mailto:ve3wej%40gmail.com><mailto:ve3wej%40gmail.com>>
Date: Mon, 12 Oct 2009 17:02:06
To: <TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com>>
Subject: Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood ts 830 s calibration / pleae see picture

images are not allowed , I believe, on the postings. try uploading to the
user group site, or your own with a url link to it

From: "Jonathan ORear"
<jonkd4mpw@...<mailto:jonkd4mpw%40yahoo.com><mailto:jonkd4mpw%40yahoo.com>>
Sent: Monday, October 12, 2009 1:25 PM
To: "KENWOOD TS-830S" <TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com>>
Subject: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood ts 830 s calibration / pleae see picture

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> calibration can I do to correct this? Please see image picture. Thank
> you friends.
>
>
> JONATHAN B. O'REAR
> AMATEUR/HAM RADIO COMMUNICATIONS/SHORTWAVE RADIO/TECHNICIAN CLASS/KD4MPW
> EMERGENCY MEDICAL TECHNICIAN-BASIC LICENSED
> NATIONAL WEATHER SERVICE-SEVERE WEATHER STORM SPOTTER/ADVANCED LEVEL
> FIREFIGHTER
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>
> ----- Forwarded Message ----
> From: Jonathan B. O'Rear <metropolitan1977@...<mailto:metropolitan1977%40yahoo.com><mailto:metropolitan1977%40yahoo.com>>
> To: Jonathan O'Rear
<jonkd4mpw@...<mailto:jonkd4mpw%40yahoo.com><mailto:jonkd4mpw%40yahoo.com>>
> Sent: Mon, October 12, 2009 12:10:14 PM
> Subject: IMG00017-20091011-0017.jpg

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> Jonathan B. O'Rear / AT&T Blackberry Bold 9000
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22865. Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwoodts 830 s calibration / pleae see picture

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-12 22:59:17 UTC
From: don langston
Topic: 22856 Message: 22865

Don't worry about the dial, the dig. readout is what you want to go by.
The mech. dial will never be any closer the 1.2 KC anyway
Don.
Ex TKC tech.
w4jvy

Jonathan B. O'Rear wrote:
>
>
> Will the dial calibration procedure not line them back up?
> Jonathan B. O'Rear / AT&T Blackberry Bold 9000
>
> -----Original Message-----
> From: Greg Anders <greg.anders@...
> <mailto:greg.anders%40synopsys.com>>
> Date: Mon, 12 Oct 2009 14:41:33
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com><TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>>
> Subject: RE: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood
> ts 830 s calibration / pleae see picture
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> KG6YV
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> <mailto:TS-520_820_530_830%40yahoogroups.com>
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> kenwood ts 830 s calibration / pleae see picture
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> <mailto:ve3wej%40gmail.com><mailto:ve3wej%40gmail.com>>
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m>>
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> From: "Jonathan ORear" <jonkd4mpw@...
> <mailto:jonkd4mpw%40yahoo.com><mailto:jonkd4mpw%40yahoo.com>>
> Sent: Monday, October 12, 2009 1:25 PM
> To: "KENWOOD TS-830S" <TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.co
m>>
> Subject: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood ts
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> > JONATHAN B. O'REAR
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> >
> > ----- Forwarded Message ----
> > From: Jonathan B. O'Rear <metropolitan1977@...
> <mailto:metropolitan1977%40yahoo.com><mailto:metropolitan1977%40yahoo.com>>
> > To: Jonathan O'Rear <jonkd4mpw@...
> <mailto:jonkd4mpw%40yahoo.com><mailto:jonkd4mpw%40yahoo.com>>
> > Sent: Mon, October 12, 2009 12:10:14 PM
> > Subject: IMG00017-20091011-0017.jpg
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> > Jonathan B. O'Rear / AT&T Blackberry Bold 9000
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> > Yahoo! Groups Links
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22866. RE: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwoodts830 s calibration / pleae see picture

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-12 23:05:31 UTC
From: Greg Anders
Topic: 22856 Message: 22866

It is one of the adjustments thru the cover on the VFO can. Just don't touch any of them and you won't be in trouble.

Greg

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jonathan B. O'Rear
Sent: Monday, October 12, 2009 3:44 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwoodts830 s calibration / pleae see picture

Thank you greg. I have not had the lid off of the radio yet. Can you tell me where the usb offset is so I will be sure not to even touch it. Thank u sir.
Jonathan B. O'Rear / AT&T Blackberry Bold 9000

-----Original Message-----
From: Greg Anders <greg.anders@...<mailto:greg.anders%40synopsys.com>>
Date: Mon, 12 Oct 2009 15:28:20
To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com><TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>>
Subject: RE: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwoodts 830 s calibration / pleae see picture

I believe the calibration procedure is to accurately set the digital dial isn't it? The mechanical dial is coupled to the VFO shaft. What ever you do, DO NOT play with the USB offset. That is set so you can flip from UBB to LSB and stay on the same frequency.

Greg

From: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com> [mailto:TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of Jonathan B. O'Rear
Sent: Monday, October 12, 2009 2:57 PM
To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
Subject: Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwoodts 830 s calibration / pleae see picture

Will the dial calibration procedure not line them back up?
Jonathan B. O'Rear / AT&T Blackberry Bold 9000

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Date: Mon, 12 Oct 2009 14:41:33
To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com><mailto

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Subject: RE: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood ts 830 s calibration / pleae see picture

Yes, if you want to go into the limited space between the front panel and the VFO can. You can loosen a coupling in there are move the dial to line up.
I always left mine alone after looking into the details and seeing how little space there is to maneuver in there.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com> [mailto:TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of Jonathan B. O'Rear
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To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com>
Subject: Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood ts 830 s calibration / pleae see picture

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Subject: Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood ts 830 s calibration / pleae see picture

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From: "Jonathan ORear" <jonkd4mpw@...<mailto:jonkd4mpw%40yahoo.com><mailto:jonkd4mpw%40yahoo.com><mailto:jonkd4mpw%40yahoo.com>>
Sent: Monday, October 12, 2009 1:25 PM
To: "KENWOOD TS-830S" <TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com>>
Subject: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood ts 830 s calibration / pleae see picture

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> From: Jonathan B. O'Rear <metropolitan1977@...<mailto:metropolitan1977%40yahoo.com><mail
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> To: Jonathan O'Rear <jonkd4mpw@...<mailto:jonkd4mpw%40yahoo.com><mailto:jonkd4mpw%40yaho
o.com><mailto:jonkd4mpw%40yahoo.com>>
> Sent: Mon, October 12, 2009 12:10:14 PM
> Subject: IMG00017-20091011-0017.jpg
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> Jonathan B. O'Rear / AT&T Blackberry Bold 9000
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> Yahoo! Groups Links
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22867. Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg /kenwoodts830 s calibration / pleae see picture

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-12 23:15:07 UTC
From: Jonathan B. O'Rear
Topic: 22856 Message: 22867

So it is inside the radio Greg?
Jonathan B. O'Rear / AT&T Blackberry Bold 9000

-----Original Message-----
From: Greg Anders <greg.anders@...>
Date: Mon, 12 Oct 2009 16:05:31
To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830@yahoogroups.com>
Subject: RE: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg /
kenwoodts830 s calibration / pleae see picture

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Greg

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jonathan B. O'Rear
Sent: Monday, October 12, 2009 3:44 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwoodts830 s calibration / pleae see picture

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Jonathan B. O'Rear / AT&T Blackberry Bold 9000

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Date: Mon, 12 Oct 2009 15:28:20
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Subject: RE: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwoodts
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From: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
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Subject: Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwoodts 830 s

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<greg.anders@...<mailto:greg.anders%40synopsys.com><mailto:greg.anders%40synopsys.com>>
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0_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com>>
Subject: RE: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood
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Subject: Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood ts 830 s
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> ----- Forwarded Message ----
> From: Jonathan B. O'Rear <metropolitan1977@...<mailto:metropolitan1977%40yahoo.com><mailto:metropolitan1977%40yahoo.com><mailto:metropolitan1977%40yahoo.com>>
> To: Jonathan O'Rear <jonkd4mpw@...<mailto:jonkd4mpw%40yahoo.com><mailto:jonkd4mpw%40yahoo.com><mailto:jonkd4mpw%40yahoo.com>>
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> Jonathan B. O'Rear / AT&T Blackberry Bold 9000
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[Non-text portions of this message have been removed]

22868. Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg /kenwoodts830 s calibration / pleae see picture

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-12 23:36:18 UTC
From: Charlie , W5COV
Topic: 22856 Message: 22868

Jonathan , some things are better left as is . I have 44 years as a ham and a decent test bench with good test equipment and I wouldn't make the adjustment or worry about it .

From your description , it does not sound like it is serious enough of a problem to be of concern .

Just my 2 cents worth .

Charlie , W5COV

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22869. Re: Could use some help

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-13 00:26:15 UTC
From: Hartlessone
Topic: 22857 Message: 22869

Greg,
I'm an avid CW operator and before I tried to find CW filters for your TS-830, I would use the VBT, IF Shift, and notch filter until I decided it was not enough for you. I find these to be excellent CW tools and long ago gave up on the idea of a CW filter.
73
Bill
W5ZV

--- In TS-520_820_530_830@yahoogroups.com, Greg Anders <greg.anders@...> wrote:
>
> 1. Ebay
>
> 2. Place a wanted add on Eham.net or QTH.com
>
> 3. Buy replacements from INRAD.
>
> Greg
> KG6YV
>
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of blownfuse1
> Sent: Monday, October 12, 2009 1:34 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Could use some help
>
>
>
> I purchase a like new Kenwood Ts 830s and it doesn't have cw filters.
>
> How do I find YK88C and YG455C cw filters ?
>
> David
> Wd8oss
> Elyria, Ohio
>
> [Non-text portions of this message have been removed]
>
>
>
> [Non-text portions of this message have been removed]
>

22870. Re: [TS-520_820_530_830] TS-520S and problem with 3SK40 - attempting replacement

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-13 00:46:25 UTC
From: Chris and Alex
Topic: 22854 Message: 22870

Hi Luke and Welcome,
It sounds like a good fix to file away for the future.

73

Chris SV0XBQ/9

2009/10/12 luke_dft <luke_dft@...>

>
>
> Hello Group,
> I'm new here, and this is my first post to this group. Let me introduce
> myself. I'm ham radio operator from Poland, and proud owner of TS-520S
> accompanied by several pieces of it's line. Recently, this wonderful trx
> suddenly refused to transmit. After tracing a bit I found that problem is
> faulty 3SK40 mosfet (Q1 on RF unit). I know that this problem appeared
> several times on this group. Unfortunately replacements suggested by many
> people such as 3SK48, 3N211 or 40673 available on ebay seem to be expensive
> solution. I decided to use BF961 transistor in place of 3SK40. It's rather
> cheap, and being still manufactured easy obtainable. BF961 transistor fits
> in rf board socket without crossing it's leads. Now my TS-520S works great,
> and after two days of testing my signal reports are ok. I think that this
> hint can be helpful to people having similar problems.
> VY 73!
> Luke SQ8DFT
>
>
>

[Non-text portions of this message have been removed]

22871. RE: [TS-520_820_530_830] Could use some help

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-13 02:08:37 UTC
From: Dick Merryman
Topic: 22857 Message: 22871

David-

The YK88C is in relatively good supply on eBay, QRZ and or QTH.com. The YG455C is rare for some reason and you'll be lucky to find one anywhere at any price.

However, don't despair, the YG455C-1 which is in very good supply, is nothing more than a YG455C mounted on a carrier board with connectors. Buy one of these and unsolder the filter from the carrier and you're ready to mount it in your TS-830S.

I just installed both of these filters in my TS-830S yesterday and it was a royal PIA. You can only tilt the IF board so far and you wind up needing three hands. I didn't want to disconnect the board for this installation because the connectors seem to be fragile and I didn't want to screw up the board..

Good luck,

-Dick-
N3XRU

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of blownfuse1
Sent: Monday, October 12, 2009 1:34 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Could use some help

I purchase a like new Kenwood Ts 830s and it doesn't have cw filters.

How do I find YK88C and YG455C cw filters ?

David
Wd8oss
Elyria, Ohio

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

22872. Re: [TS-520_820_530_830] Could use some help

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-13 02:54:08 UTC
From: Jerry Keller
Topic: 22857 Message: 22872

What CW filters are compatible with the TS-520S ? I know about the INRAD... are there any others? Maybe something "in good supply" or that I can remove from a "carrier board" as N3XRU describes for the 830S ? I just want to know what to look for on e-bay...

73, Jerry K3BZ
----- Original Message -----
From: Dick Merryman
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, October 12, 2009 10:08 PM
Subject: RE: [TS-520_820_530_830] Could use some help

David-

The YK88C is in relatively good supply on eBay, QRZ and or QTH.com. The YG455C is rare for some reason and you'll be lucky to find one anywhere at any price.

However, don't despair, the YG455C-1 which is in very good supply, is nothing more than a YG455C mounted on a carrier board with connectors. Buy one of these and unsolder the filter from the carrier and you're ready to mount it in your TS-830S.

I just installed both of these filters in my TS-830S yesterday and it was a royal PIA. You can only tilt the IF board so far and you wind up needing three hands. I didn't want to disconnect the board for this installation because the connectors seem to be fragile and I didn't want to screw up the board..

Good luck,

-Dick-
N3XRU

_____

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of blownfuse1
Sent: Monday, October 12, 2009 1:34 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Could use some help

I purchase a like new Kenwood Ts 830s and it doesn't have cw filters.

How do I find YK88C and YG455C cw filters ?

David
Wd8oss
Elyria, Ohio

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

22873. Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg /kenwoodts830 s calibration / pleae see picture

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-13 03:06:25 UTC
From: Jonathan ORear
Topic: 22856 Message: 22873

I will take this advice and leave it alone. Thank you for your advice my friend.

JONATHAN B. O'REAR
AMATEUR/HAM RADIO COMMUNICATIONS/SHORTWAVE RADIO/TECHNICIAN CLASS/KD4MPW
EMERGENCY MEDICAL TECHNICIAN-BASIC LICENSED
NATIONAL WEATHER SERVICE-SEVERE WEATHER STORM SPOTTER/ADVANCED LEVEL
FIREFIGHTER

_____
From: "Charlie , W5COV" <cvest@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Mon, October 12, 2009 6:36:18 PM
Subject: Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg /kenwoodts830 s calibration / pleae see picture

Jonathan , some things are better left as is . I have 44 years as a ham and a decent test bench with good test equipment and I wouldn't make the adjustment or worry about it .

From your description , it does not sound like it is serious enough of a problem to be of concern .

Just my 2 cents worth .

Charlie , W5COV

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

22874. Re: Fw: IMG00017-20091011-0017.jpg /kenwoodts830 s calibration / pleae see picture

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-13 16:29:51 UTC
From: WimP
Topic: 22856 Message: 22874

Jonathan,
You can adjust the mechanical VFO scale to the digital.
The VFO knob has a second knurled ring on the back of the big VFO knob that can be turned separately and is connected to the mechanical VFO scale. You just keep the big VFO knob locked with one hand and turn the knurled knob until the mechanical scala correspondents with the digital display of the VFO. It is really a cosmetic thing, because the digital counter is the one that is to use really.
See page 21 of the Operator manual.

Hope this helps,
73, Wim PA0PGA

--- In TS-520_820_530_830@yahoogroups.com, Jonathan ORear <jonkd4mpw@...> wrote:
>
> I will take this advice and leave it alone. Thank you for your advice my friend.
>
>
> JONATHAN B. O'REAR
> AMATEUR/HAM RADIO COMMUNICATIONS/SHORTWAVE RADIO/TECHNICIAN CLASS/KD4MPW
> EMERGENCY MEDICAL TECHNICIAN-BASIC LICENSED
> NATIONAL WEATHER SERVICE-SEVERE WEATHER STORM SPOTTER/ADVANCED LEVEL
> FIREFIGHTER
>
>
>
>
>
> _____
> From: "Charlie , W5COV" <cvest@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Mon, October 12, 2009 6:36:18 PM
> Subject: Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg /kenwoodts830 s calibration / pleae see picture
>
>
> Jonathan , some things are better left as is . I have 44 years as a ham and a decent test bench with good test equipment and I wouldn't make the adjustment or worry about it .
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> From your description , it does not sound like it is serious enough of a problem to be of concern .
>
> Just my 2 cents worth .
>
> Charlie , W5COV

>
> [Non-text portions of this message have been removed]
>
>
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>
>
> [Non-text portions of this message have been removed]
>

22875. Re: [TS-520_820_530_830] Re: Fw: IMG00017-20091011-0017.jpg /kenwoodts830 s calibration / pleae see picture

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-13 16:36:09 UTC
From: Jonathan B. O'Rear
Topic: 22856 Message: 22875

Are there two rings present on the main tuning knob? I tried that but the manual dial would still turn. I could not get it to stop turning to line up with the digital read out. Is there a way to lock the knob or ring(s) from turning? Please let me know and thank you again.
Jonathan B. O'Rear / AT&T Blackberry Bold 9000

-----Original Message-----
From: "WimP" <wpenders@...>
Date: Tue, 13 Oct 2009 16:29:51
To: <TS-520_820_530_830@yahoogroups.com>
Subject: [TS-520_820_530_830] Re: Fw: IMG00017-20091011-0017.jpg /kenwoodts830 s calibration / pleae see picture

Jonathan,
You can adjust the mechanical VFO scale to the digital.
The VFO knob has a second knurled ring on the back of the big VFO knob that can be turned separately and is connected to the mechanical VFO scale. You just keep the big VFO knob locked with one hand and turn the knurled knob until the mechanical scala correspondents with the digital display of the VFO. It is really a cosmetic thing, because the digital counter is the one that is to use really.
See page 21 of the Operator manual.

Hope this helps,
73, Wim PA0PGA

--- In TS-520_820_530_830@yahoogroups.com, Jonathan ORear <jonkd4mpw@...> wrote:
>
> I will take this advice and leave it alone. Thank you for your advice my friend.
>
>
> JONATHAN B. O'REAR
> AMATEUR/HAM RADIO COMMUNICATIONS/SHORTWAVE RADIO/TECHNICIAN CLASS/KD4MPW
> EMERGENCY MEDICAL TECHNICIAN-BASIC LICENSED
> NATIONAL WEATHER SERVICE-SEVERE WEATHER STORM SPOTTER/ADVANCED LEVEL
> FIREFIGHTER
>
>
>
>
>
>_______________________________
> From: "Charlie , W5COV" <cvest@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Mon, October 12, 2009 6:36:18 PM
> Subject: Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg /kenwoodts830 s

calibration / pleae see picture
>
>
> Jonathan , some things are better left as is . I have 44 years as a ham and a decent test bench with good test equipment and I wouldn't make the adjustment or worry about it .
>
> From your description , it does not sound like it is serious enough of a problem to be of concern .
>
> Just my 2 cents worth .
>
> Charlie , W5COV
>
> [Non-text portions of this message have been removed]
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>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

22876. TS-520 Globes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-13 11:30:15 UTC
From: toolmankev2002
Topic: 22876 Message: 22876

hi group,

can somebody help me out with the obvious here, i need to know the voltage of the globes in behind the dial and the meter of the rig as one of mine in each side is blown.

i have been looking at the Schematic and i just cant seem to see them

thanks

kevin

22877. Re: [TS-520_820_530_830] TS-520 Globes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-13 16:43:27 UTC
From: n6wk@n6wk.com
Topic: 22876 Message: 22877

12 volt 50ma

73,
Gordon
N6WK

toolmankev2002 wrote:
>
>
> hi group,
>
> can somebody help me out with the obvious here, i need to know the
> voltage of the globes in behind the dial and the meter of the rig as
> one of mine in each side is blown.
>
> i have been looking at the Schematic and i just cant seem to see them
>
> thanks
>
> kevin
>
> _

22878. Re: [TS-520_820_530_830] TS-520 Globes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-13 16:45:26 UTC
From: Jonathan B. O'Rear
Topic: 22876 Message: 22878

Hello kevin. You can probably purchase them from k4eaa.com but email him to check his supply first. Jonathan KD4MPW
Jonathan B. O'Rear / AT&T Blackberry Bold 9000

-----Original Message-----
From: "toolmankev2002" <toolmankev2002@...>
Date: Tue, 13 Oct 2009 11:30:15
To: <TS-520_820_530_830@yahoogroups.com>
Subject: [TS-520_820_530_830] TS-520 Globes

hi group,

can somebody help me out with the obvious here, i need to know the voltage of the globes in behind the dial and the meter of the rig as one of mine in each side is blown.

i have been looking at the Schematic and i just cant seem to see them

thanks

kevin

[Non-text portions of this message have been removed]

22879. Re: [TS-520_820_530_830] TS-520 Globes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-13 16:47:58 UTC
From: Dave Kalter
Topic: 22876 Message: 22879

Hi Kevin,
The bulbs 12V 25ma
Radio Shack part number 272-1141 works.
Also Ken k4eaa has some that might last longer.
73
Dave

--- On Tue, 10/13/09, toolmankev2002 <toolmankev2002@...> wrote:

From: toolmankev2002 <toolmankev2002@...>
Subject: [TS-520_820_530_830] TS-520 Globes
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, October 13, 2009, 11:30 AM

hi group,

can somebody help me out with the obvious here, i need to know the voltage of the globes in behind the dial and the meter of the rig as one of mine in each side is blown.

i have been looking at the Schematic and i just cant seem to see them

thanks

kevin

[Non-text portions of this message have been removed]

22880. Re: Fw: IMG00017-20091011-0017.jpg / kenwoodts 830 s calibration / pleae see picture

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-13 18:21:23 UTC
From: Thomas C
Topic: 22856 Message: 22880

I'm stunned at the number of crazy answers on this. READ THE EFFING MANUAL!!!! IT'S ALL THERE!!!!!

--- In TS-520_820_530_830@yahoogroups.com, Greg Anders <greg.anders@...> wrote:
>
> I believe the calibration procedure is to accurately set the digital dial isn't it? The mechanical dial is coupled to the VFO shaft. What ever you do, DO NOT play with the USB offset. That is set so you can flip from UBB to LSB and stay on the same frequency.
>
> Greg
>
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jonathan B. O'Rear
> Sent: Monday, October 12, 2009 2:57 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwoodts 830 s calibration / pleae see picture
>
>
>
> Will the dial calibration procedure not line them back up?
> Jonathan B. O'Rear / AT&T Blackberry Bold 9000
>
> -----Original Message-----
> From: Greg Anders <greg.anders@...<mailto:greg.anders%40synopsys.com>>
> Date: Mon, 12 Oct 2009 14:41:33
> To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com><TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>>
> Subject: RE: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood
> ts 830 s calibration / pleae see picture
>
> Yes, if you want to go into the limited space between the front panel and the VFO can. You can loosen a coupling in there are move the dial to line up.
> I always left mine alone after looking into the details and seeing how little space there is to maneuver in there.
>
> Greg
> KG6YV
>
> From: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com> [mailto:TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of Jonathan B. O'Rear
> Sent: Monday, October 12, 2009 2:17 PM
> To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>

> Subject: Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood ts 830 s calibration / pleae see picture
>
> Ok. U probably already know what I am referring to anyways. The digital dial and the dial around the knob are not jiving up but are close however can I fix this?
> Jonathan B. O'Rear / AT&T Blackberry Bold 9000
>
> -----Original Message-----
> From: "Dave ve3wej" <ve3wej@...<mailto:ve3wej%40gmail.com><mailto:ve3wej%40gmail.com>>
> Date: Mon, 12 Oct 2009 17:02:06
> To: <TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com>>
> Subject: Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood ts 830 s calibration / pleae see picture
>
> images are not allowed , I believe, on the postings. try uploading to the
> user group site, or your own with a url link to it
>
> ---
> From: "Jonathan ORear" <jonkd4mpw@...<mailto:jonkd4mpw%40yahoo.com><mailto:jonkd4mpw%40yahoo.com>>
> Sent: Monday, October 12, 2009 1:25 PM
> To: "KENWOOD TS-830S" <TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com>>
> Subject: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood ts
> 830 s calibration / pleae see picture
>
> > Hello friends. I am having a problem with my Kenwood TS-830S mono dial
> > not quite jiving up with the digital display on my radio. What type of
> > calibration can I do to correct this? Please see image picture. Thank
> > you friends.
> >
> >
> > JONATHAN B. O'REAR
> > AMATEUR/HAM RADIO COMMUNICATIONS/SHORTWAVE RADIO/TECHNICIAN CLASS/KD4MPW
> > EMERGENCY MEDICAL TECHNICIAN-BASIC LICENSED
> > NATIONAL WEATHER SERVICE-SEVERE WEATHER STORM SPOTTER/ADVANCED LEVEL
> > FIREFIGHTER
> >
> >
> >
> >
> > ----- Forwarded Message ----
> > From: Jonathan B. O'Rear <metropolitan1977@...<mailto:metropolitan1977%40yahoo.com><mailto:metropolitan1977%40yahoo.com>>
> > To: Jonathan O'Rear <jonkd4mpw@...<mailto:jonkd4mpw%40yahoo.com><mailto:jonkd4mpw%40yahoo.com>>
> > Sent: Mon, October 12, 2009 12:10:14 PM
> > Subject: IMG00017-20091011-0017.jpg
> >

> >
> > Jonathan B. O'Rear / AT&T Blackberry Bold 9000
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
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> >
> > Yahoo! Groups Links
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> [Non-text portions of this message have been removed]
>

22881. Re: [TS-520_820_530_830] Re: Fw: IMG00017-20091011-0017.jpg / kenwoodts 830 s calibration / pleae see picture

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-13 18:47:35 UTC
From: n6wk@n6wk.com
Topic: 22856 Message: 22881

Whoa!!!! That kind of answer isn't productive at all.
I think I understand what the asker is talking about. Say for example the Digital display shows 14.200.0 but the Dial does not exactly line up with the 200 on the round dial.
Adjusting the outer ring on the main tuning knob will NOT make these two coincide. There are two ways to make these line up.
well, actually three ways.
First, how much of a difference is there between the two?
Second of all, does the VFO to Dial variation stay linear from 0 to 500 on the Dial scale as compared to the digital display?
If it does or is very close, then they can be adjusted by removing the front Knob, loosen the nut (12mm I think) and carefully move the dial to match the Digital display.
The hard part is holding the dial in the correct spot while tightening the nut back up.

Gordon
N6WK

Thomas C wrote:
>
>
> I'm stunned at the number of crazy answers on this. READ THE EFFING
> MANUAL!!!! IT'S ALL THERE!!!!!
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, Greg Anders
> <greg.anders@...> wrote:
> >
> > I believe the calibration procedure is to accurately set the digital
> dial isn't it? The mechanical dial is coupled to the VFO shaft. What
> ever you do, DO NOT play with the USB offset. That is set so you can
> flip from UBB to LSB and stay on the same frequency.
> >
> > Greg
> >
> > From: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> [mailto:TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of Jonathan
> B. O'Rear
> > Sent: Monday, October 12, 2009 2:57 PM
> > To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>

> > Subject: Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg /
> kenwoodts 830 s calibration / pleae see picture
> >
> >
> >
> > Will the dial calibration procedure not line them back up?
> > Jonathan B. O'Rear / AT&T Blackberry Bold 9000
> >
> > -----Original Message-----
> > From: Greg Anders <greg.anders@...<mailto:greg.anders%40synopsys.com>>
> > Date: Mon, 12 Oct 2009 14:41:33
> > To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.co
m><TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.co
m>>
> > Subject: RE: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg /
> kenwood
> > ts 830 s calibration / pleae see picture
> >
> > Yes, if you want to go into the limited space between the front
> panel and the VFO can. You can loosen a coupling in there are move the
> dial to line up.
> > I always left mine alone after looking into the details and seeing
> how little space there is to maneuver in there.
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> > KG6YV
> >
> > From: TS-520_820_530_830@yahoogroups.com
>
<mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com>
> [mailto:TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.co
m>]
> On Behalf Of Jonathan B. O'Rear
> > Sent: Monday, October 12, 2009 2:17 PM
> > To: TS-520_820_530_830@yahoogroups.com
>
<mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com>
> > Subject: Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg /
> kenwood ts 830 s calibration / pleae see picture
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> digital dial and the dial around the knob are not jiving up but are
> close however can I fix this?
> > Jonathan B. O'Rear / AT&T Blackberry Bold 9000
> >
> > -----Original Message-----
> > From: "Dave ve3wej"

> <ve3wej@...<mailto:ve3wej%40gmail.com><mailto:ve3wej%40gmail.com>>
> > Date: Mon, 12 Oct 2009 17:02:06
> > To: <TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.co
m><mailto:TS-520_820_530_830%40yahoogroups.com>>
> > Subject: Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg /
> kenwood ts 830 s calibration / pleae see picture
> >
> > images are not allowed , I believe, on the postings. try uploading
> to the
> > user group site, or your own with a url link to it
> >
> > ---
> > From: "Jonathan ORear"
> <jonkd4mpw@...<mailto:jonkd4mpw%40yahoo.com><mailto:jonkd4mpw%40yahoo.com>>
> > Sent: Monday, October 12, 2009 1:25 PM
> > To: "KENWOOD TS-830S" <TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.co
m><mailto:TS-520_820_530_830%40yahoogroups.com>>
> > Subject: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg /
> kenwood ts
> > 830 s calibration / pleae see picture
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> > > Hello friends. I am having a problem with my Kenwood TS-830S mono dial
> > > not quite jiving up with the digital display on my radio. What type of
> > > calibration can I do to correct this? Please see image picture. Thank
> > > you friends.
> > >
> > >
> > > JONATHAN B. O'REAR
> > > AMATEUR/HAM RADIO COMMUNICATIONS/SHORTWAVE RADIO/TECHNICIAN
> CLASS/KD4MPW
> > > EMERGENCY MEDICAL TECHNICIAN-BASIC LICENSED
> > > NATIONAL WEATHER SERVICE-SEVERE WEATHER STORM SPOTTER/ADVANCED LEVEL
> > > FIREFIGHTER
> > >
> > >
> > >
> > >
> > > ----- Forwarded Message ----
> > > From: Jonathan B. O'Rear
> <metropolitan1977@...<mailto:metropolitan1977%40yahoo.com><mailto:metropolitan1977%40yah
oo.com>>
> > > To: Jonathan O'Rear
> <jonkd4mpw@...<mailto:jonkd4mpw%40yahoo.com><mailto:jonkd4mpw%40yahoo.com>>
> > > Sent: Mon, October 12, 2009 12:10:14 PM
> > > Subject: IMG00017-20091011-0017.jpg
> > >
> > >
> > > Jonathan B. O'Rear / AT&T Blackberry Bold 9000

> > >
> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
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> > >
> > > ------------------------------------
> > >
> > >
>

22882. Re: [TS-520_820_530_830] Re: Fw: IMG00017-20091011-0017.jpg / kenwoodts 830 s calibration / pleae see picture

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-13 18:28:18 UTC
From: Jonathan B. O'Rear
Topic: 22856 Message: 22882

And I am stunned at the way you are talking to us. I am completely new to this and will take all of the advice from seasoned hams I can get as they have the best advice. If you don't like their answers don't read the response. This group is for informational purposes and friends in my opinion. I have read the manual and it is greek to me as a beginner but I am learning a lot by asking questions to seasoned veterans.
Jonathan B. O'Rear / AT&T Blackberry Bold 9000

-----Original Message-----
From: "Thomas C" <carnage_59@...>
Date: Tue, 13 Oct 2009 18:21:23
To: <TS-520_820_530_830@yahoogroups.com>
Subject: [TS-520_820_530_830] Re: Fw: IMG00017-20091011-0017.jpg / kenwoodts 830 s calibration / pleae see picture

I'm stunned at the number of crazy answers on this. READ THE EFFING MANUAL!!!! IT'S ALL THERE!!!!!

--- In TS-520_820_530_830@yahoogroups.com, Greg Anders <greg.anders@...> wrote:
>
> I believe the calibration procedure is to accurately set the digital dial isn't it? The mechanical dial is coupled to the VFO shaft. What ever you do, DO NOT play with the USB offset. That is set so you can flip from UBB to LSB and stay on the same frequency.
>
> Greg
>
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jonathan B. O'Rear
> Sent: Monday, October 12, 2009 2:57 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwoodts 830 s calibration / pleae see picture
>
>
>
> Will the dial calibration procedure not line them back up?
> Jonathan B. O'Rear / AT&T Blackberry Bold 9000
>
> -----Original Message-----
> From: Greg Anders <greg.anders@...<mailto:greg.anders%40synopsys.com>>
> Date: Mon, 12 Oct 2009 14:41:33
> To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com><TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>>
> Subject: RE: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood
> ts 830 s calibration / pleae see picture

>
> Yes, if you want to go into the limited space between the front panel and the VFO can. You can loosen a coupling in there are move the dial to line up.
> I always left mine alone after looking into the details and seeing how little space there is to maneuver in there.
>
> Greg
> KG6YV
>
> From: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com> [mailto:TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of Jonathan B. O'Rear
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> To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> Subject: Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood ts 830 s calibration / pleae see picture
>
> Ok. U probably already know what I am referring to anyways. The digital dial and the dial around the knob are not jiving up but are close however can I fix this?
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> Subject: Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood ts 830 s calibration / pleae see picture
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> Sent: Monday, October 12, 2009 1:25 PM
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> > NATIONAL WEATHER SERVICE-SEVERE WEATHER STORM SPOTTER/ADVANCED LEVEL
> > FIREFIGHTER
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> >
> >
> >
> > ----- Forwarded Message ----
> > From: Jonathan B. O'Rear <metropolitan1977@...<mailto:metropolitan1977%40yahoo.com><ma
ilto:metropolitan1977%40yahoo.com>>
> > To: Jonathan O'Rear
<jonkd4mpw@...<mailto:jonkd4mpw%40yahoo.com><mailto:jonkd4mpw%40yahoo.com>>
> > Sent: Mon, October 12, 2009 12:10:14 PM
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> >
> >
> > Jonathan B. O'Rear / AT&T Blackberry Bold 9000
> >
> >
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> >
> > [Non-text portions of this message have been removed]
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> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
>
> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
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>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

22883. Re: [TS-520_820_530_830] Re: Fw: IMG00017-20091011-0017.jpg / kenwoodts830 s calibration / pleae see picture

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-13 18:50:50 UTC
From: Jonathan B. O'Rear
Topic: 22856 Message: 22883

Thank you Gordon. That is exactly what I needed to know sir.
Jonathan B. O'Rear / AT&T Blackberry Bold 9000

-----Original Message-----
From: n6wk@...
Date: Tue, 13 Oct 2009 11:47:35
To: <TS-520_820_530_830@yahoogroups.com>
Subject: Re: [TS-520_820_530_830] Re: Fw: IMG00017-20091011-0017.jpg / kenwoodts
830 s calibration / pleae see picture

Whoa!!!! That kind of answer isn't productive at all.
I think I understand what the asker is talking about. Say for example
the Digital display shows 14.200.0 but the Dial does not exactly line up
with the 200 on the round dial.
Adjusting the outer ring on the main tuning knob will NOT make these two
coincide. There are two ways to make these line up.
well, actually three ways.
First, how much of a difference is there between the two?
Second of all, does the VFO to Dial variation stay linear from 0 to 500
on the Dial scale as compared to the digital display?
If it does or is very close, then they can be adjusted by removing the
front Knob, loosen the nut (12mm I think) and carefully move the dial to
match the Digital display.
The hard part is holding the dial in the correct spot while tightening
the nut back up.

Gordon
N6WK

Thomas C wrote:
>
>
> I'm stunned at the number of crazy answers on this. READ THE EFFING
> MANUAL!!!! IT'S ALL THERE!!!!!
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, Greg Anders
> <greg.anders@...> wrote:
> >
> > I believe the calibration procedure is to accurately set the digital
> dial isn't it? The mechanical dial is coupled to the VFO shaft. What
> ever you do, DO NOT play with the USB offset. That is set so you can
> flip from UBB to LSB and stay on the same frequency.
> >
> > Greg

> >
> > From: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> [mailto:TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of Jonathan
> B. O'Rear
> > Sent: Monday, October 12, 2009 2:57 PM
> > To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > Subject: Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg /
> kenwoodts 830 s calibration / pleae see picture
> >
> >
> >
> > Will the dial calibration procedure not line them back up?
> > Jonathan B. O'Rear / AT&T Blackberry Bold 9000
> >
> > -----Original Message-----
> > From: Greg Anders <greg.anders@...<mailto:greg.anders%40synopsys.com>>
> > Date: Mon, 12 Oct 2009 14:41:33
> > To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.co
m><TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.co
m>>
> > Subject: RE: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg /
> kenwood
> > ts 830 s calibration / pleae see picture
> >
> > Yes, if you want to go into the limited space between the front
> panel and the VFO can. You can loosen a coupling in there are move the
> dial to line up.
> > I always left mine alone after looking into the details and seeing
> how little space there is to maneuver in there.
> >
> > Greg
> > KG6YV
> >
> > From: TS-520_820_530_830@yahoogroups.com
>
<mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com>
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> <mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.co
m>]
> On Behalf Of Jonathan B. O'Rear
> > Sent: Monday, October 12, 2009 2:17 PM
> > To: TS-520_820_530_830@yahoogroups.com
>
<mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com>
> > Subject: Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg /

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m><mailto:TS-520_820_530_830%40yahoogroups.com>>
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> > To: "KENWOOD TS-830S" <TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.co
m><mailto:TS-520_820_530_830%40yahoogroups.com>>
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> kenwood ts
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> > > JONATHAN B. O'REAR
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> > > FIREFIGHTER
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> > >
> > >
> > >
> > > ----- Forwarded Message ----
> > > From: Jonathan B. O'Rear

> <metropolitan1977@...<mailto:metropolitan1977%40yahoo.com><mailto:metropolitan1977%40yah
oo.com>>
> > > To: Jonathan O'Rear
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> > >
> > >
> > > Jonathan B. O'Rear / AT&T Blackberry Bold 9000
> > >
> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
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> > > ------------------------------------
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>

[Non-text portions of this message have been removed]

22884. Re: TS-520 Globes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-13 19:05:19 UTC
From: w5rkl
Topic: 22876 Message: 22884

Kevin,

The lamps are on the lower right portion of the 520 schematic. They are labeled "PL1" thru "PL4". "PL" stands for "Pilot Lamp".

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, n6wk@... wrote:
>
> 12 volt 50ma
>
>
> 73,
> Gordon
> N6WK
>
> toolmankev2002 wrote:
> >
> >
> > hi group,
> >
> > can somebody help me out with the obvious here, i need to know the
> > voltage of the globes in behind the dial and the meter of the rig as
> > one of mine in each side is blown.
> >
> > i have been looking at the Schematic and i just cant seem to see them
> >
> > thanks
> >
> > kevin
> >
> > _
>

22885. TS 820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-13 19:36:50 UTC
From: Gene Henderson
Topic: 22885 Message: 22885

What is the difference between the TS 820 and the TS 820S

73
Gene
WB9HLA

[Non-text portions of this message have been removed]

22886. Re: TS 820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-13 19:59:40 UTC
From: n6wk_skcc3
Topic: 22885 Message: 22886

The 820S has the digital display. The 820 Does not !

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "Gene Henderson" <wb9hla@...> wrote:
>
> What is the difference between the TS 820 and the TS 820S
>
> 73
> Gene
> WB9HLA
>
> [Non-text portions of this message have been removed]
>

22887. Re: [TS-520_820_530_830] Re: Fw: IMG00017-20091011-0017.jpg / kenwoodts 830 s calibration / pleae see picture

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-13 21:02:15 UTC
From: Jerry Keller
Topic: 22856 Message: 22887

Thomas.... I understand your frustration at what you see as "dumb questions" from guys who haven't bothered to read the manual, but reflectors such as this are not just for the knowledgeable and experienced, but also for those who need help at many levels. And it's for those with the patience to answer questions and provide that help. It sometimes requires a lot of patience, which you clearly don't have much of at the moment. A good memory is also helpful, to recall when you yourself didn't know much and needed some assistance.

73, Jerry K3BZ
----- Original Message -----
From: Thomas C
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, October 13, 2009 2:21 PM
Subject: [TS-520_820_530_830] Re: Fw: IMG00017-20091011-0017.jpg / kenwoodts 830 s calibration / pleae see picture

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> Greg
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> Sent: Monday, October 12, 2009 2:57 PM
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> Subject: Re: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwoodts 830 s calibration / pleae see picture
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> Subject: RE: [TS-520_820_530_830] Fw: IMG00017-20091011-0017.jpg / kenwood
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> From: "Dave ve3wej" <ve3wej@...<mailto:ve3wej%40gmail.com><mailto:ve3wej%40gmail.com>>
> Date: Mon, 12 Oct 2009 17:02:06
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> > AMATEUR/HAM RADIO COMMUNICATIONS/SHORTWAVE RADIO/TECHNICIAN CLASS/KD4MPW
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ilto:metropolitan1977%40yahoo.com>>
> > To: Jonathan O'Rear
<jonkd4mpw@...<mailto:jonkd4mpw%40yahoo.com><mailto:jonkd4mpw%40yahoo.com>>
> > Sent: Mon, October 12, 2009 12:10:14 PM
> > Subject: IMG00017-20091011-0017.jpg
> >
> >
> > Jonathan B. O'Rear / AT&T Blackberry Bold 9000
> >
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> >
> > [Non-text portions of this message have been removed]
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> > ------------------------------------
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> > Yahoo! Groups Links
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Yahoo! Groups Links

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22888. Re: [TS-520_820_530_830] Re: TS-520 Globes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-13 21:28:18 UTC
From: Here i am
Topic: 22876 Message: 22888

Thanks to Mike & Brian and all Who Replied much appretiated i have the info i need now

Kevin

From: w5rkl <w5rkl@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wed, 14 October, 2009 6:05:19 AM
Subject: [TS-520_820_530_830] Re: TS-520 Globes

Kevin,

The lamps are on the lower right portion of the 520 schematic. They are labeled "PL1" thru "PL4". "PL" stands for "Pilot Lamp".

73's
Mike W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, n6wk@... wrote:
>
> 12 volt 50ma
>
>
> 73,
> Gordon
> N6WK
>
> toolmankev2002 wrote:
> >
> >
> > hi group,
> >
> > can somebody help me out with the obvious here, i need to know the
> > voltage of the globes in behind the dial and the meter of the rig as
> > one of mine in each side is blown.
> >
> > i have been looking at the Schematic and i just cant seem to see them
> >
> > thanks
> >
> > kevin
> >
> > _
>

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[Non-text portions of this message have been removed]

22889. Re: [TS-520_820_530_830] Re: Fw: kenwoodts 830 s calibration

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-13 23:08:03 UTC
From: John Davidson
Topic: 22856 Message: 22889

Some of the nit-picky people with digital dial numbers out to the tenth of a HZ drive me nutz!
They have to have the freq set right to 14.2000000000 even if nobody else in the net is quite there !?!?!
Back when I started we thought it was great if your receiver had a mechanical dial mark every 10 KHz !
Only the high end ones had a Xtal Calibrator .
The xtal in your transmitter may be pulled off freq by your osc circuit so if it was within a few KHz of its marked freq you never knew it !
Only care was to avoid band edges.
We still had fun.
z
--- On Tue, 10/13/09, Thomas C <carnage_59@yahoo.com> wrote:
From: Thomas C <carnage_59@...>
Subject: [TS-520_820_530_830] Re: Fw: IMG00017-20091011-0017.jpg / kenwoodts 830 s calibration /

I'm stunned at the number of crazy answers on this. READ THE EFFING MANUAL!!!! IT'S ALL THERE!!!!!

--- In TS-520_820_530_ 830@yahoogroups. com, Greg Anders <greg.anders@ ...> wrote:
>
> I believe the calibration procedure is to accurately set the digital dial isn't it? The

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 14
New MembersVisit Your Group

Give Back
Yahoo! for Good
Get inspired
by a good cause.

Y! Toolbar
Get it Free!
easy 1-click access
to your groups.

Yahoo! Groups
Start a group
in 3 easy steps.
Connect with others.
.

[Non-text portions of this message have been removed]

22892. Re: [TS-520_820_530_830] Re: Fw: IMG00017-20091011-0017.jpg / kenwoodts 830 s calibration / pleae see picture

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 00:54:00 UTC
From: Charlie , W5COV
Topic: 22856 Message: 22892

It is sad to see a person , that hurts the entire group .

We ALL were not inherently born knowing everything there is to know about radio , and even reading the books thoroughly at times , still leave you saying what are they talking about .

It can be for any number of reasons . If you are new , sometimes it is better explained by someone with experience , than trying to figure out what the manual is saying . I was a Novice 44 years ago and you know what , I still ask questions today , if it is not clear to me .

I can give you a valid medical excuse in my case , being disabled , with a neuro muscular disease , that DOES have an effect on my memory , as does the medication that I take for the condition .

Does that mean that I need to go back and read a book that I have read cover to cover many times in 30 or more years ?

I used to be the local guy that serviced most any brand of rig for the local guys , even homebrew equipment , free of charge . Now I find myself needing help at times .

This is the most helpful list for a particular group of radios that I have EVER belonged to .

I really don't know anyone on this list , and have no problems with my reliable old plain jane 520 , however I thoroughly enjoy reading the posts from the experts that know these rigs both inside and out . Mike absolutely amazes me . Reminds me of myself in my younger days . Gordon and so many others that I only know their names from their posts can usually put you right down to the exact component , without ever even seeing your radio !!

THANK YOU to ALL of you that I can't remember the names of for the posts . I REALLY enjoy just reading the problems and solutions .

Being on a fixed income , I may one day need their services and I will not hesitate to ask . Sending a radio out for repair isn't in the limited budget . They are the TRUE hams that helped me when I first started this wonderful hobby .

I have my eyes on a TS-830S , in absolutely new looking condition , with remote VFO and AT-230 tuner and matching speaker . It is not being used , because the gentleman could never figure out how to load it up due to his age and lack of understanding . If by some miracle , I can come up with the funds , I am going to buy it and it will be like buying a brand new state of the art radio. I do miss having 160 meters .

THANKS TO ALL OF THE WONDERFUL GUYS ON THIS LIST HELPING each other !!

There are no stupid questions , only stupid answers !!

Charlie , W5COV

LowFER Beacon , CV , 185.29825 kHz. , QRSS60 , 24 / 7 , EM26ex

[Non-text portions of this message have been removed]

22893. Re: [TS-520_820_530_830] Re: Fw: IMG00017-20091011-0017.jpg / kenwoodts 830 s calibration / pleae see picture

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 01:43:33 UTC
From: Jonathan B. O'Rear
Topic: 22856 Message: 22893

Well said Charlie. My hat is off to you. Forgive me for my last post. I should just ignore him which is the christian thing to do.
Jonathan B. O'Rear / AT&T Blackberry Bold 9000

-----Original Message-----
From: "Charlie , W5COV" <cvest@...>
Date: Tue, 13 Oct 2009 19:54:00
To: <TS-520_820_530_830@yahoogroups.com>
Subject: Re: [TS-520_820_530_830] Re: Fw: IMG00017-20091011-0017.jpg / kenwoodts 830 s calibration / pleae see picture

It is sad to see a person , that hurts the entire group .

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It can be for any number of reasons . If you are new , sometimes it is better explained by someone with experience , than trying to figure out what the manual is saying . I was a Novice 44 years ago and you know what , I still ask questions today , if it is not clear to me .

I can give you a valid medical excuse in my case , being disabled , with a neuro muscular disease , that DOES have an effect on my memory , as does the medication that I take for the condition .

Does that mean that I need to go back and read a book that I have read cover to cover many times in 30 or more years ?

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I really don't know anyone on this list , and have no problems with my reliable old plain jane 520 , however I thoroughly enjoy reading the posts from the experts that know these rigs both inside and out . Mike absolutely amazes me . Reminds me of myself in my younger days . Gordon and so many others that I only know their names from their posts can usually put you right down to the exact component , without ever even seeing your radio !!

THANK YOU to ALL of you that I can't remember the names of for the posts . I REALLY enjoy just reading the problems and solutions .

Being on a fixed income , I may one day need their services and I will not hesitate to ask . Sending a radio out for repair isn't in the limited budget . They are the TRUE hams that

helped me when I first started this wonderful hobby .

I have my eyes on a TS-830S , in absolutely new looking condition , with remote VFO and AT-230 tuner and matching speaker . It is not being used , because the gentleman could never figure out how to load it up due to his age and lack of understanding . If by some miracle , I can come up with the funds , I am going to buy it and it will be like buying a brand new state of the art radio. I do miss having 160 meters .

THANKS TO ALL OF THE WONDERFUL GUYS ON THIS LIST HELPING each other !!

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Charlie , W5COV

LowFER Beacon , CV , 185.29825 kHz. , QRSS60 , 24 / 7 , EM26ex

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[Non-text portions of this message have been removed]

22894. Moderators

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 02:23:44 UTC
From: Harry
Topic: 22894 Message: 22894

Walt N9WB Group Owner
Ellen AF9J Group Moderator
Gordon N6WK Group Moderator
Jon KD5SFA Group Moderator

How did this stuff get past you guys?
I got in trouble for asking a guy on the fox Tango Group to complete a transaction (I got burnt real bad).

Harry, k6aom

22895. Re: [TS-520_820_530_830] Moderators

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 02:30:56 UTC
From: n6wk@n6wk.com
Topic: 22894 Message: 22895

Harry,
The guy was no longer Moderated.
We don't moderate every message.
However,
He is NO longer with us. End of Story!

73,
Gordon

Harry wrote:
>
>
> Walt N9WB Group Owner
> Ellen AF9J Group Moderator
> Gordon N6WK Group Moderator
> Jon KD5SFA Group Moderator
>
> How did this stuff get past you guys?
> I got in trouble for asking a guy on the fox Tango Group to complete a
> transaction (I got burnt real bad).
>
> Harry, k6aom
>
>
E-Mail

22896. Mic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 02:30:05 UTC
From: Tom Peterson
Topic: 734 Message: 22896

Any of you try one of the MFJ-290K's on a 520? If so, did it work
well? This is the mic in question:
http://www.mfjenterprises.com/Product.php?productid=MFJ-290K

I asked MFJ but got a very cryptic and less than informative answer.

22897. Re: [TS-520_820_530_830] Mic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 02:37:22 UTC
From: Tom Peterson
Topic: 734 Message: 22897

That link should have been to the same mic, just with the 4 pin round
end. Sorry. I get ahead of myself sometimes.

Tom Peterson wrote:
>
>
> Any of you try one of the MFJ-290K's on a 520? If so, did it work
> well? This is the mic in question:
> http://www.mfjenterprises.com/Product.php?productid=MFJ-290K
> <http://www.mfjenterprises.com/Product.php?productid=MFJ-290K>
>
> I asked MFJ but got a very cryptic and less than informative answer.
>
>
> ---
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.421 / Virus Database: 270.14.13/2432 - Release Date: 10/13/09 06:35:00
>
>

22898. Re: Moderators

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 02:49:20 UTC
From: raydeeoh08
Topic: 22894 Message: 22898

Gordon,

That sounds pretty FINAL, Gordon ... maybe "he's no longer part of this group" is a tad more palatable. :)

Just a note of thanks to you and everyone else on this group. Although I am a big Kenwood fan (see below), I haven't made too many posts over the years. And, although I don't read every post, I have found lots of useful tidbits in many of the posts.

I have both manuals for all my rigs and have indeed read them many times - but sometimes some useful hint/kink comes up that just isn't in them. So I am grateful for that.

Keep up the very good work and 73 to all!

Cheers!

Robert
VE7BDO

TS-830s w/ remote VFO, speaker, SM-220 and MC-50 (all mint!)
TS-940s (2) w/ SP-940 speakers, SM-220 & MC-60s
TS-850s w/ SP-31
TL-922A
TS-440s

... and the ugly Yaesu (not really ugly, but it does have 6m!)

--- In TS-520_820_530_830@yahoogroups.com, n6wk@... wrote:
>
> Harry,
> The guy was no longer Moderated.
> We don't moderate every message.
> However,
> He is NO longer with us. End of Story!
>
> 73,
> Gordon
>
>
>
> Harry wrote:
> >
> >
> > Walt N9WB Group Owner
> > Ellen AF9J Group Moderator
> > Gordon N6WK Group Moderator
> > Jon KD5SFA Group Moderator

> >
> > How did this stuff get past you guys?
> > I got in trouble for asking a guy on the fox Tango Group to complete a
> > transaction (I got burnt real bad).
> >
> > Harry, k6aom
> >
> >
> E-Mail
>

22899. Re: [TS-520_820_530_830] Re: Moderators

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 03:06:40 UTC
From: n6wk@n6wk.com
Topic: 22894 Message: 22899

You are right Robert,
I should have said "he's no longer part of this group"

73,
Gordon

raydeeoh08 wrote:
>
>
> Gordon,
>
> That sounds pretty FINAL, Gordon ... maybe "he's no longer part of
> this group" is a tad more palatable. :)
>
> Just a note of thanks to you and everyone else on this group. Although
> I am a big Kenwood fan (see below), I haven't made too many posts over
> the years. And, although I don't read every post, I have found lots of
> useful tidbits in many of the posts.
>
> I have both manuals for all my rigs and have indeed read them many
> times - but sometimes some useful hint/kink comes up that just isn't
> in them. So I am grateful for that.
>
> Keep up the very good work and 73 to all!
>
> Cheers!
>
> Robert
> VE7BDO
>
> TS-830s w/ remote VFO, speaker, SM-220 and MC-50 (all mint!)
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> TS-850s w/ SP-31
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> TS-440s
>
> ... and the ugly Yaesu (not really ugly, but it does have 6m!)
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, n6wk@... wrote:
> >
> > Harry,
> > The guy was no longer Moderated.
> > We don't moderate every message.
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> > He is NO longer with us. End of Story!
> >
> > 73,
> > Gordon
> >
> >
> >
> > Harry wrote:
> > >
> > >
> > > Walt N9WB Group Owner
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> > > Jon KD5SFA Group Moderator
> > >
> > > How did this stuff get past you guys?
> > > I got in trouble for asking a guy on the fox Tango Group to
> complete a
> > > transaction (I got burnt real bad).
> > >
> > > Harry, k6aom
> > >
> > >
> > E-Mail
> >
>
>

22900. [TS-520_820_530_830] An 830 for W5COV

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 04:31:12 UTC
From: basketoak@cox.net
Topic: 22856 Message: 22900

All,

I hope this message is legal and does not offend anyone....

I have never met or had a QSO with W5COV, but after reading Charlie's last post (See below), it sounded warm and from the heart....and I for one would be honored to be part of making Charlie's dream rig be his.....

I will contribute $200 to the cause of getting this 830 & accessories in good hands....I have one myself and think Charlie is deserving.

How about it gang?

How much do we need to raise Charlie?

Warmest regards,

Dave
KG4MGB
Burke, VA

****
---- "Charlie wrote:

==========
It is sad to see a person , that hurts the entire group .

We ALL were not inherently born knowing everything there is to know about radio , and even reading the books thoroughly at times , still leave you saying what are they talking about .

It can be for any number of reasons . If you are new , sometimes it is better explained by someone with experience , than trying to figure out what the manual is saying . I was a Novice 44 years ago and you know what , I still ask questions today , if it is not clear to me .

I can give you a valid medical excuse in my case , being disabled , with a neuro muscular disease , that DOES have an effect on my memory , as does the medication that I take for the condition .

Does that mean that I need to go back and read a book that I have read cover to cover many times in 30 or more years ?

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I really don't know anyone on this list , and have no problems with my reliable old plain jane 520 , however I thoroughly enjoy reading the posts from the experts that know these rigs both inside and out . Mike absolutely amazes me . Reminds me of myself in my younger days . Gordon and so many others that I only know their names from their posts can usually put you right down to the exact component , without ever even seeing your radio !!

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THANKS TO ALL OF THE WONDERFUL GUYS ON THIS LIST HELPING each other !!

There are no stupid questions , only stupid answers !!

Charlie , W5COV

LowFER Beacon , CV , 185.29825 kHz. , QRSS60 , 24 / 7 , EM26ex

22901. [TS-520_820_530_830] An 830 for W5COV

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 04:30:42 UTC
From: basketoak@cox.net
Topic: 22856 Message: 22901

All,

I hope this message is legal and does not offend anyone....

I have never met or had a QSO with W5COV, but after reading Charlie's last post (See below), it sounded warm and from the heart....and I for one would be honored to be part of making Charlie's dream rig be his.....

I will contribute $200 to the cause of getting this 830 & accessories in good hands....I have one myself and think Charlie is deserving.

How about it gang?

How much do we need to raise Charlie?

Warmest regards,

Dave
KG4MGB
Burke, VA

****
---- "Charlie wrote:

==========
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There are no stupid questions , only stupid answers !!

Charlie , W5COV

LowFER Beacon , CV , 185.29825 kHz. , QRSS60 , 24 / 7 , EM26ex

22902. Re: [TS-520_820_530_830] An 830 for W5COV

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 05:23:09 UTC
From: Charlie , W5COV
Topic: 22856 Message: 22902

Dave ,

God Bless You . This is certainly an amazing group of hams and people that care about their fellow man .

Your gesture was a complete unexpected shock to me for which I am sincerely grateful .

I am trying to make a deal with him at the present time , that I can handle . He is a kind and generous ham too and he and I can probably make arrangements for me to work out a deal with him , that will allow me to make payments to him that I can afford .

He has not set a firm price on it yet . He just knows that at his age he can not use it and doesn't want to put any finals in it , that he will just lose again , without ever getting it on the air .

Again , I can not express my gratitude enough for your offer . Should I get it , I am for sure going to be looking for finals for it . At that time I will be looking for cheap to get it on the air .

For the time being , let me see what he and I can work out .

THANK YOU SO MUCH !!

Charlie , W5COV

[Non-text portions of this message have been removed]

22903. Thanks Gordon

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 05:59:30 UTC
From: sv0xbq
Topic: 22903 Message: 22903

Thanks for running a great group Gordon. I don't contribute a lot to the group because there are others here that are so much more knowledgeable about the Kenwood Hybrids than I am. I do however like to read the posts and they add a lot to my enjoyment of my hobby. I've had quite a bit of work to do to my 520SE and the site's been a great help. Everything may be in the manuals but to be able to talk things through with someone can be an invaluable aid to understanding a problem.

Keep up the good work.

73
Chris
SV0XBQ/9

22904. Re: [TS-520_820_530_830] Mic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 12:58:14 UTC
From: Martin
Topic: 734 Message: 22904

Hi Tom. I have not tried the mic in question, but I note that the impedance of the mic is not given. The TS-520 requires a high impedance mic. There is no way to tell how the mic will sound except to try it. Personally, I would be more likely to look for the appropriate Kenwood mic for the radio, but thats just me.

Good Luck.

Tom Peterson wrote:
> That link should have been to the same mic, just with the 4 pin round
> end. Sorry. I get ahead of myself sometimes.
>
> Tom Peterson wrote:
>
>>
>>
>> Any of you try one of the MFJ-290K's on a 520? If so, did it work
>> well? This is the mic in question:
>> http://www.mfjenterprises.com/Product.php?productid=MFJ-290K
>> <http://www.mfjenterprises.com/Product.php?productid=MFJ-290K>
>>
>> I asked MFJ but got a very cryptic and less than informative answer.
>>
>>
>> ---
>>
>>
>> No virus found in this incoming message.
>> Checked by AVG - www.avg.com
>> Version: 8.5.421 / Virus Database: 270.14.13/2432 - Release Date: 10/13/09 06:35:00
>>
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>>
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>

22905. Re: Mic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 14:43:32 UTC
From: w5rkl
Topic: 734 Message: 22905

While looking for information on the MJJ-290 microphone I came across the MFJ-9406 6 meter transceiver manual. On page 2 of the MFJ-9406 manual, it states the audio impedance of the MFJ-9406 transceiver is "600 ohms". On page 3 there is a brief statement concerning microphones. It says the following:

"The MFJ-290 dynamic mobile microphone complements your radio's speech processor."

Does that mean the MFJ-290 microphone is a low impedance microphone? Maybe, maybe not. From what I understand it is low impedance. I could be wrong so don't hold me to it.

Here's the link to the MFJ-9406 manual that briefly talks about the MFJ-290 microphone:

http://www.gokarters.com/vbforum/attachment.php?attachmentid=702&d=1217974795

It's a PDF file.

I also agree, try it first to see how it works. Have fun.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Martin <kb0hae@...> wrote:
>
> Hi Tom. I have not tried the mic in question, but I note that the
> impedance of the mic is not given. The TS-520 requires a high impedance
> mic. There is no way to tell how the mic will sound except to try it.
> Personally, I would be more likely to look for the appropriate Kenwood
> mic for the radio, but thats just me.
>
> Good Luck.
>
>
> Tom Peterson wrote:
> > That link should have been to the same mic, just with the 4 pin round
> > end. Sorry. I get ahead of myself sometimes.
> >
> > Tom Peterson wrote:
> >
> >>
> >>
> >> Any of you try one of the MFJ-290K's on a 520? If so, did it work
> >> well? This is the mic in question:
> >> http://www.mfjenterprises.com/Product.php?productid=MFJ-290K
> >> <http://www.mfjenterprises.com/Product.php?productid=MFJ-290K>
> >>
> >> I asked MFJ but got a very cryptic and less than informative answer.
> >>

> >>
> >> ---
> >>
> >>
> >> No virus found in this incoming message.
> >> Checked by AVG - www.avg.com
> >> Version: 8.5.421 / Virus Database: 270.14.13/2432 - Release Date: 10/13/09 06:35:00
> >>
> >>
> >>
> >
> >
> >
>

22906. RE: [TS-520_820_530_830] Re: Mic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 15:03:57 UTC
From: Greg Anders
Topic: 734 Message: 22906

Sounds like it's a low impedance microphone, not suitable for any hi-impedance Kenwood.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
Sent: Wednesday, October 14, 2009 7:44 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: Mic

While looking for information on the MJJ-290 microphone I came across the MFJ-9406 6 meter transceiver manual. On page 2 of the MFJ-9406 manual, it states the audio impedance of the MFJ-9406 transceiver is "600 ohms". On page 3 there is a brief statement concerning microphones. It says the following:

"The MFJ-290 dynamic mobile microphone complements your radio's speech processor."

Does that mean the MFJ-290 microphone is a low impedance microphone? Maybe, maybe not. From what I understand it is low impedance. I could be wrong so don't hold me to it.

Here's the link to the MFJ-9406 manual that briefly talks about the MFJ-290 microphone:

http://www.gokarters.com/vbforum/attachment.php?attachmentid=702&d=1217974795

It's a PDF file.

I also agree, try it first to see how it works. Have fun.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, Martin <kb0hae@...> wrote:
>
> Hi Tom. I have not tried the mic in question, but I note that the
> impedance of the mic is not given. The TS-520 requires a high impedance
> mic. There is no way to tell how the mic will sound except to try it.
> Personally, I would be more likely to look for the appropriate Kenwood
> mic for the radio, but thats just me.
>
> Good Luck.
>
>
> Tom Peterson wrote:
> > That link should have been to the same mic, just with the 4 pin round
> > end. Sorry. I get ahead of myself sometimes.
> >

> > Tom Peterson wrote:
> >
> >>
> >>
> >> Any of you try one of the MFJ-290K's on a 520? If so, did it work
> >> well? This is the mic in question:
> >> http://www.mfjenterprises.com/Product.php?productid=MFJ-290K
> >> <http://www.mfjenterprises.com/Product.php?productid=MFJ-290K>
> >>
> >> I asked MFJ but got a very cryptic and less than informative answer.
> >>
> >>
> >> ---
> >>
> >>
> >> No virus found in this incoming message.
> >> Checked by AVG - www.avg.com
> >> Version: 8.5.421 / Virus Database: 270.14.13/2432 - Release Date: 10/13/09 06:35:00
> >>
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> >

[Non-text portions of this message have been removed]

22907. TS 820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 15:39:47 UTC
From: Gene Henderson
Topic: 22907 Message: 22907

Where can I find relays for the TS 820.

73
Gene
WB9HLA

[Non-text portions of this message have been removed]

22908. Source for Caps

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 16:25:34 UTC
From: n6wk_skcc3
Topic: 22908 Message: 22908

Anyone have a good source for HV caps? I mean caps like 100pf @ 5KV 200pf @5kv 1000pf @ 5kv or similar?
I am not looking for Doorknob type. I am looking for the Disk type.
I searched on Newark and Digi-key, but have had no luck unless I am searching wrong somehow.
thanks,
Gordon

22909. Re: [TS-520_820_530_830] Source for Caps

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 16:38:34 UTC
From: Don Thomas
Topic: 22908 Message: 22909

Their pricey, but check Surplus Sales of Nebraska. Mouser may have them but haven't checked.

--- On Wed, 10/14/09, n6wk_skcc3 <n6wk@...> wrote:

From: n6wk_skcc3 <n6wk@...>
Subject: [TS-520_820_530_830] Source for Caps
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, October 14, 2009, 11:25 AM

Anyone have a good source for HV caps? I mean caps like 100pf @ 5KV 200pf @5kv 1000pf @ 5kv or similar?
I am not looking for Doorknob type. I am looking for the Disk type.
I searched on Newark and Digi-key, but have had no luck unless I am searching wrong somehow.
thanks,
Gordon

[Non-text portions of this message have been removed]

22910. Re: [TS-520_820_530_830] Source for Caps

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 16:39:53 UTC
From: Don Thomas
Topic: 22908 Message: 22910

Another place to look is RF Parts.

Don

--- On Wed, 10/14/09, n6wk_skcc3 <n6wk@...> wrote:

From: n6wk_skcc3 <n6wk@...>
Subject: [TS-520_820_530_830] Source for Caps
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, October 14, 2009, 11:25 AM

Anyone have a good source for HV caps? I mean caps like 100pf @ 5KV 200pf @5kv 1000pf @ 5kv or similar?
I am not looking for Doorknob type. I am looking for the Disk type.
I searched on Newark and Digi-key, but have had no luck unless I am searching wrong somehow.
thanks,
Gordon

[Non-text portions of this message have been removed]

22911. RE: [TS-520_820_530_830] Source for Caps

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 16:37:14 UTC
From: Greg Anders
Topic: 22908 Message: 22911

Try Antique Electronics, I know they have 1KV and 2KV ceramics.

www.tubesandmore.com<http://www.tubesandmore.com> in Tempe Ariz.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n6wk_skcc3
Sent: Wednesday, October 14, 2009 9:26 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Source for Caps

Anyone have a good source for HV caps? I mean caps like 100pf @ 5KV 200pf @5kv 1000pf @ 5kv or similar?
I am not looking for Doorknob type. I am looking for the Disk type.
I searched on Newark and Digi-key, but have had no luck unless I am searching wrong somehow.
thanks,
Gordon

[Non-text portions of this message have been removed]

22912. Re: TS 820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 17:26:20 UTC
From: w5rkl
Topic: 22907 Message: 22912

Gene,

Check the files section. There's a document file under "relays".

The original relays are no longer available. Are your's bad in your 820?

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Gene Henderson" <wb9hla@...> wrote:
>
> Where can I find relays for the TS 820.
>
> 73
> Gene
> WB9HLA
>
> [Non-text portions of this message have been removed]
>

22913. TS-830M serial numbers

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 17:29:12 UTC
From: sv0xbq
Topic: 22913 Message: 22913

Can anyone tell me, did the TS-830M sets have there own range of serial numbers or did they fall in with the TS-830S sets.
I've just picked up a TS-830M Serial Number 1080840. Can I tell from this when it was made?

Chris

22914. Re: Source for Caps

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 17:29:38 UTC
From: w5rkl
Topic: 22908 Message: 22914

I checked Mouser and a 1000pf 5KV ceramic capacitor is "$52.25". Mouser has 100 of them in stock ready to ship.

Mouser Part Number:

80-50HV24B102K

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Greg Anders <greg.anders@...> wrote:
>
> Try Antique Electronics, I know they have 1KV and 2KV ceramics.
>
> www.tubesandmore.com<http://www.tubesandmore.com> in Tempe Ariz.
>
> Greg
> KG6YV
>
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n6wk_skcc3
> Sent: Wednesday, October 14, 2009 9:26 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Source for Caps
>
>
>
> Anyone have a good source for HV caps? I mean caps like 100pf @ 5KV 200pf @5kv 1000pf @ 5kv or similar?
> I am not looking for Doorknob type. I am looking for the Disk type.
> I searched on Newark and Digi-key, but have had no luck unless I am searching wrong somehow.
> thanks,
> Gordon
>
>
>
> [Non-text portions of this message have been removed]
>

22915. Re: [TS-520_820_530_830] Re: TS 820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 17:29:36 UTC
From: n6wk@n6wk.com
Topic: 22907 Message: 22915

I have a new T/R relay for the TS-820.

Gordon
N6WK

w5rkl wrote:
>
>
> Gene,
>
> Check the files section. There's a document file under "relays".
>
> The original relays are no longer available. Are your's bad in your 820?
>
> 73's
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Gene Henderson"
> <wb9hla@...> wrote:
> >
> > Where can I find relays for the TS 820.
> >
> > 73
> > Gene
> > WB9HLA
> >
> > [Non-text portions of this message have been removed]
> >
>
> _

22916. Re: TS-830M serial numbers

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 17:32:44 UTC
From: w5rkl
Topic: 22913 Message: 22916

Chris,

I could be wrong but I believe the TS-830M was not sold in the U.S. Therefore, if that's true then I would suspect the "M" model may have had its own serial numbers. Again, I could be wrong.

I can't say whether the serial number can tell you when the radio was manufactured.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "sv0xbq" <alexandchrisp@...> wrote:
>
> Can anyone tell me, did the TS-830M sets have there own range of serial numbers or did they fall in with the TS-830S sets.
> I've just picked up a TS-830M Serial Number 1080840. Can I tell from this when it was made?
>
> Chris
>

22917. Re: [TS-520_820_530_830] Re: Source for Caps

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 17:38:18 UTC
From: n6wk@n6wk.com
Topic: 22908 Message: 22917

Thanks Mike,
I found a source finally that has 100, 200 or 500pf in lots of 10 for
only $9.99 per lot.

Thanks to everyone for the suggestions.

73,Gordon
N6WK

w5rkl wrote:
>
>
> I checked Mouser and a 1000pf 5KV ceramic capacitor is "$52.25".
> Mouser has 100 of them in stock ready to ship.
>
> Mouser Part Number:
>
> 80-50HV24B102K
>
> 73's
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, Greg Anders
> <greg.anders@...> wrote:
> >
> > Try Antique Electronics, I know they have 1KV and 2KV ceramics.
> >
> > www.tubesandmore.com<http://www.tubesandmore.com
> <http://www.tubesandmore.com>> in Tempe Ariz.
> >
> > Greg
> > KG6YV
> >
> > From: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> [mailto:TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of n6wk_skcc3
> > Sent: Wednesday, October 14, 2009 9:26 AM
> > To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > Subject: [TS-520_820_530_830] Source for Caps
> >
> >
> >
> > Anyone have a good source for HV caps? I mean caps like 100pf @ 5KV

> 200pf @5kv 1000pf @ 5kv or similar?
> > I am not looking for Doorknob type. I am looking for the Disk type.
> > I searched on Newark and Digi-key, but have had no luck unless I am
> searching wrong somehow.
> > thanks,
> > Gordon
> >
> >
> >
> >
>

22918. Re: [TS-520_820_530_830] Re: TS-830M serial numbers

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 18:35:13 UTC
From: pmarkavage
Topic: 22913 Message: 22918

The TS-830M was never marketed in the U. S. Kenwood had some weird way of imbedding the month and year of manufacture within the serial number. If they followed true to form with this rig, it was manufactured in 1979, the month of August, and it was the 840th made. The key is to know the years of production.

Pete, wa2cwa

On Wed, 14 Oct 2009 17:32:44 -0000 "w5rkl" <w5rkl@...> writes:
> Chris,
>
> I could be wrong but I believe the TS-830M was not sold in the U.S.
> Therefore, if that's true then I would suspect the "M" model may
> have had its own serial numbers. Again, I could be wrong.
>
> I can't say whether the serial number can tell you when the radio
> was manufactured.
>
> 73s
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "sv0xbq"
> <alexandchrisp@...> wrote:
> >
> > Can anyone tell me, did the TS-830M sets have there own range of
> serial numbers or did they fall in with the TS-830S sets.
> > I've just picked up a TS-830M Serial Number 1080840. Can I tell
> from this when it was made?
> >
> > Chris

22919. OEM FETS

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 19:31:52 UTC
From: don langston
Topic: 22919 Message: 22919

Ok OM and YL's I have NOS FETS
3-3SK40
3-3SK41
1-3SK35
these are TKC parts.
73
Don
w4jvy@...

22920. Re: [TS-520_820_530_830] Re: Mic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 19:42:09 UTC
From: Tom Peterson
Topic: 734 Message: 22920

Thanks all for the replies. Sounds like it's a no go on the mic
according to you all. For clarity, this is the question I asked MFJ:

> Looking at the MFJ-290. Would that be a suitable replacement mic for a
> Kenwood TS-520SE that calls for a 50K ohm mic? Also, would it be a
> good replacement for a worn mic on a Yaesu Ft-101 (early)? Thanks for
> your time and 73.
>
> Tom
> KC9ECI

and this is the answer I got:

> sure, it will replace any microphone, but only gives speaker and ptt
> functions only. no up/down frequencies, VFO, Call, etc.
>
> mfj-290K, $19.95. 8 pin round microphone for kenwood rigs.
>
> mfj-290y, $19.95. 8 pin round microphone for yaesu rigs.

22921. Re: [TS-520_820_530_830] Re: Mic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 19:30:15 UTC
From: Dave ve3wej
Topic: 734 Message: 22921

yes, I would believe it too

From: "w5rkl" <w5rkl@...>
Sent: Wednesday, October 14, 2009 10:43 AM
To: <TS-520_820_530_830@yahoogroups.com>
Subject: [TS-520_820_530_830] Re: Mic

> While looking for information on the MJJ-290 microphone I came across the
> MFJ-9406 6 meter transceiver manual. On page 2 of the MFJ-9406 manual, it
> states the audio impedance of the MFJ-9406 transceiver is "600 ohms". On
> page 3 there is a brief statement concerning microphones. It says the
> following:
>
> "The MFJ-290 dynamic mobile microphone complements your radio's speech
> processor."
>
> Does that mean the MFJ-290 microphone is a low impedance microphone?
> Maybe, maybe not. From what I understand it is low impedance. I could be
> wrong so don't hold me to it.
>
> Here's the link to the MFJ-9406 manual that briefly talks about the
> MFJ-290 microphone:
>
> http://www.gokarters.com/vbforum/attachment.php?attachmentid=702&d=1217974795
>
> It's a PDF file.
>
> I also agree, try it first to see how it works. Have fun.
>
> 73's
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, Martin <kb0hae@...> wrote:
>>
>> Hi Tom. I have not tried the mic in question, but I note that the
>> impedance of the mic is not given. The TS-520 requires a high impedance
>> mic. There is no way to tell how the mic will sound except to try it.
>> Personally, I would be more likely to look for the appropriate Kenwood
>> mic for the radio, but thats just me.
>>
>> Good Luck.
>>
>>

>> Tom Peterson wrote:
>> > That link should have been to the same mic, just with the 4 pin round
>> > end. Sorry. I get ahead of myself sometimes.
>> >
>> > Tom Peterson wrote:
>> >
>> >>
>> >>
>> >> Any of you try one of the MFJ-290K's on a 520? If so, did it work
>> >> well? This is the mic in question:
>> >> http://www.mfjenterprises.com/Product.php?productid=MFJ-290K
>> >> <http://www.mfjenterprises.com/Product.php?productid=MFJ-290K>
>> >>
>> >> I asked MFJ but got a very cryptic and less than informative answer.
>> >>
>> >>
>> >> ---
>> >>
>> >>
>> >> No virus found in this incoming message.
>> >> Checked by AVG - www.avg.com
>> >> Version: 8.5.421 / Virus Database: 270.14.13/2432 - Release Date:
>> >> 10/13/09 06:35:00
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22922. Re: [TS-520_820_530_830] Re: Mic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 20:34:41 UTC
From: Gordon JC Pearce
Topic: 734 Message: 22922

On Wed, 2009-10-14 at 14:42 -0500, Tom Peterson wrote:
> Thanks all for the replies. Sounds like it's a no go on the mic
> according to you all. For clarity, this is the question I asked MFJ:
>
<snip>

A not atypical response ;-)

It would work at a pinch, with audio gain all the way up and speaking very loudly. You could make a preamp to boost up the level and let the radio see the high impedance it wants, or you could find a suitable microphone transformer.

Or - and this is my preferred option - you could save your money and buy one you know is going to work.

Gordon MM0YEQ

22923. RE: [TS-520_820_530_830] An 830 for W5COV

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 22:55:09 UTC
From: Walter Milton
Topic: 22856 Message: 22923

All,

Dave I will donate $100 to go with your $200. Just keep me in the loop and let me know where and how to send it.

Walt, KA2NJF

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of basketoak@...
Sent: Wednesday, October 14, 2009 12:31 AM
To: TS-520_820_530_830@yahoogroups.com
Cc: Charlie , W5COV
Subject: [TS-520_820_530_830] An 830 for W5COV

All,

I hope this message is legal and does not offend anyone....

I have never met or had a QSO with W5COV, but after reading Charlie's last post (See below), it sounded warm and from the heart....and I for one would be honored to be part of making Charlie's dream rig be his.....

I will contribute $200 to the cause of getting this 830 & accessories in good hands....I have one myself and think Charlie is deserving.

How about it gang?

How much do we need to raise Charlie?

Warmest regards,

Dave
KG4MGB
Burke, VA

****
---- "Charlie wrote:

==========
It is sad to see a person , that hurts the entire group .

We ALL were not inherently born knowing everything there is to know about radio , and even reading the books thoroughly at times , still leave you saying what are they talking about .

It can be for any number of reasons . If you are new , sometimes it is better explained by someone with experience , than trying to figure out what the manual is saying . I was a Novice 44 years ago and you know what , I still ask questions today , if it is not clear to me .

I can give you a valid medical excuse in my case , being disabled , with a neuro muscular disease , that DOES have an effect on my memory , as does the medication that I take for the condition .

Does that mean that I need to go back and read a book that I have read cover to cover many times in 30 or more years ?

I used to be the local guy that serviced most any brand of rig for the local guys , even homebrew equipment , free of charge . Now I find myself needing help at times .

This is the most helpful list for a particular group of radios that I have EVER belonged to .

I really don't know anyone on this list , and have no problems with my reliable old plain jane 520 , however I thoroughly enjoy reading the posts from the experts that know these rigs both inside and out . Mike absolutely amazes me . Reminds me of myself in my younger days . Gordon and so many others that I only know their names from their posts can usually put you right down to the exact component , without ever even seeing your radio !!

THANK YOU to ALL of you that I can't remember the names of for the posts . I REALLY enjoy just reading the problems and solutions .

Being on a fixed income , I may one day need their services and I will not hesitate to ask . Sending a radio out for repair isn't in the limited budget . They are the TRUE hams that helped me when I first started this wonderful hobby .

I have my eyes on a TS-830S , in absolutely new looking condition , with remote VFO and AT-230 tuner and matching speaker . It is not being used , because the gentleman could never figure out how to load it up due to his age and lack of understanding . If by some miracle , I can come up with the funds , I am going to buy it and it will be like buying a brand new state of the art radio. I do miss having 160 meters .

THANKS TO ALL OF THE WONDERFUL GUYS ON THIS LIST HELPING each other !!

There are no stupid questions , only stupid answers !!

Charlie , W5COV

LowFER Beacon , CV , 185.29825 kHz. , QRSS60 , 24 / 7 , EM26ex

[Non-text portions of this message have been removed]

22924. ts 820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 23:08:54 UTC
From: chuck_meilicke
Topic: 15524 Message: 22924

Low power on 20 and 15 meter about 20-40 watts..is there a way to adjut this all other bands are ok

22925. Re: VFO-520 Cables

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 23:29:51 UTC
From: n6wk_skcc3
Topic: 22651 Message: 22925

I just received a New shipment of the RARE 9 pin Male connectors. I am going to start making up cables. I bought enough Connectors to make up 20, 520/820 VFO cables, 5 have already been pre-ordered and spoken for. I will be starting to ship on Friday. Don't miss out as I am not sure I can even get any more of these Rare 9 pin connectors.
The price is $25.00 plus $4.80 for Priority mail Shipping for each Cable. I combine shipping if you order more then one cable.
I will try to get more of these connectors and wire them up as the impossible to find Shorting plugs for these rigs.
Please email me OFF-List if you are interested.

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "n6wk_skcc3" <n6wk@...> wrote:
>
> Last Cable has been SOLD.
> Thanks to all.
> I may make more cables up in a couple of weeks if there is interest.
>
> 73,
> Gordon
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "n6wk_skcc3" <n6wk@> wrote:
> >
> >
> > I actually had enough top make up 5 cables.
> > 4 have been sold. I have just one left for the 520/820 VFO.
> > They are 30" long.
> > Please Email me off list if interested in this Last one.
> > The Cable is $25.00 plus $4.80 for priority mail shipping.
> > Thanks,
> > Gordon
> > N6WK
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "n6wk_skcc3" <n6wk@> wrote:
> > >
> > > Hi Rick,
> > > Did you ever get a cable?
> > > I have enough connectors to make up 3 cables. These are very nice connectors with little screw on covers. Very nice Quality.
> > > I will sell each cable for $25.00 plus shipping. If you are still interested, please let me know. I will make each cable 24" in length.

> > >
> > > 73,
> > > Gordon
> > > N6WK
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "VE3FMC" <ve3fmc@> wrote:
> > > >
> > > > Hello Everyone
> > > >
> > > > I am in need of the cable that connects the VFO-520 to a TS-520. Does anyone have one they would sell?
> > > >
> > > > Or tell me where I might be able to purchase one?
> > > >
> > > > Thanks
> > > > 73, Rick VE3FMC
> > > >
> > >
> >
>

22926. Re: [TS-520_820_530_830] Re: Mic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-14 23:49:48 UTC
From: Tom Peterson
Topic: 734 Message: 22926

I've got one of the old D-104 chicken chokers but while I used the heck out of one like in on CB back in the late 70's early 80's, I just can't quite get it adjusted to a point that I like without a squeal on the transmitted audio.

Gordon JC Pearce wrote:
>
>
> On Wed, 2009-10-14 at 14:42 -0500, Tom Peterson wrote:
> > Thanks all for the replies. Sounds like it's a no go on the mic
> > according to you all. For clarity, this is the question I asked MFJ:
> >
> <snip>
>
> A not atypical response ;-)
>
> It would work at a pinch, with audio gain all the way up and speaking
> very loudly. You could make a preamp to boost up the level and let the
> radio see the high impedance it wants, or you could find a suitable
> microphone transformer.
>
> Or - and this is my preferred option - you could save your money and buy
> one you know is going to work.
>
> Gordon MM0YEQ
>
>
> ---
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.421 / Virus Database: 270.14.16/2435 - Release Date: 10/14/09 06:33:00
>
>

22927. Re: [TS-520_820_530_830] Re: Mic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-15 00:08:30 UTC
From: martin
Topic: 734 Message: 22927

Hi Tom. The D-104 should not squeal! It may need to be rewired inside the base to work properly on the 4 pin Kenwood radios. They require that the PTT circuit be totally separate from the audio shield. You may have to change the wiring inside the base of the mic. It is OK for the mic wire to be connected all the time. In fact, it has to be if you ever would want to use VOX (I do not recommend using VOX at all).The PTT switch in the mic has to connect pins 2 and 3 on the mic plug, without either of these wires being connected to the audio shield.

The D-104 mics were made for CB radios, and they needed to be wired differently.

Another issue with the amplified D-104 mics is that you need a quiet room to use them. I have found that even with the gain control on the mic almost shut off, they pick up thew slightest noise in the room. While the D-104 will work if wired correctly, I would recommend selling it, and getting a more suitable mic. I would recommend a Kenwood MC-35S hand mic, or an MC-50 desk mic. Pretty much any high impedance desk or hand mic should work though.

TTYL

Tom Peterson wrote:
> I've got one of the old D-104 chicken chokers but while I used the heck
> out of one like in on CB back in the late 70's early 80's, I just can't
> quite get it adjusted to a point that I like without a squeal on the
> transmitted audio.
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

22928. NO tx/rx on 15 meters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-15 00:17:13 UTC
From: Stephen Judd
Topic: 22928 Message: 22928

I just wanted to respond to the reflector I asked this question a several weeks ago and received some great help I have been able to determine the issue it was a crystal ordered it from ICM and did a complete alignment procedure and things are up and running great on the TS-520 again thanks for your help each one 73
Stephen/KB7BGS

[Non-text portions of this message have been removed]

22929. Re: ts 820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-15 03:28:24 UTC
From: w5rkl
Topic: 15524 Message: 22929

It appears, based on the information you have provided, the COIL PACK UNIT for 20 and 15 is not adjusted properly. See the 820 service manual for details on these adjustments. You can download the 820 service manual at the following link (Gordon, N6WK's, webstie):

http://www.n6wk.com/kenwood/TS-820S_Service_manual.pdf

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "chuck_meilicke" <chuck_meilicke@...> wrote:
>
> Low power on 20 and 15 meter about 20-40 watts..is there a way to adjut this all other bands are ok
>

22930. TS 520 Wire Wrap Pins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-15 04:19:10 UTC
From: RipV
Topic: 22930 Message: 22930

I recently picked up a eBay TS-520 "Technician Special"

Initially no transmit and not much receive either. After a bath of contact cleaner and some basic adjustments I get RF out but receive still seems low. I also do not have any WWV. Marker works but S meter does not ever indicate a signal. I zeroed the meter and played with S meter gain adjust to no avail.

OK, here is my question. Are there any chronic problems with the wire wrap connections? Other that a wire fall off are they known for bad connections or corrosion problems?

I am getting ready to dig in and start signal tracing and I don't want to waste time looking for hidden non problems.

Thank you in advance.

Rip V W

22931. Re: [TS-520_820_530_830] Re: TS-830M serial numbers

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-15 05:24:27 UTC
From: Chris and Alex
Topic: 22913 Message: 22931

Thanks Guys,
Would you happen to know how many 830M's were made in total?

Chris SV0XBQ/9

2009/10/14 pmarkavage <pmarkavage@...>

>
>
> The TS-830M was never marketed in the U. S. Kenwood had some weird way of
> imbedding the month and year of manufacture within the serial number. If
> they followed true to form with this rig, it was manufactured in 1979,
> the month of August, and it was the 840th made. The key is to know the
> years of production.
>
> Pete, wa2cwa
>
> On Wed, 14 Oct 2009 17:32:44 -0000 "w5rkl" <w5rkl@...<w5rkl%40yahoo.com>>
> writes:
> > Chris,
> >
> > I could be wrong but I believe the TS-830M was not sold in the U.S.
> > Therefore, if that's true then I would suspect the "M" model may
> > have had its own serial numbers. Again, I could be wrong.
> >
> > I can't say whether the serial number can tell you when the radio
> > was manufactured.
> >
> > 73s
> > Mike W5RKL
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> "sv0xbq"
> > <alexandchrisp@...> wrote:
> > >
> > > Can anyone tell me, did the TS-830M sets have there own range of
> > serial numbers or did they fall in with the TS-830S sets.
> > > I've just picked up a TS-830M Serial Number 1080840. Can I tell
> > from this when it was made?
> > >
> > > Chris
>
>

[Non-text portions of this message have been removed]

22932. Re: Source for Caps

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-15 05:41:00 UTC
From: scott10k
Topic: 22908 Message: 22932

Agreed-I checked in their catalog and Rf Parts have some disc type high voltage caps for linear amps, etc.
phone 800-737-2787
www.rfparts.com
73s, Scott, N6CIC

--- In TS-520_820_530_830@yahoogroups.com, Don Thomas <satranger1@...> wrote:
>
> Another place to look is RF Parts.
>
> Don
>
> --- On Wed, 10/14/09, n6wk_skcc3 <n6wk@...> wrote:
>
>
> From: n6wk_skcc3 <n6wk@...>
> Subject: [TS-520_820_530_830] Source for Caps
> To: TS-520_820_530_830@yahoogroups.com
> Date: Wednesday, October 14, 2009, 11:25 AM
>
>
>
>
>
>
> Anyone have a good source for HV caps? I mean caps like 100pf @ 5KV 200pf @5kv 1000pf @ 5kv or similar?
> I am not looking for Doorknob type. I am looking for the Disk type.
> I searched on Newark and Digi-key, but have had no luck unless I am searching wrong somehow.
> thanks,
> Gordon
>
>
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>
> [Non-text portions of this message have been removed]
>

22933. Re: [TS-520_820_530_830] TS 520 Wire Wrap Pins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-15 13:08:12 UTC
From: Jim Stanicek
Topic: 22930 Message: 22933

In general, wire wrap connections are as good as, or perhaps even better than solder connections ! Bell labs (Western Electric) used wire wrap on all their office equipment, and a lot of that stuff was replaced many years later, in perfect functioning order!

We used to use a "pull test" on the connections to see if they were secure, or not. This consisted of a spring loaded device that had a small claw that you hooked behind the coil of wire. If you could pull so many ounces without the coil slipping, it was considered to be a good connection, that would probably last the life of the device.

Any connection that slipped, was repaired by soldering over the coil. But unless your radio has badly formed coils (appear to be loose, overlapping coils, etc.) I wouldn't worry about them as such!

That was the Western Electric way, and Kenwood might have done it differently. But read the paragraph above.

Hope this answers your question.

73, Jim AG3Y
----- Original Message -----
From: RipV
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, October 15, 2009 12:19 AM
Subject: [TS-520_820_530_830] TS 520 Wire Wrap Pins

I recently picked up a eBay TS-520 "Technician Special"

Initially no transmit and not much receive either. After a bath of contact cleaner and some basic adjustments I get RF out but receive still seems low. I also do not have any WWV. Marker works but S meter does not ever indicate a signal. I zeroed the meter and played with S meter gain adjust to no avail.

OK, here is my question. Are there any chronic problems with the wire wrap connections? Other that a wire fall off are they known for bad connections or corrosion problems?

I am getting ready to dig in and start signal tracing and I don't want to waste time looking for hidden non problems.

Thank you in advance.

Rip V W

[Non-text portions of this message have been removed]

22934. trans/recieve relay

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-15 08:51:11 UTC
From: chuck_meilicke
Topic: 22934 Message: 22934

Wondering where i can find a nos relay for an 820s kenwood.Finally got this beast working right except for this.I have tried to clean and lightly burnish the old one but it is still flaky...thanks chuck...kb9mvw

22935. turning power down

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-15 09:06:15 UTC
From: chuck_meilicke
Topic: 22935 Message: 22935

Last but not least when turning down the drive to power an amp..can i just turn the drive knob down or the load knob down...thanks again chuck

22936. RE: [TS-520_820_530_830] turning power down

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-15 16:32:29 UTC
From: Greg Anders
Topic: 22935 Message: 22936

1. Don't fully load the finals to max power. Leave the load at minimum and just dip the plate (with fully peaked drive).

2. See what your get for power in CW position. If you need to reduce it more you can certainly de-tune the drive/preselector slightly. However, be aware you are also desensitizing your receiver when you do this because the transmitter drive tuning and receiver coils in the front-end are ganged together and tuned in tandem.

3. If you have a linear that needs lower drive you will have to consider lowering the screen voltage on the Kenwood 6146's OR go into the rig and detune/unpeak a coil in the transmit mixer or driver circuit coils. But either of these solutions would dicatate that you would never be able to get 100W from the radio in cases where you want to run barefoot.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of chuck_meilicke
Sent: Thursday, October 15, 2009 2:06 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] turning power down

Last but not least when turning down the drive to power an amp..can i just turn the drive knob down or the load knob down...thanks again chuck

[Non-text portions of this message have been removed]

22937. Re: [TS-520_820_530_830] turning power down

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-15 17:16:26 UTC
From: pmarkavage
Topic: 22935 Message: 22937

You should never de-tune the exciter to drive an amplifier. Use a 3db or
6 db resistive pad if the amplifier does not require much drive.
Pete, wa2cwa

On Thu, 15 Oct 2009 09:06:15 -0000 "chuck_meilicke"
<chuck_meilicke@...> writes:
> Last but not least when turning down the drive to power an amp..can i
> just turn the drive knob down or the load knob down...thanks again
> chuck

22938. Re: [TS-520_820_530_830] Re: Mic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-15 19:25:03 UTC
From: Dave ve3wej
Topic: 734 Message: 22938

you forgot to mention the which radio, but most the kenwood hybrids are HIGH impedence, not low as the d104's mostly are....

From: "martin" <kb0hae@...>
Sent: Wednesday, October 14, 2009 8:08 PM
To: <TS-520_820_530_830@yahoogroups.com>
Subject: Re: [TS-520_820_530_830] Re: Mic

> Hi Tom. The D-104 should not squeal! It may need to be rewired
> inside the base to work properly on the 4 pin Kenwood radios. They
> require that the PTT circuit be totally separate from the audio
> shield. You may have to change the wiring inside the base of the mic.
> It is OK for the mic wire to be connected all the time. In fact, it
> has to be if you ever would want to use VOX (I do not recommend using
> VOX at all).The PTT switch in the mic has to connect pins 2 and 3 on
> the mic plug, without either of these wires being connected to the
> audio shield.
>
> The D-104 mics were made for CB radios, and they needed to be wired
> differently.
>
> Another issue with the amplified D-104 mics is that you need a quiet
> room to use them. I have found that even with the gain control on the
> mic almost shut off, they pick up thew slightest noise in the room.
> While the D-104 will work if wired correctly, I would recommend
> selling it, and getting a more suitable mic. I would recommend a
> Kenwood MC-35S hand mic, or an MC-50 desk mic. Pretty much any high
> impedance desk or hand mic should work though.
>
> TTYL
>
> Tom Peterson wrote:
>> I've got one of the old D-104 chicken chokers but while I used the heck
>> out of one like in on CB back in the late 70's early 80's, I just can't
>> quite get it adjusted to a point that I like without a squeal on the
>> transmitted audio.
>>
>
> --
> CUL8R
>
> KBOHAE kb0hae@... Martin Campbell
>
> A Satisfied Sidux Linux user! To get Sidux go to:

> www.sidux.com/index.html
> "Protect your digital freedom and privacy, eliminate DRM, learn more
> at http://www.defectivebydesign.org/what_is_drm"
>
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> ------------------------------------
>
> Yahoo! Groups Links
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>
>

22939. Re: TS 520 Wire Wrap Pins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-15 19:05:17 UTC
From: RipV
Topic: 22930 Message: 22939

Thanks for the response Jim.

I figured that was the case. I used to Work for Honeywell in the Commercial aircraft division. We had a lot of wire wrap in several Flight computers over the years and the only problems we had was from boxes exposed to the sloppy waste handlers drippings. We did see a bit of broken wires but pretty much that was all.

I was asking the question as I had heard from several sources saying that the wire wrap was the root of all evil that lurks inside. I just wanted some real users opinions as I think these sources are want to be techs.

Thanks again.

--- In TS-520_820_530_830@yahoogroups.com, "RipV" <ripvw01@...> wrote:
>
> I recently picked up a eBay TS-520 "Technician Special"
>
> Initially no transmit and not much receive either. After a bath of contact cleaner and some basic adjustments I get RF out but receive still seems low. I also do not have any WWV. Marker works but S meter does not ever indicate a signal. I zeroed the meter and played with S meter gain adjust to no avail.
>
> OK, here is my question. Are there any chronic problems with the wire wrap connections? Other that a wire fall off are they known for bad connections or corrosion problems?
>
> I am getting ready to dig in and start signal tracing and I don't want to waste time looking for hidden non problems.
>
> Thank you in advance.
>
> Rip V W
>

22940. Re: [TS-520_820_530_830] Re: Mic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-15 19:39:50 UTC
From: Tom Peterson
Topic: 734 Message: 22940

520SE.

Dave ve3wej wrote:
>
>
> you forgot to mention the which radio, but most the kenwood hybrids
> are HIGH
> impedence, not low as the d104's mostly are....
>

22941. RE: [TS-520_820_530_830] Re: TS 520 Wire Wrap Pins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-15 20:26:25 UTC
From: Greg Anders
Topic: 22930 Message: 22941

Long long ago Western Electric did a study on the types of connections used for wires in communication equipment. The conclusion was this: a properly installed 6 turn wire wrap connection was superior to a three turn hand wired connection that also was soldered. For longevity Western Electric used mostly wire wrap in the telephone equipment they manufactured for the Bell system. Their Quality standard was set up by the famous Mr. Demming (who built Japan's manufacturing back up in post-WWII era). Mr. Demming had WE setting targets of 40 yr life expectancy for telephone gear.

FYI,

Greg
kG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of RipV
Sent: Thursday, October 15, 2009 12:05 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS 520 Wire Wrap Pins

Thanks for the response Jim.

I figured that was the case. I used to Work for Honeywell in the Commercial aircraft division. We had a lot of wire wrap in several Flight computers over the years and the only problems we had was from boxes exposed to the sloppy waste handlers drippings. We did see a bit of broken wires but pretty much that was all.

I was asking the question as I had heard from several sources saying that the wire wrap was the root of all evil that lurks inside. I just wanted some real users opinions as I think these sources are want to be techs.

Thanks again.

--- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "RipV" <ripvw01@...> wrote:
>
> I recently picked up a eBay TS-520 "Technician Special"
>
> Initially no transmit and not much receive either. After a bath of contact cleaner and some basic adjustments I get RF out but receive still seems low. I also do not have any WWV. Marker works but S meter does not ever indicate a signal. I zeroed the meter and played with S meter gain adjust to no avail.
>
> OK, here is my question. Are there any chronic problems with the wire wrap connections? Other that a wire fall off are they known for bad connections or corrosion problems?
>
> I am getting ready to dig in and start signal tracing and I don't want to waste time looking for hidden non problems.

>
> Thank you in advance.
>
> Rip V W
>

[Non-text portions of this message have been removed]

22942. RE: [TS-520_820_530_830] turning power down

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-15 20:58:40 UTC
From: Gordon JC Pearce
Topic: 22935 Message: 22942

On Thu, 2009-10-15 at 09:32 -0700, Greg Anders wrote:

> 3. If you have a linear that needs lower drive you will have to
> consider lowering the screen voltage on the Kenwood 6146's OR go into
> the rig and detune/unpeak a coil in the transmit mixer or driver
> circuit coils. But either of these solutions would dicatate that you
> would never be able to get 100W from the radio in cases where you want
> to run barefoot.

You could also do the ALC bias trick to reduce the power. I did it to
get 10W out when I had my MM3 callsign, and it worked really rather
well.

Gordon MM0YEQ

22943. RE: [TS-520_820_530_830] turning power down

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-15 21:04:27 UTC
From: Greg Anders
Topic: 22935 Message: 22943

Hi Gordon,

I agree, that would work too. I kinda dislike the screen grid trick because 6146’s are designed to be most-linear with full screen voltage. Reducing it a sizeable amount can introduce
Increases in IMD and the like.

Some one suggested a 3 or 6db pad. However, since this is a transceiver you would have to put it in line only for the transmitter or you would lose receive signal strength as well.

Another way would be to go in an detune or un-peak a transformer that is located in the transmit signal path only. Somewhere like on the output of a transmit only mixer. That would in effect reduce drive to the finals.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Gordon JC Pearce
Sent: Thursday, October 15, 2009 1:59 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: RE: [TS-520_820_530_830] turning power down

On Thu, 2009-10-15 at 09:32 -0700, Greg Anders wrote:

> 3. If you have a linear that needs lower drive you will have to
> consider lowering the screen voltage on the Kenwood 6146's OR go into
> the rig and detune/unpeak a coil in the transmit mixer or driver
> circuit coils. But either of these solutions would dicatate that you
> would never be able to get 100W from the radio in cases where you want
> to run barefoot.

You could also do the ALC bias trick to reduce the power. I did it to
get 10W out when I had my MM3 callsign, and it worked really rather
well.

Gordon MM0YEQ

[Non-text portions of this message have been removed]

22944. Re: [TS-520_820_530_830] turning power down

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-16 00:21:51 UTC
From: John Davidson
Topic: 22935 Message: 22944

On my TS520 , on CW you can back of f the Carrier knob for low power output. This is useless on SSB mode.
. The Drive control is a tuning capacitor that is ganged to the reciever front end tuning also, it has to stay at the peak setting.
If you detune the loading capacitor the plate tuning is affected and has to get re-dipped for min plate current.
I have run QRP down to half watt by backing down the carrier knob and worked 700 miles on 40M with 0.75 watts

--- On Thu, 10/15/09, chuck_meilicke <chuck_meilicke@...> wrote:

From: chuck_meilicke <chuck_meilicke@...>
Subject: [TS-520_820_530_830] turning power down
To: TS-520_820_530_830@yahoogroups.com
Date: Thursday, October 15, 2009, 5:06 AM

Last but not least when turning down the drive to power an amp..can i just turn the drive knob down or the load knob down...thanks again chuck

[Non-text portions of this message have been removed]

22945. Two TS-520: Should I part one out or keep it as spare rig?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-16 00:16:30 UTC
From: loewensteijn@rocketmail.com
Topic: 22945 Message: 22945

I picked up a second TS-520 2 weeks after picking up the first one (both are in sad conditions). I will be restoring one of them (obviously the one that it is in the best condition) b ut am sitting on the fence with what to do with the second one. Should I part it out or keep it as a parts rig? Once going how likely do I want more parts if I have got spare tubes?

Thanks for your input,
Marinus, ZL2ML

22946. Re: [TS-520_820_530_830] Two TS-520: Should I part one out or keep it as spare rig?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-16 00:31:59 UTC
From: Don Thomas
Topic: 22945 Message: 22946

Never hurts to have a parts unit should something quits working.

Don T.

--- On Thu, 10/15/09, loewensteijn@... <zl2ml@...> wrote:

From: loewensteijn@... <zl2ml@...>
Subject: [TS-520_820_530_830] Two TS-520: Should I part one out or keep it as spare rig?
To: TS-520_820_530_830@yahoogroups.com
Date: Thursday, October 15, 2009, 7:16 PM

I picked up a second TS-520 2 weeks after picking up the first one (both are in sad conditions). I will be restoring one of them (obviously the one that it is in the best condition) b ut am sitting on the fence with what to do with the second one. Should I part it out or keep it as a parts rig? Once going how likely do I want more parts if I have got spare tubes?

Thanks for your input,
Marinus, ZL2ML

[Non-text portions of this message have been removed]

22947. Re: [TS-520_820_530_830] Two TS-520: Should I part one out or keep it as spare rig?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-16 00:41:47 UTC
From: Charlie , W5COV
Topic: 22945 Message: 22947

What exactly is in sad condition on each of them ?

It is nice to have a parts rig , but my concern would be that taking say a board out of the parts 520 , in unknown condition and putting it in the "good" 520 , could damage other things in the "good" 520 , if there is a fault on the parts unit board .

Charlie , W5COV

[Non-text portions of this message have been removed]

22948. Re: Two TS-520: Should I part one out or keep it as spare rig?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-16 01:04:05 UTC
From: swanradios
Topic: 22945 Message: 22948

if you part one out would be willing to purchase a cw filter from ya if there is an extra thanks
--- In TS-520_820_530_830@yahoogroups.com, "loewensteijn@..." <zl2ml@...> wrote:
>
> I picked up a second TS-520 2 weeks after picking up the first one (both are in sad conditions). I will be restoring one of them (obviously the one that it is in the best condition) b ut am sitting on the fence with what to do with the second one. Should I part it out or keep it as a parts rig? Once going how likely do I want more parts if I have got spare tubes?
>
> Thanks for your input,
> Marinus, ZL2ML
>

22949. Neutralize tubes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-16 02:57:37 UTC
From: rylenfield
Topic: 22949 Message: 22949

I have a 520 that was sent to me with the tubes removed. Since it worked well before I assume that it had been neutralized. The tubes were packed separately so I do not know which of the power tubes went into which socket. I have a 50/50 chance here. Do I need to neutralize?

22950. tx/rx

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-16 02:43:26 UTC
From: chuck_meilicke
Topic: 22950 Message: 22950

looking for a relay for a kenwood ts 820s.Tried to clean mine up but it is gone with the wind..any suggestions...chuck tx/rx relay

22951. Driver Tubes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-16 03:47:24 UTC
From: Jerry Keller
Topic: 22951 Message: 22951

For the driver tube in a TS-520S, is anyone using an 8077 / 7054 to replace the 12BY7 ? Comments?

73, Jerry K3BZ

[Non-text portions of this message have been removed]

22952. Re: Neutralize tubes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-16 03:53:18 UTC
From: n6wk_skcc3
Topic: 22949 Message: 22952

I would install the tubes and then check to see if the Maximum RF output matches the plate current DIP. If it does, no problem. If it does not, swap the tube positions and check it again. I recommend doing the checking on 28.800 though.

73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "rylenfield" <kmx888@...> wrote:
>
> I have a 520 that was sent to me with the tubes removed. Since it worked well before I assume that it had been neutralized. The tubes were packed separately so I do not know which of the power tubes went into which socket. I have a 50/50 chance here. Do I need to neutralize?
>

22953. Re: Neutralize tubes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-16 03:41:31 UTC
From: ah6rr1
Topic: 22949 Message: 22953

Since they are the tubes that were in the radio I would not worry about it. Now if you install new tubes then that is time to neutralize.
73
Roland AH6RR

--- In TS-520_820_530_830@yahoogroups.com, "rylenfield" <kmx888@...> wrote:
>
> I have a 520 that was sent to me with the tubes removed. Since it worked well before I assume that it had been neutralized. The tubes were packed separately so I do not know which of the power tubes went into which socket. I have a 50/50 chance here. Do I need to neutralize?
>

22954. Re: [TS-520_820_530_830] Re: TS 520 Wire Wrap Pins

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-16 03:51:59 UTC
From: Chris and Alex
Topic: 22930 Message: 22954

One of the best tips that I've picked up from the site is to loosen and then retighten all of the circuit board mounting screws otherwise you can spend hours chasing strange faults.
Chris
SV0XBQ/9

2009/10/15 RipV <ripvw01@...>

>
>
> Thanks for the response Jim.
>
> I figured that was the case. I used to Work for Honeywell in the Commercial
> aircraft division. We had a lot of wire wrap in several Flight computers
> over the years and the only problems we had was from boxes exposed to the
> sloppy waste handlers drippings. We did see a bit of broken wires but pretty
> much that was all.
>
> I was asking the question as I had heard from several sources saying that
> the wire wrap was the root of all evil that lurks inside. I just wanted some
> real users opinions as I think these sources are want to be techs.
>
> Thanks again.
>
> --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> "RipV" <ripvw01@...> wrote:
> >
> > I recently picked up a eBay TS-520 "Technician Special"
> >
> > Initially no transmit and not much receive either. After a bath of
> contact cleaner and some basic adjustments I get RF out but receive still
> seems low. I also do not have any WWV. Marker works but S meter does not
> ever indicate a signal. I zeroed the meter and played with S meter gain
> adjust to no avail.
> >
> > OK, here is my question. Are there any chronic problems with the wire
> wrap connections? Other that a wire fall off are they known for bad
> connections or corrosion problems?
> >
> > I am getting ready to dig in and start signal tracing and I don't want to
> waste time looking for hidden non problems.
> >
> > Thank you in advance.
> >
> > Rip V W

> >
>
>
>

[Non-text portions of this message have been removed]

22955. Re: [TS-520_820_530_830] tx/rx

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-16 05:10:11 UTC
From: Lou Blasco
Topic: 22950 Message: 22955

Google K4EAA, he will have one.

Lou
VK3ALB

At 01:43 PM 16/10/2009, you wrote:
>looking for a relay for a kenwood ts 820s.Tried to clean mine up but
>it is gone with the wind..any suggestions...chuck tx/rx relay

22956. Re: tx/rx

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-16 05:22:19 UTC
From: chuck_meilicke
Topic: 22950 Message: 22956

the relay is all plastic the number on it is mhs4zpg-ua I looked on k4eaa site and did not see this relay there..thaks chuck

--- In TS-520_820_530_830@yahoogroups.com, Lou Blasco <radio@...> wrote:
>
> Google K4EAA, he will have one.
>
> Lou
> VK3ALB
>
> At 01:43 PM 16/10/2009, you wrote:
> >looking for a relay for a kenwood ts 820s.Tried to clean mine up but
> >it is gone with the wind..any suggestions...chuck tx/rx relay
>

22957. Re: [TS-520_820_530_830] tx/rx

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-16 14:37:45 UTC
From: Gene Henderson
Topic: 22950 Message: 22957

Chuck , I ordered some from this place
Ken's Electronic Parts
2825 Lake Street
Kalamazoo, MI 49048 Just Google the name think they were around 16-18 dollars

73
Gene WB9HLA

----- Original Message -----
From: chuck_meilicke
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, October 15, 2009 22:43
Subject: [TS-520_820_530_830] tx/rx

looking for a relay for a kenwood ts 820s.Tried to clean mine up but it is gone with the wind..any suggestions...chuck tx/rx relay

[Non-text portions of this message have been removed]

22958. Re: [TS-520_820_530_830] Re: tx/rx

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-16 22:11:47 UTC
From: Dave ve3wej
Topic: 22950 Message: 22958

I think you have to go by the Kenwood part number, not the manufacturer's number

---

From: "chuck_meilicke" <chuck_meilicke@...>
Sent: Friday, October 16, 2009 1:22 AM
To: <TS-520_820_530_830@yahoogroups.com>
Subject: [TS-520_820_530_830] Re: tx/rx

> the relay is all plastic the number on it is mhs4zpg-ua I looked on k4eaa
> site and did not see this relay there..thaks chuck
>
> --- In TS-520_820_530_830@yahoogroups.com, Lou Blasco <radio@...> wrote:
>>
>> Google K4EAA, he will have one.
>>
>> Lou
>> VK3ALB
>>
>> At 01:43 PM 16/10/2009, you wrote:
>> >looking for a relay for a kenwood ts 820s.Tried to clean mine up but
>> >it is gone with the wind..any suggestions...chuck tx/rx relay
>>
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> ------------------------------------
>
> Yahoo! Groups Links
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>
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22959. Re: D-104 mis-statements

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-16 22:58:57 UTC
From: john
Topic: 22959 Message: 22959

> you forgot to mention the which radio, but most the kenwood hybrids
> are HIGH
> impedence, not low as the d104's mostly are....

D-104s are crystal microphones of extremely high impedance. (Rochelle salt crystals)

"The D-104 mics were made for CB radios, and they needed to be wired
> differently."

D-104s were invented in the 1930s for amateur transmitters, well before the birth of CB radios.

John K5MO

John K5MO

22960. Re: [TS-520_820_530_830] Neutralize tubes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-16 23:11:40 UTC
From: John Davidson
Topic: 22949 Message: 22960

The tubes are connected in parallel so there should be no diff what socket what tube goes into. Should not need any adjustment for neutralization if everything is the same (no different tubes used).

--- On Thu, 10/15/09, rylenfield <kmx888@...> wrote:

From: rylenfield <kmx888@...>
Subject: [TS-520_820_530_830] Neutralize tubes
To: TS-520_820_530_830@yahoogroups.com
Date: Thursday, October 15, 2009, 10:57 PM

I have a 520 that was sent to me with the tubes removed. Since it worked well before I assume that it had been neutralized. The tubes were packed separately so I do not know which of the power tubes went into which socket. I have a 50/50 chance here. Do I need to neutralize?

[Non-text portions of this message have been removed]

22961. Re: tx/rx

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-17 02:44:58 UTC
From: chuck_meilicke
Topic: 22950 Message: 22961

Thanks Gene got the message il give that guy a try..Im a night owl here so my messages come in at goofy hours...thanks again..chuck kb9mvw

--- In TS-520_820_530_830@yahoogroups.com, "Gene Henderson" <wb9hla@...> wrote:
>
> Chuck , I ordered some from this place
> Ken's Electronic Parts
> 2825 Lake Street
> Kalamazoo, MI 49048 Just Google the name think they were around 16-18 dollars
>
> 73
> Gene WB9HLA
>
>
> ----- Original Message -----
> From: chuck_meilicke
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, October 15, 2009 22:43
> Subject: [TS-520_820_530_830] tx/rx
>
>
> looking for a relay for a kenwood ts 820s.Tried to clean mine up but it is gone with the wind..any suggestions...chuck tx/rx relay
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

22962. RE: [TS-520_820_530_830] turning power down

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-17 07:38:08 UTC
From: Gordon JC Pearce
Topic: 22935 Message: 22962

On Thu, 2009-10-15 at 14:04 -0700, Greg Anders wrote:
> Hi Gordon,
>
> I agree, that would work too. I kinda dislike the screen grid trick
> because 6146's are designed to be most-linear with full screen
> voltage. Reducing it a sizeable amount can introduce
> Increases in IMD and the like.

I'm not talking about the screen grid trick, although that does work.
No, the ALC trick is described here:

http://www.radiomods.co.nz/kenwood/kenwoodts520.html

about 3/4 of the way down the page under the title "Kenwood TS-520S for
QRP". It would probably work well for reducing the output power to
drive a transverter, too.

Gordon MM0YEQ

22963. Re: [TS-520_820_530_830] Re: D-104 mis-statements

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-17 13:57:51 UTC
From: Scott Litz
Topic: 22959 Message: 22963

JOHN MOST OF THE HYBRIDS WERE 500 TO 600 OHMS ON THE AUDIO CIRCUIT AND A D-104 MATCHED THAT . ASTATIC SOLD MICROPHONES FOR AMATUER RADIOS BEFORE CITIZENS BAND RADIO EVER EXISTED. SADLY MANY PEOPLE ARE IGNORANT OF THE FACTS ABOUT THEM. TOO MANY AMATUERS AREN'T AS TECH SAVVY AS THEY SHOULD BE. HAVE A GREAT DAY. KC0ROM SCOTT

--- On Fri, 10/16/09, john <johnmb@...> wrote:

> From: john <johnmb@...>
> Subject: [TS-520_820_530_830] Re: D-104 mis-statements
> To: TS-520_820_530_830@yahoogroups.com
> Date: Friday, October 16, 2009, 5:58 PM
>
> > you forgot to mention the which radio, but most the
> kenwood hybrids
> > are HIGH
> > impedence, not low as the d104's mostly are....
>
> D-104s are crystal microphones of extremely high impedance.
> (Rochelle salt
> crystals)
>
> "The D-104 mics were made for CB radios, and they needed to
> be wired
> > differently."
>
> D-104s were invented in the 1930s for amateur transmitters,
> well before the
> birth of CB radios.
>
> John K5MO
>
>
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>
> John K5MO
>
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> ------------------------------------
>
> Yahoo! Groups Links
>
>
>   mailto:TS-520_820_530_830-fullfeatured@yahoogroups.com
>

>
>

22964. Re: [TS-520_820_530_830] Re: D-104 mis-statements

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-17 15:29:04 UTC
From: Gordon JC Pearce
Topic: 22959 Message: 22964

On Sat, 2009-10-17 at 06:57 -0700, Scott Litz wrote:
> TOO MANY AMATUERS AREN'T AS TECH SAVVY AS THEY SHOULD BE. HAVE A
> GREAT DAY. KC0ROM SCOTT

But you'd be amazed how many of us know about caps lock.

Gordon MM0YEQ

22965. Re: [TS-520_820_530_830] Re: D-104 mis-statements

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-17 15:29:26 UTC
From: martin
Topic: 22959 Message: 22965

Hi John. I was speaking of the amplified D-104 mics made in the 70s and 80s. Some of them need to be rewired to separate the mic shield from the PTT circuit to work properly on the 4 pin Kenwood radios. I think it depends on the exact base. Myself I prefer to use un-amplified mics for Amateur Radios.

I didn't know that D-104 mics were made that long ago, although I knew that Astatic mics had been around before CB radio. Most CB radio mics were wired to work differently (as far as PTT is concerned) than Amateur Radios. I don't know about nwere CB radios, as I got away from CB radio a few years after some brands switched from 4 pin to 5 pin mic plugs and wiring.

BTW, I enjoyed CB radio until too many jerks (in the local area) basically ran all of the folks that I talked to off the radio. The people I talked to just got tired of not being able to have a decent conversation without the jerks butting in all the time with stupid or malicious remarks etc...

In a way its a shame. I probably would have gotten my Amateur Radio license anyway, but I guess the situation motivated me to get it sooner.

TTYL

john wrote:
> > you forgot to mention the which radio, but most the kenwood hybrids
> > are HIGH
> > impedence, not low as the d104's mostly are....
>
> D-104s are crystal microphones of extremely high impedance. (Rochelle salt
> crystals)
>
> "The D-104 mics were made for CB radios, and they needed to be wired
> > differently."
>
> D-104s were invented in the 1930s for amateur transmitters, well before the
> birth of CB radios.
>
> John K5MO
>
>
>
>
> John K5MO
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

22966. Re: D-104 mis-statements

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-17 14:36:50 UTC
From: SkyHawk
Topic: 22959 Message: 22966

Here's some pretty interesting info on the D-104 by N9WB

http://www.qsl.net/hcara/D-104.htm

73's

Rick
KC5UIW

--- In TS-520_820_530_830@yahoogroups.com, Scott Litz <electronics4002@...> wrote:
>
> JOHN MOST OF THE HYBRIDS WERE 500 TO 600 OHMS ON THE AUDIO CIRCUIT AND A D-104 MATCHED THAT . ASTATIC SOLD MICROPHONES FOR AMATUER RADIOS BEFORE CITIZENS BAND RADIO EVER EXISTED. SADLY MANY PEOPLE ARE IGNORANT OF THE FACTS ABOUT THEM. TOO MANY AMATUERS AREN'T AS TECH SAVVY AS THEY SHOULD BE. HAVE A GREAT DAY. KC0ROM SCOTT
>
> --- On Fri, 10/16/09, john <johnmb@...> wrote:
>
> > From: john <johnmb@...>
> > Subject: [TS-520_820_530_830] Re: D-104 mis-statements
> > To: TS-520_820_530_830@yahoogroups.com
> > Date: Friday, October 16, 2009, 5:58 PM
> >
> > > you forgot to mention the which radio, but most the
> > kenwood hybrids
> > > are HIGH
> > > impedence, not low as the d104's mostly are....
> >
> > D-104s are crystal microphones of extremely high impedance.
> > (Rochelle salt
> > crystals)
> >
> > "The D-104 mics were made for CB radios, and they needed to
> > be wired
> > > differently."
> >
> > D-104s were invented in the 1930s for amateur transmitters,
> > well before the
> > birth of CB radios.
> >
> > John K5MO
> >
> >
> >
> >
> > John K5MO

> >
> >

22967. CBishness, was Re: [TS-520_820_530_830] Re: D-104 mis-statements

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-17 16:00:21 UTC
From: Gordon JC Pearce
Topic: 22959 Message: 22967

On Sat, 2009-10-17 at 10:29 -0500, martin wrote:

> BTW, I enjoyed CB radio until too many jerks (in the local area)
> basically ran all of the folks that I talked to off the radio. The
> people I talked to just got tired of not being able to have a decent
> conversation without the jerks butting in all the time with stupid or
> malicious remarks etc...

We have a lovely situation right now where one of the local worthies thinks that anyone who got their licence this century shouldn't be allowed on the air. To that end he keys up over anyone he doesn't know or like the sound of, mostly on 2m (and at that, mostly on the local repeater). What has become particularly irritating is that he's discovered he can do it on 14MHz knocking off the MM3s who are getting into PSK31, and he's started annoying the bucketmouths on 27MHz who of course pop up and cause trouble on the repeater!

People will be (untranslatable Gaelic word) no matter where they are if they have relative anonymity. It's unfortunate that people who should know better do it, but there you are. Some people are just dicks.

I liked CB better when it was still illegal. The old UK channels are going to be going away and replaced by "community broadcasting" on 27MHz similar to what they have in Australia. I wonder what the bucketmouths will do then, when they discover that Ofcom take people stepping on their paying customers very seriously...

Gordon MM0YEQ

22968. Re: CBishness, was Re: [TS-520_820_530_830] Re: D-104 mis-statements

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-17 16:21:49 UTC
From: Don Thomas
Topic: 22959 Message: 22968

Sounds like time for a "fox hunt" to ID his location and inform whoever manages your amateur priviledges there. Maybe he needs a visit from your FCC type licensing personnel. Audio recording of interference and date/times may help them take action.

Don T.

--- On Sat, 10/17/09, Gordon JC Pearce <gordon@...> wrote:

From: Gordon JC Pearce <gordon@...>
Subject: CBishness, was Re: [TS-520_820_530_830] Re: D-104 mis-statements
To: TS-520_820_530_830@yahoogroups.com
Date: Saturday, October 17, 2009, 11:00 AM

On Sat, 2009-10-17 at 10:29 -0500, martin wrote:

> BTW, I enjoyed CB radio until too many jerks (in the local area)
> basically ran all of the folks that I talked to off the radio. The
> people I talked to just got tired of not being able to have a decent
> conversation without the jerks butting in all the time with stupid or
> malicious remarks etc...

We have a lovely situation right now where one of the local worthies thinks that anyone who got their licence this century shouldn't be allowed on the air. To that end he keys up over anyone he doesn't know or like the sound of, mostly on 2m (and at that, mostly on the local repeater). What has become particularly irritating is that he's discovered he can do it on 14MHz knocking off the MM3s who are getting into PSK31, and he's started annoying the bucketmouths on 27MHz who of course pop up and cause trouble on the repeater!

People will be (untranslatable Gaelic word) no matter where they are if they have relative anonymity. It's unfortunate that people who should know better do it, but there you are. Some people are just dicks.

I liked CB better when it was still illegal. The old UK channels are going to be going away and replaced by "community broadcasting" on 27MHz similar to what they have in Australia. I wonder what the bucketmouths will do then, when they discover that Ofcom take people stepping on their paying customers very seriously...

Gordon MM0YEQ

[Non-text portions of this message have been removed]

22969. Re: CBishness, was Re: [TS-520_820_530_830] Re: D-104 mis-statements

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-17 16:32:54 UTC
From: Gordon JC Pearce
Topic: 22959 Message: 22969

On Sat, 2009-10-17 at 09:21 -0700, Don Thomas wrote:
> Sounds like time for a "fox hunt" to ID his location and inform
> whoever manages your amateur priviledges there. Maybe he needs a
> visit from your FCC type licensing personnel. Audio recording of
> interference and date/times may help them take action.

Oh, he's well known both to the amateur community and to Ofcom. They're just not terribly inclined to do anything about it. I expect that will change when he starts dicking about on 70cm when that gets "borrowed" for the 2012 Olympics...

Gordon MM0YEQ

22970. CBishness, was Re: [TS-520_820_530_830] Re: D-104 mis-statements

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-17 16:38:34 UTC
From: ah6rr1
Topic: 22959 Message: 22970

Either that or once his location is found "Stick a pin in his coax" Ten fer over and out. Im gald we dont have any of them types here. And my Kenwood's are low inpedance. By the way Heil makes a great conversion kit for the D104 that has a HC-5 element and they soung fantastic.
73
Roland AH6RR

--- In TS-520_820_530_830@yahoogroups.com, Don Thomas <satranger1@...> wrote:
>
> Sounds like time for a "fox hunt" to ID his location and inform whoever manages your amateur priviledges there. Maybe he needs a visit from your FCC type licensing personnel. Audio recording of interference and date/times may help them take action.
>
> Don T.
>
> --- On Sat, 10/17/09, Gordon JC Pearce <gordon@...> wrote:
>
>
> From: Gordon JC Pearce <gordon@...>
> Subject: CBishness, was Re: [TS-520_820_530_830] Re: D-104 mis-statements
> To: TS-520_820_530_830@yahoogroups.com
> Date: Saturday, October 17, 2009, 11:00 AM
>
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>
> On Sat, 2009-10-17 at 10:29 -0500, martin wrote:
>
> > BTW, I enjoyed CB radio until too many jerks (in the local area)
> > basically ran all of the folks that I talked to off the radio. The
> > people I talked to just got tired of not being able to have a decent
> > conversation without the jerks butting in all the time with stupid or
> > malicious remarks etc...
>
> We have a lovely situation right now where one of the local worthies
> thinks that anyone who got their licence this century shouldn't be
> allowed on the air. To that end he keys up over anyone he doesn't know
> or like the sound of, mostly on 2m (and at that, mostly on the local
> repeater). What has become particularly irritating is that he's
> discovered he can do it on 14MHz knocking off the MM3s who are getting
> into PSK31, and he's started annoying the bucketmouths on 27MHz who of
> course pop up and cause trouble on the repeater!
>

> People will be (untranslatable Gaelic word) no matter where they are if
> they have relative anonymity. It's unfortunate that people who should
> know better do it, but there you are. Some people are just dicks.
>
> I liked CB better when it was still illegal. The old UK channels are
> going to be going away and replaced by "community broadcasting" on 27MHz
> similar to what they have in Australia. I wonder what the bucketmouths
> will do then, when they discover that Ofcom take people stepping on
> their paying customers very seriously...
>
> Gordon MM0YEQ
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> [Non-text portions of this message have been removed]
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22971. CBishness, was Re: [TS-520_820_530_830] Re: D-104 mis-statements

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-17 17:22:57 UTC
From: Harry
Topic: 22959 Message: 22971

--- I here tell that many CBer's that caused a lot of problems years ago where taken off the air with a stick pin and a magic marker!

I do remember hearing about the guy that had his gear ripped through the window by the coax with a rope and a fast moving pickup.

Harry

--- In TS-520_820_530_830@yahoogroups.com, "ah6rr1" <ah6rr@...> wrote:
>
> Either that or once his location is found "Stick a pin in his coax" Ten fer over and out.
> Im gald we dont have any of them types here. And my Kenwood's are low inpedance. By the way Heil makes a great conversion kit for the D104 that has a HC-5 element and they soung fantastic.
> 73
> Roland AH6RR
>
> --- In TS-520_820_530_830@yahoogroups.com, Don Thomas <satranger1@> wrote:
> >
> > Sounds like time for a "fox hunt" to ID his location and inform whoever manages your amateur priviledges there. Maybe he needs a visit from your FCC type licensing personnel. Audio recording of interference and date/times may help them take action.
> >
> > Don T.
> >
> > --- On Sat, 10/17/09, Gordon JC Pearce <gordon@> wrote:
> >
> >
> > From: Gordon JC Pearce <gordon@>
> > Subject: CBishness, was Re: [TS-520_820_530_830] Re: D-104 mis-statements
> > To: TS-520_820_530_830@yahoogroups.com
> > Date: Saturday, October 17, 2009, 11:00 AM
> >
> >
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> >
> >
> > On Sat, 2009-10-17 at 10:29 -0500, martin wrote:
> >
> > > BTW, I enjoyed CB radio until too many jerks (in the local area)
> > > basically ran all of the folks that I talked to off the radio. The
> > > people I talked to just got tired of not being able to have a decent
> > > conversation without the jerks butting in all the time with stupid or
> > > malicious remarks etc...
> >

> > We have a lovely situation right now where one of the local worthies
> > thinks that anyone who got their licence this century shouldn't be
> > allowed on the air. To that end he keys up over anyone he doesn't know
> > or like the sound of, mostly on 2m (and at that, mostly on the local
> > repeater). What has become particularly irritating is that he's
> > discovered he can do it on 14MHz knocking off the MM3s who are getting
> > into PSK31, and he's started annoying the bucketmouths on 27MHz who of
> > course pop up and cause trouble on the repeater!
> >
> > People will be (untranslatable Gaelic word) no matter where they are if
> > they have relative anonymity. It's unfortunate that people who should
> > know better do it, but there you are. Some people are just dicks.
> >
> > I liked CB better when it was still illegal. The old UK channels are
> > going to be going away and replaced by "community broadcasting" on 27MHz
> > similar to what they have in Australia. I wonder what the bucketmouths
> > will do then, when they discover that Ofcom take people stepping on
> > their paying customers very seriously...
> >
> > Gordon MM0YEQ
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> >
> > [Non-text portions of this message have been removed]
> >
>

22972. Re: CBishness, was Re: [TS-520_820_530_830] Re: D-104 mis-statements

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-17 17:54:13 UTC
From: Gordon JC Pearce
Topic: 22959 Message: 22972

On Sat, 2009-10-17 at 17:22 +0000, Harry wrote:
> --- I here tell that many CBer's that caused a lot of problems years ago where taken off the air with a stick pin and a magic marker!
>
> I do remember hearing about the guy that had his gear ripped through
> the window by the coax with a rope and a fast moving pickup.
>

I remember a guy back in the early 80s who used to have his CB aerial on his car, and just throw the coax in through the house window and take the CB inside with him. It worked pretty well, despite the aerial being pretty low (his house was quite high on a hill). Really well, in fact, until one day his wife called him in from the garden to quickly pop down to the corner shop (about ten miles away ;-)) for some milk...

Gordon MM0YEQ

22973. Re: [TS-520_820_530_830] Re: D-104 mis-statements

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-17 20:13:25 UTC
From: Scott Litz
Topic: 22959 Message: 22973

Sorry if the capital letters offend you sensibilities,have a good day sir.I just get annoyed when people label things such as a d-104 being a cb mike. Kc0rom 73 Scott

--- On Sat, 10/17/09, Gordon JC Pearce <gordon@...> wrote:

> From: Gordon JC Pearce <gordon@...>
> Subject: Re: [TS-520_820_530_830] Re: D-104 mis-statements
> To: TS-520_820_530_830@yahoogroups.com
> Date: Saturday, October 17, 2009, 10:29 AM
> On Sat, 2009-10-17 at 06:57 -0700,
> Scott Litz wrote:
> > TOO MANY AMATUERS AREN'T AS TECH SAVVY AS THEY
> SHOULD BE. HAVE A
> > GREAT DAY. KC0ROM   SCOTT
>
> But you'd be amazed how many of us know about caps lock.
>
> Gordon MM0YEQ
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>   mailto:TS-520_820_530_830-fullfeatured@yahoogroups.com
>
>
>

22974. CBishness, was Re: [TS-520_820_530_830] Re: D-104 mis-statements

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-17 20:45:41 UTC
From: Harry
Topic: 22959 Message: 22974

--- perptualmotion is cause and effect!

Harry

--- In TS-520_820_530_830@yahoogroups.com, Gordon JC Pearce <gordon@...> wrote:
>
> On Sat, 2009-10-17 at 17:22 +0000, Harry wrote:
> > --- I here tell that many CBer's that caused a lot of problems years ago where taken off the air with a stick pin and a magic marker!
> >
> > I do remember hearing about the guy that had his gear ripped through
> > the window by the coax with a rope and a fast moving pickup.
> >
>
> I remember a guy back in the early 80s who used to have his CB aerial on
> his car, and just throw the coax in through the house window and take
> the CB inside with him. It worked pretty well, despite the aerial being
> pretty low (his house was quite high on a hill). Really well, in fact,
> until one day his wife called him in from the garden to quickly pop down
> to the corner shop (about ten miles away ;-)) for some milk...
>
> Gordon MM0YEQ
>

22975. Re: [TS-520_820_530_830] Re: D-104 mis-statements

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-17 21:15:08 UTC
From: barrie@eos.net
Topic: 22959 Message: 22975

Well I can understand why people think the of the D104 as a CB microphone. The Golden Eagle and all of the other products that Astatic came out with in later years were aimed at the CB market.
Sent via BlackBerry from T-Mobile

-----Original Message-----
From: Scott Litz <electronics4002@...>
Date: Sat, 17 Oct 2009 13:13:25
To: <TS-520_820_530_830@yahoogroups.com>
Subject: Re: [TS-520_820_530_830] Re: D-104 mis-statements

Sorry if the capital letters offend you sensibilities,have a good day sir.I just get annoyed when people label things such as a d-104 being a cb mike. Kc0rom 73 Scott

--- On Sat, 10/17/09, Gordon JC Pearce <gordon@...> wrote:

> From: Gordon JC Pearce <gordon@...>
> Subject: Re: [TS-520_820_530_830] Re: D-104 mis-statements
> To: TS-520_820_530_830@yahoogroups.com
> Date: Saturday, October 17, 2009, 10:29 AM
> On Sat, 2009-10-17 at 06:57 -0700,
> Scott Litz wrote:
> >? TOO MANY AMATUERS AREN'T AS TECH SAVVY AS THEY
> SHOULD BE. HAVE A
> > GREAT DAY.? KC0ROM???SCOTT
>
> But you'd be amazed how many of us know about caps lock.
>
> Gordon MM0YEQ
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> ------------------------------------
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> Yahoo! Groups Links
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>
> ? ? mailto:TS-520_820_530_830-fullfeatured@yahoogroups.com
>
>
>

[Non-text portions of this message have been removed]

22976. Kenwood Restore

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-18 02:17:24 UTC
From: whiteknight926
Topic: 22976 Message: 22976

Hi all...

I am trying too remove the metal face behine the face plate on a TS-520. Pulling all the nuts off the knobs and screws from the face was the easy part but what about the switches ?? Is there any easy way to get them off the face with out un-soldering them all ??? Other then the Mic plug that usually has to be taken off and it kinda a pain but oh well..

Thanks
Dan
WB0YYE

22977. Re: D-104 mis-statements

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-18 03:13:27 UTC
From: Frank VK5KV
Topic: 22959 Message: 22977

I think from memory that Astatic aimed the Silver/Golden/Night Eagle D104 product primarily at the CB market when there were the large CB Base Stations Available. Like for instance the Browning and Lafayette's etc; The Silver/Golden/Night etc; did have the TUG8 base which included a preamp of a sorts and it does improve audio qualitys of the Mike however, this was mainly used for impedance match as we have now discovered the Standard Mike Head is High impedance (50K) or there abouts and the input to CB radios of the day was 600R hence the small circuit in the TUG8 base.
Earlier versions of the D104 were however aimed at not only the Amateur Market but also the Commercial Two Way radio market at the Time; (Astatic have been around for a while!) when a Base Station commercial radio took up half a Desk top or half a room Many circuits have been published and many articles written on how to improve it's performance, but really why bother we've only got 1.8khz worth of bandwidth on a SSB transmission and the Mike works fine for what it was designed for . I own a D104 with TUG8 base which looks great in front of my KWM2A line up, I have left it as standard, why change it apart from a resistor L network to increase impedance to back high as the Collins is high input. They are an old mike, which for nostalgia purposes look great in front of older gear. There are better things available these days but there's something about using the "Lollipop" which makes operating even more pleasurable.

Cheers,
Frank VK5KV..

--- In TS-520_820_530_830@yahoogroups.com, barrie@... wrote:
>
> Well I can understand why people think the of the D104 as a CB microphone. The Golden Eagle and all of the other products that Astatic came out with in later years were aimed at the CB market.
> Sent via BlackBerry from T-Mobile
>
> -----Original Message-----
> From: Scott Litz <electronics4002@...>
> Date: Sat, 17 Oct 2009 13:13:25
> To: <TS-520_820_530_830@yahoogroups.com>
> Subject: Re: [TS-520_820_530_830] Re: D-104 mis-statements
>
> Sorry if the capital letters offend you sensibilities,have a good day sir.I just get annoyed when people label things such as a d-104 being a cb mike. Kc0rom 73 Scott
>
> --- On Sat, 10/17/09, Gordon JC Pearce <gordon@...> wrote:
>
> > From: Gordon JC Pearce <gordon@...>
> > Subject: Re: [TS-520_820_530_830] Re: D-104 mis-statements
> > To: TS-520_820_530_830@yahoogroups.com
> > Date: Saturday, October 17, 2009, 10:29 AM
> > On Sat, 2009-10-17 at 06:57 -0700,
> > Scott Litz wrote:
> > > TOO MANY AMATUERS AREN'T AS TECH SAVVY AS THEY
> > SHOULD BE. HAVE A

> > > GREAT DAY. KC0ROM   SCOTT
> >
> > But you'd be amazed how many of us know about caps lock.
> >
> > Gordon MM0YEQ
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >   mailto:TS-520_820_530_830-fullfeatured@yahoogroups.com
> >
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>
>
> [Non-text portions of this message have been removed]
>

22978. Re: CBishness, was Re: [TS-520_820_530_830] Re: D-104 mis-statements

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-18 15:29:25 UTC
From: martin
Topic: 22959 Message: 22978

There was one particularly annoying CBer who found his antenna and coax chopped into one inch hunks and laying in his yard. He was suspected of throwing carriers and , pinning coaxes as well as being an extreme ass on the air. While I cannot condone what was done to his antenna and coax, I have to admit that he did deserve it.

Although I have no transmit capability on 11M anymore, I do listen there occasionally. At the present time, there is very little activity on 11M in this area except for truck drivers passing through on the highways. Not that I plan to ever transmit on those frequencies again.

As I stated in another message, my remarks about the amplified D-104 mics were concerning those that were intended for use on CB radios. Those seem to need the mod mentioned in another message to sound good. Otherwise, I have found that the above mentioned amplified D-104 mics roll off the base frequencies, and somewhat accentuate the high frequencies. Therefore, people with high pitched voices tended not to sound good using those D-104 mics. People with low pitched voices tended to sound ok.

Having wired a D-104 (with TUG8 amplified stand) for a friend, and tried it on his TS-180S, my TS-530S, TS-120SE, and TS-430S, I can honestly say that I like the sound of the MC-50 and even the Kenwood MC-30S, and MC-42S hand mics better. Others (who helped with on-air comparisons) agree, and several asked me (without any hints at all) if I was using a D-104. However, to each his own. Those who like the D-104 mics are welcome to use them. I prefer mics that make the person using them sound as natural as possible.

TTYL

Harry wrote:
> --- I here tell that many CBer's that caused a lot of problems
> years ago where taken off the air with a stick pin and a magic
> marker!
>
> I do remember hearing about the guy that had his gear ripped
> through the window by the coax with a rope and a fast moving
> pickup.
>
> Harry
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

22979. Re: Kenwood Restore

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-18 15:31:14 UTC
From: w5rkl
Topic: 22976 Message: 22979

Hello Dan,

Do you have the TS-520 service manual? If not then I recommend downloading it from Gordon's (N6WK) website.

http://www.n6wk.com/kenwood/

Front panel removal is shown on page 35.

Front sub panel disassembly is shown on page 36.

Rear panel disassembly is shown on page 37.

Individual switch removal is shown on page 40.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "whiteknight926" <dsellmeyer@...> wrote:
>
> Hi all...
>
> I am trying too remove the metal face behine the face plate on a TS-520. Pulling all the nuts off the knobs and screws from the face was the easy part but what about the switches ?? Is there any easy way to get them off the face with out un-soldering them all ??? Other then the Mic plug that usually has to be taken off and it kinda a pain but oh well..
>
> Thanks
> Dan
> WB0YYE
>

22980. Re: Kenwood Restore

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-18 16:45:20 UTC
From: whiteknight926
Topic: 22976 Message: 22980

Mike:

No I didn't but I do now. Thanks you very much and what a great site for kenwood info !!!!!!

Thanks so much
Dan
WB0YYE

22981. Re: Driver Tubes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-18 16:54:07 UTC
From: loewensteijn@rocketmail.com
Topic: 22951 Message: 22981

Jerry

just as a matter of interest: why would you want to do that? I really like to know.
thanks, Marinus, ZL2ML

--- In TS-520_820_530_830@yahoogroups.com, "Jerry Keller" <k3bz@...> wrote:
>
> For the driver tube in a TS-520S, is anyone using an 8077 / 7054 to replace the 12BY7 ? Comments?
>
> 73, Jerry K3BZ
>
>
>
> [Non-text portions of this message have been removed]
>

22982. Enabling the WARC bands for the TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-18 18:12:45 UTC
From: wb4mnk@bellsouth.net
Topic: 22982 Message: 22982

I found in the files area what wire to cut to enable the WARC bands in the TS-520 but can not find the procedure for the TS-830S. Anyone have the procedure (what wire to cut) to enable the WARC bands in the TS-830S ?

73,
Art
WB4MNK

22983. Re: Enabling the WARC bands for the TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-18 18:21:49 UTC
From: ah6rr1
Topic: 22982 Message: 22983

To get the WARC bands on the 830S do the following.
In early TS-830's, the WARC transmit was not enabled. Solder a jumper wire from Pin 12 of IC-23 to ground on the DIGITAL UNIT PCB. Ground can be obtained at Pin 8 of IC-4.
This is from the TS-830S Survival Guide.
73 and GL
Roland AH6RR
--- In TS-520_820_530_830@yahoogroups.com, "wb4mnk@..." <wb4mnk@...> wrote:
>
> I found in the files area what wire to cut to enable the WARC bands in the TS-520 but can not find the procedure for the TS-830S. Anyone have the procedure (what wire to cut) to enable the WARC bands in the TS-830S ?
>
> 73,
> Art
> WB4MNK
>

22984. Re: [TS-520_820_530_830] Enabling the WARC bands for the TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-18 18:23:33 UTC
From: n6wk@n6wk.com
Topic: 22982 Message: 22984

Pin # 4 on Connector # 6 on the AF board It is labeled as "TOF" terminal.

Hope this helps.
73,
Gordon

wb4mnk@... wrote:
>
>
> I found in the files area what wire to cut to enable the WARC bands in
> the TS-520 but can not find the procedure for the TS-830S. Anyone have
> the procedure (what wire to cut) to enable the WARC bands in the TS-830S ?
>
> 73,
> Art
> WB4MNK
>
>

22985. Re: [TS-520_820_530_830] Enabling the WARC bands for the TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-18 18:26:14 UTC
From: n6wk@n6wk.com
Topic: 22982 Message: 22985

Art,
It is explained on Page 27 of the Operating manual as well.
http://www.n6wk.com/kenwood/TS-830S-High%20Quality%20Instruction%20Manual.pdf

wb4mnk@... wrote:
>
>
> I found in the files area what wire to cut to enable the WARC bands in
> the TS-520 but can not find the procedure for the TS-830S. Anyone have
> the procedure (what wire to cut) to enable the WARC bands in the TS-830S ?
>
> 73,
> Art
> WB4MNK
>
>
> Messages in this topic
> <http://groups.yahoo.com/group/TS-520_820_530_830/message/22982;_ylc=X3oDMTM2ajEzNmI3BF9
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> (1) Reply (via web post)
> <http://groups.yahoo.com/group/TS-520_820_530_830/post;_ylc=X3oDMTJxcHJzNzMxBF9TAzk3MzU5
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> | Start a new topic
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> Messages
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> | Files
> <http://groups.yahoo.com/group/TS-520_820_530_830/files;_ylc=X3oDMTJmMDhpYTRzBF9TAzk3MzU
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Dk1Njg->
> | Photos
> <http://groups.yahoo.com/group/TS-520_820_530_830/photos;_ylc=X3oDMTJlb3Rmb29nBF9TAzk3Mz
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> | Database
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> | Members
> <http://groups.yahoo.com/group/TS-520_820_530_830/members;_ylc=X3oDMTJlb2hjNTdzBF9TAzk3M
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4OTU2OA-->
>
> MARKETPLACE
> Mom Power: Discover the community of moms doing more for their
> families, for the world and for each other
> <http://us.ard.yahoo.com/SIG=14kmsed74/M=493064.12016295.13271503.10835568/D=groups/S=17
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>
> Yahoo! Groups
> <http://groups.yahoo.com/;_ylc=X3oDMTJkdDZuOWJhBF9TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc
3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA2dmcARzdGltZQMxMjU1ODg5NTY4>
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> Change settings via the Web
> <http://groups.yahoo.com/group/TS-520_820_530_830/join;_ylc=X3oDMTJmY2hiNTU1BF9TAzk3MzU5
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k1Njg->
> (Yahoo! ID required)
> Change settings via email: Switch delivery to Daily Digest
> <mailto:TS-520_820_530_830-digest@yahoogroups.com?subject=Email%20Delivery:%20Digest>
> | Switch format to Traditional
> <mailto:TS-520_820_530_830-traditional@yahoogroups.com?subject=Change%20Delivery%20Forma
t:%20Traditional>
>
> Visit Your Group
> <http://groups.yahoo.com/group/TS-520_820_530_830;_ylc=X3oDMTJkajRqc2IwBF9TAzk3MzU5NzE0B
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> | Yahoo! Groups Terms of Use <http://docs.yahoo.com/info/terms/> |
> Unsubscribe
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=>
> Recent Activity
>
> *
> 12
> New Members
> <http://groups.yahoo.com/group/TS-520_820_530_830/members;_ylc=X3oDMTJmZHR0YnExBF9TAzk3M
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4ODk1Njg->
>
> Visit Your Group
> <http://groups.yahoo.com/group/TS-520_820_530_830;_ylc=X3oDMTJlc3BiZWJqBF9TAzk3MzU5NzE0B
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->
>
> Biz Resources
>
> Y! Small Business

> <http://us.ard.yahoo.com/SIG=14hhf979o/M=493064.12016255.12445662.8674578/D=groups/S=170
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yahoo.com/r-index>
>
> Articles, tools,
>
> forms, and more.
>
> Check out the
>
> Y! Groups blog
> <http://us.ard.yahoo.com/SIG=14hsuhlso/M=493064.12016258.12582637.8674578/D=groups/S=170
5063108:NC/Y=YAHOO/EXP=1255896768/L=/B=xzkNBkPDhFU-/J=1255889568630729/K=R0IPTDItss4Bf3Mn1
Ad8CA/A=5191952/R=0/SIG=112mhte3e/*http://www.ygroupsblog.com/blog/>
>
> Stay up to speed
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> on all things Groups!
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> Yahoo! Groups
>
> Mental Health Zone
> <http://us.ard.yahoo.com/SIG=14h9qmrra/M=493064.12016283.13564723.8674578/D=groups/S=170
5063108:NC/Y=YAHOO/EXP=1255896768/L=/B=yDkNBkPDhFU-/J=1255889568630729/K=R0IPTDItss4Bf3Mn1
Ad8CA/A=5741395/R=0/SIG=11m8njht2/*http://advision.webevents.yahoo.com/mentalhealthzone>
>
> Schizophrenia groups
>
> Find support
>

22986. Re: [TS-520_820_530_830] Re: Driver Tubes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-18 18:55:56 UTC
From: Jerry Keller
Topic: 22951 Message: 22986

I'm just trying to put together a list of driver tubes that will work, so I can keep an eye out at hamfests, on e-bay, etc. Looking through the spec sheets, the 8077 /7054 pentode seems to share nearly all characteristics with the 12BY7 / 12BV7 / 12DQ7 and I have been told that they are interchangeable. However, before I rely on it, I would rather confirm that interchangeability by hearing it here on the reflector from someone who has actually done it.

This inquiry was begun because my recently acquired TS-520S loads up fine up to and including 20M, but I get only a little indication of drive on 15M and none at all on any of the 10M band segments. This is with a 12BY7A driver tube. I tried several other 12BY7s with similar results, but I can't be sure how good any of these tubes are, so I'm looking for a few new ones to try.

73, Jerry K3BZ
----- Original Message -----
From: loewensteijn@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, October 18, 2009 12:54 PM
Subject: [TS-520_820_530_830] Re: Driver Tubes

Jerry

just as a matter of interest: why would you want to do that? I really like to know.
thanks, Marinus, ZL2ML

--- In TS-520_820_530_830@yahoogroups.com, "Jerry Keller" <k3bz@...> wrote:
>
> For the driver tube in a TS-520S, is anyone using an 8077 / 7054 to replace the 12BY7 ? Comments?
>
> 73, Jerry K3BZ
>
>
>
> [Non-text portions of this message have been removed]
>

Yahoo! Groups Links

[Non-text portions of this message have been removed]

22987. Re: [TS-520_820_530_830] Enabling the WARC bands for the TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-18 19:29:38 UTC
From: Art
Topic: 22982 Message: 22987

Gordon,

Thank you for the link which like you say explains everything on page 27. I opened my instruction manual for the TS-830S and page 28 matched the manual at the link below except the area below adjustment of monitor level is BLANK. No wonder I could not find it. Also under adjustment of receive if coils it is a little different procedure.

Gordon thanks for the help.

73,
Art
WB4MNK

PS Thanks for the reply Roland.

n6wk@... wrote:
>
>
> Art,
> It is explained on Page 27 of the Operating manual as well.
> http://www.n6wk.com/kenwood/TS-830S-High%20Quality%20Instruction%20Manual.pdf
> <http://www.n6wk.com/kenwood/TS-830S-High%20Quality%20Instruction%20Manual.pdf>
>
> wb4mnk@... <mailto:wb4mnk%40bellsouth.net> wrote:
> >
> >
> > I found in the files area what wire to cut to enable the WARC bands in
> > the TS-520 but can not find the procedure for the TS-830S. Anyone have
> > the procedure (what wire to cut) to enable the WARC bands in the
> TS-830S ?
> >
> > 73,
> > Art
> > WB4MNK
> >
> >
> > Messages in this topic
> >
> <http://groups.yahoo.com/group/TS-520_820_530_830/message/22982;_ylc=X3oDMTM2ajEzNmI3BF9
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3Z0cGMEc3RpbWUDMTI1NTg4OTU2OAR0cGNJZAMyMjk4Mg-->>
>

> > (1) Reply (via web post)
> >
> <http://groups.yahoo.com/group/TS-520_820_530_830/post;_ylc=X3oDMTJxcHJzNzMxBF9TAzk3MzU5
NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzIyOTgyBHNlYwNmdHIEc2xrA3JwbHkEc3
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> <http://groups.yahoo.com/group/TS-520_820_530_830/post;_ylc=X3oDMTJxcHJzNzMxBF9TAzk3MzU5
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RpbWUDMTI1NTg4OTU2OA--?act=reply&messageNum=22982>>
>
> > | Start a new topic
> >
> <http://groups.yahoo.com/group/TS-520_820_530_830/post;_ylc=X3oDMTJlbWhudmVyBF9TAzk3MzU5
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U2OA--
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>
> >
> > Messages
> >
> <http://groups.yahoo.com/group/TS-520_820_530_830/messages;_ylc=X3oDMTJlNGJkYjlhBF9TAzk3
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g4OTU2OA-->>
>
> > | Files
> >
> <http://groups.yahoo.com/group/TS-520_820_530_830/files;_ylc=X3oDMTJmMDhpYTRzBF9TAzk3MzU
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> <http://groups.yahoo.com/group/TS-520_820_530_830/files;_ylc=X3oDMTJmMDhpYTRzBF9TAzk3MzU
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>
> > | Photos
> >
> <http://groups.yahoo.com/group/TS-520_820_530_830/photos;_ylc=X3oDMTJlb3Rmb29nBF9TAzk3Mz
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> > | Database
> >
> <http://groups.yahoo.com/group/TS-520_820_530_830/database;_ylc=X3oDMTJjNm91amkyBF9TAzk3
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> > | Members
> >
> <http://groups.yahoo.com/group/TS-520_820_530_830/members;_ylc=X3oDMTJlb2hjNTdzBF9TAzk3M
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4OTU2OA-->>
>
> >
> > MARKETPLACE
> > Mom Power: Discover the community of moms doing more for their
> > families, for the world and for each other
> >
> <http://us.ard.yahoo.com/SIG=14kmsed74/M=493064.12016295.13271503.10835568/D=groups/S=17
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>
> >
> > Yahoo! Groups
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> <http://groups.yahoo.com/;_ylc=X3oDMTJkdDZuOWJhBF9TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc
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3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA2dmcARzdGltZQMxMjU1ODg5NTY4>>
>
> >
> > Change settings via the Web
> >
> <http://groups.yahoo.com/group/TS-520_820_530_830/join;_ylc=X3oDMTJmY2hiNTU1BF9TAzk3MzU5
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k1Njg->>
>
> > (Yahoo! ID required)
> > Change settings via email: Switch delivery to Daily Digest
> > <mailto:TS-520_820_530_830-digest@yahoogroups.com
> <mailto:TS-520_820_530_830-digest%40yahoogroups.com>?subject=Email%20Delivery:%20Digest>
>
> > | Switch format to Traditional
> > <mailto:TS-520_820_530_830-traditional@yahoogroups.com

> <mailto:TS-520_820_530_830-traditional%40yahoogroups.com>?subject=Change%20Delivery%20Format:%20Traditional>
>
> >
> > Visit Your Group
> >
> <http://groups.yahoo.com/group/TS-520_820_530_830;_ylc=X3oDMTJkajRqc2IwBF9TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA2hwZgRzdGltZQMxMjU1ODg5NTY4
> <http://groups.yahoo.com/group/TS-520_820_530_830;_ylc=X3oDMTJkajRqc2IwBF9TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA2hwZgRzdGltZQMxMjU1ODg5NTY4>>
>
> > | Yahoo! Groups Terms of Use <http://docs.yahoo.com/info/terms/
> <http://docs.yahoo.com/info/terms/>> |
> > Unsubscribe
> > <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe%40yahoogroups.com>?subject=>
> > Recent Activity
> >
> > *
> > 12
> > New Members
> >
> <http://groups.yahoo.com/group/TS-520_820_530_830/members;_ylc=X3oDMTJmZHR0YnExBF9TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwN2dGwEc2xrA3ZtYnJzBHN0aW1lAzEyNTU4ODk1Njg-
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> >
> > Visit Your Group
> >
> <http://groups.yahoo.com/group/TS-520_820_530_830;_ylc=X3oDMTJlc3BiZWJqBF9TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwN2dGwEc2xrA3ZnaHAEc3RpbWUDMTI1NTg4OTU2OA--
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>
> >
> > Biz Resources
> >
> > Y! Small Business
> >
> <http://us.ard.yahoo.com/SIG=14hhf979o/M=493064.12016255.12445662.8674578/D=groups/S=1705063108:NC/Y=YAHOO/EXP=1255896768/L=/B=xjkNBkPDhFU-/J=1255889568630729/K=R0IPTDItss4Bf3Mn1Ad8CA/A=4025321/R=0/SIG=12a352npd/*http://us.rd.yahoo.com/evt=44092/*http://smallbusiness.yahoo.com/r-index
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yahoo.com/r-index>>
> >
> > Articles, tools,
> >
> > forms, and more.
> >
> > Check out the
> >
> > Y! Groups blog
> >
> <http://us.ard.yahoo.com/SIG=14hsuhlso/M=493064.12016258.12582637.8674578/D=groups/S=170
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> >
> > Stay up to speed
> >
> > on all things Groups!
> >
> > Yahoo! Groups
> >
> > Mental Health Zone
> >
> <http://us.ard.yahoo.com/SIG=14h9qmrra/M=493064.12016283.13564723.8674578/D=groups/S=170
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Ad8CA/A=5741395/R=0/SIG=11m8njht2/*http://advision.webevents.yahoo.com/mentalhealthzone>>
> >
> > Schizophrenia groups
> >
> > Find support
> >
>
>

22988. D-104 nostalgza

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-18 20:25:33 UTC
From: Rich Jones
Topic: 22988 Message: 22988

Your CB heritage will only be evident if you refer to the D-104 as a Chicken Choker. I have used one on Drake and Ten Tec gear for a long time. If you put a resister in line with the green audio wire (Play with resisters to get sound you like) you can get the bass to improve and really improve the sound. I have a Heath Risister sub-box that is great for this. You can't harm anything but you may get the sound you like. I have old 1930 QST's magazine and the microphone is advertised in them and doesn't look any different than they do today. People use to make little knited "cozy's" for the head with your call letter on them> What a way to bring back memories. 73 Rich K8UV

[Non-text portions of this message have been removed]

22989. Re: [TS-520_820_530_830] D-104 nostalgza

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-18 20:35:43 UTC
From: Joe
Topic: 22988 Message: 22989

I ran a D-104 on my Heathkit SB-102 back in the early/mid '70's. We always referred to them a 'lollipop' mic. I even painted the head with a red and white spiral. Got a few comments over that! Heh.

If memory serves me, I added some resistance to the audio wire to give my audio a little more bass, as I have to live with a tenor voice...great for singing, but cruddy for Ham radio!

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: "Rich Jones" <michjonezee@...>
Subject: [TS-520_820_530_830] D-104 nostalgza

> If you put a resister in line with the green audio wire (Play with
> resisters to get
>sound you like) you can get the bass to improve and really improve the
>sound.

22990. Kenwood VFO Cables: Compliment to N6WK

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-18 21:55:03 UTC
From: Les Zwiebel WB6ORZ
Topic: 22990 Message: 22990

Happy here with the quality (and service) re the TS-830 as
well as the TS-520/820 VFO Cables from Gordon, N6WK.
Just a satisified customer.
(((((73)))))
Les
---===WB6ORZ===---

22991. Re: [TS-520_820_530_830] Enabling the WARC bands for the TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-19 01:11:48 UTC
From: John Davidson
Topic: 22982 Message: 22991

Are you sure>? you may mean the 530 bercause the 520 changes bands by changing xtals in a local osc.

--- On Sun, 10/18/09, wb4mnk@... <wb4mnk@...> wrote:

From: wb4mnk@... <wb4mnk@...>
Subject: [TS-520_820_530_830] Enabling the WARC bands for the TS-830S
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, October 18, 2009, 2:12 PM

I found in the files area what wire to cut to enable the WARC bands in the TS-520 but can not find the procedure for the TS-830S. Anyone have the procedure (what wire to cut) to enable the WARC bands in the TS-830S ?

73,
Art
WB4MNK

[Non-text portions of this message have been removed]

22992. Re: [TS-520_820_530_830] Enabling the WARC bands for the TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-19 01:32:58 UTC
From: Art
Topic: 22982 Message: 22992

Hi John,

Sorry my mistake.

73,
Art

John Davidson wrote:
>
>
> Are you sure>? you may mean the 530 bercause the 520 changes bands by
> changing xtals in a local osc.
>
> --- On Sun, 10/18/09, wb4mnk@...
> <mailto:wb4mnk%40bellsouth.net> <wb4mnk@...
> <mailto:wb4mnk%40bellsouth.net>> wrote:
>
> From: wb4mnk@... <mailto:wb4mnk%40bellsouth.net>
> <wb4mnk@... <mailto:wb4mnk%40bellsouth.net>>
> Subject: [TS-520_820_530_830] Enabling the WARC bands for the TS-830S
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Date: Sunday, October 18, 2009, 2:12 PM
>
>
>
> I found in the files area what wire to cut to enable the WARC bands in
> the TS-520 but can not find the procedure for the TS-830S. Anyone have
> the procedure (what wire to cut) to enable the WARC bands in the TS-830S ?
>
> 73,
> Art
> WB4MNK
>
> [Non-text portions of this message have been removed]
>
>

22993. Good Scan of TS-830S IF Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-19 17:02:06 UTC
From: ah6rr1
Topic: 22993 Message: 22993

Does anyone have a good scan of the IF board on the 830 the ones I have downloaded are so fuzzy you can not read where the component are located. I have a 830 that has no RX and after I finnish that I will get to the TX side it does not work either.
Thanks
Roland AH6RR

22994. RE: [TS-520_820_530_830] Good Scan of TS-830S IF Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-19 17:32:54 UTC
From: Dick Merryman
Topic: 22993 Message: 22994

It's on its way to you directly (4 MB).

-Dick-
N3XRU

_____

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of ah6rr1
Sent: Monday, October 19, 2009 10:02 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Good Scan of TS-830S IF Board

Does anyone have a good scan of the IF board on the 830 the ones I have
downloaded are so fuzzy you can not read where the component are located. I
have a 830 that has no RX and after I finnish that I will get to the TX side
it does not work either.
Thanks
Roland AH6RR

[Non-text portions of this message have been removed]

22995. Re: Good Scan of TS-830S IF Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-19 17:46:27 UTC
From: w5rkl
Topic: 22993 Message: 22995

Hello Roland,

Have you checked all of the voltages on the Rectifier Unit, especially the "14A" supply?

Is the digital display working? Based on the information you have provided I suspect the digital display is not working.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "ah6rr1" <ah6rr@...> wrote:
>
> Does anyone have a good scan of the IF board on the 830 the ones I have downloaded are so fuzzy you can not read where the component are located. I have a 830 that has no RX and after I finnish that I will get to the TX side it does not work either.
> Thanks
> Roland AH6RR
>

22996. Re: [TS-520_820_530_830] Good Scan of TS-830S IF Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-19 18:09:00 UTC
From: n6wk@n6wk.com
Topic: 22993 Message: 22996

Hi Roland,
You can grab it from here
http://www.n6wk.com/kenwood/TS-830-IF-Board%20Hi%20Resolution.pdf

It is about 1 Meg in size and is clearly readable

73,
Gordon

ah6rr1 wrote:
>
>
> Does anyone have a good scan of the IF board on the 830 the ones I
> have downloaded are so fuzzy you can not read where the component are
> located. I have a 830 that has no RX and after I finnish that I will
> get to the TX side it does not work either.
> Thanks
> Roland AH6RR
>
>

22997. Re: Good Scan of TS-830S IF Board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-19 18:51:43 UTC
From: ah6rr1
Topic: 22993 Message: 22997

Here's what I have. I have 2 830's one has no TX and one has no RX I switched the IF board's the good RX into the bad RX after I determined that it was not getting a signal even with the Marker now that one has RX and TX so that goes back to the owner after a complete alignment. Now I will go over the IF board and see where the signal stops. Does anyone know what the replacements are for the 2SK125 and the 3SK75? In case it is one of them. After I get the RX then I will dig into the TX. Both radios have the read out working just fine.
73
Roland AH6RR

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello Roland,
>
> Have you checked all of the voltages on the Rectifier Unit, especially the "14A" supply?
>
> Is the digital display working? Based on the information you have provided I suspect the digital display is not working.
>
>
> 73's
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "ah6rr1" <ah6rr@> wrote:
> >
> > Does anyone have a good scan of the IF board on the 830 the ones I have downloaded are so fuzzy you can not read where the component are located. I have a 830 that has no RX and after I finnish that I will get to the TX side it does not work either.
> > Thanks
> > Roland AH6RR
> >
>

22998. Re: Enabling the WARC bands for the TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-19 19:17:38 UTC
From: David
Topic: 22982 Message: 22998

Art
Is this a typo?
"I found in the files area what wire to cut to enable the WARC bands in the TS-520 " I think you ment the TS-530.....
If not send me the link i sure would love my ts-520 to have WARC.
Dave kg4uxr

--- In TS-520_820_530_830@yahoogroups.com, "wb4mnk@..." <wb4mnk@...> wrote:
>
> I found in the files area what wire to cut to enable the WARC bands in the TS-520 but can not find the procedure for the TS-830S. Anyone have the procedure (what wire to cut) to enable the WARC bands in the TS-830S ?
>
> 73,
> Art
> WB4MNK
>

22999. Re: [TS-520_820_530_830] Re: Enabling the WARC bands for the TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-19 19:28:25 UTC
From: Dana Borgman
Topic: 22982 Message: 22999

For all 3 bands: Break the line between the RF unit 44-1360-00,
connector #6, Pin #1 (TOF terminal) and AF unit X49-1140-00, connector
#6, Pin #4 (TOF terminal)

Or, for individual bands: on RF unit X44-1360-00:

Band Remove (or cut) Part
10 MHz D4
18 MHz D5
24.5 MHz D6

73,
-- Dana, KA1WPM

On Mon, 2009-10-19 at 19:17 +0000, David wrote:

>
>
> Art
> Is this a typo?
> "I found in the files area what wire to cut to enable the WARC bands
> in the TS-520 " I think you ment the TS-530.....
> If not send me the link i sure would love my ts-520 to have WARC.
> Dave kg4uxr
>
> --- In TS-520_820_530_830@yahoogroups.com, "wb4mnk@..." <wb4mnk@...>
> wrote:
> >
> > I found in the files area what wire to cut to enable the WARC bands
> in the TS-520 but can not find the procedure for the TS-830S. Anyone
> have the procedure (what wire to cut) to enable the WARC bands in the
> TS-830S ?
> >
> > 73,
> > Art
> > WB4MNK
> >
>
>
>
>
>

[Non-text portions of this message have been removed]

23000. Re: [TS-520_820_530_830] Re: Enabling the WARC bands for the TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-19 20:29:37 UTC
From: Art
Topic: 22982 Message: 23000

Roger

73,
Art

David wrote:
>
>
> Art
> Is this a typo?
> "I found in the files area what wire to cut to enable the WARC bands
> in the TS-520 " I think you ment the TS-530.....
> If not send me the link i sure would love my ts-520 to have WARC.
> Dave kg4uxr
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "wb4mnk@..."
> <wb4mnk@...> wrote:
> >
> > I found in the files area what wire to cut to enable the WARC bands
> > in the TS-520 but can not find the procedure for the TS-830S. Anyone
> > have the procedure (what wire to cut) to enable the WARC bands in the
> > TS-830S ?
> > >
> > > 73,
> > > Art
> > > WB4MNK
> > >
>
>

23001. Re: [TS-520_820_530_830] Re: Enabling the WARC bands for the TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-19 20:31:05 UTC
From: Art
Topic: 22982 Message: 23001

Thanks Dana,

Worked perfect.

73,
Art

Dana Borgman wrote:
>
>
> For all 3 bands: Break the line between the RF unit 44-1360-00,
> connector #6, Pin #1 (TOF terminal) and AF unit X49-1140-00, connector
> #6, Pin #4 (TOF terminal)
>
> Or, for individual bands: on RF unit X44-1360-00:
>
> Band Remove (or cut) Part
> 10 MHz D4
> 18 MHz D5
> 24.5 MHz D6
>
> 73,
> -- Dana, KA1WPM
>
> On Mon, 2009-10-19 at 19:17 +0000, David wrote:
>
> >
> >
> > Art
> > Is this a typo?
> > "I found in the files area what wire to cut to enable the WARC bands
> > in the TS-520 " I think you ment the TS-530.....
> > If not send me the link i sure would love my ts-520 to have WARC.
> > Dave kg4uxr
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "wb4mnk@..." <wb4mnk@...>
> > wrote:
> > >
> > > I found in the files area what wire to cut to enable the WARC bands
> > in the TS-520 but can not find the procedure for the TS-830S. Anyone
> > have the procedure (what wire to cut) to enable the WARC bands in the
> > TS-830S ?
> > >

> > > 73,
> > > Art
> > > WB4MNK
> > >
> >
> >
> >
> >
> >
>
> [Non-text portions of this message have been removed]
>
>

23002. Re: Driver Tubes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-19 21:32:45 UTC
From: james27613
Topic: 22951 Message: 23002

Hi Jerry,

plenty of new in box JAN Cicra 1985
12BY7A driver $10 and 6146W finals $18 here

http://www.surplussales.com/Tubes-Sock-Acc/TubeSpecials.html

73 james

23003. Re: Meter/Needle Light Bulb For Kenwood TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-19 22:16:47 UTC
From: Ken
Topic: 22783 Message: 23003

I'm catching up on the weekend emails and may be entering the race a bit late but I just purchased the meter lamp for my 440S... It is Radio Shack #2721141

Ken - KB7H

--- In TS-520_820_530_830@yahoogroups.com, "Jonathan B. O'Rear" <jonkd4mpw@...> wrote:
>
> Thank you Roland. Can you give me the Radio Shack part number for this lamp for kenwood ts830s?

23004. Ok what did I do wrong here?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-19 22:28:00 UTC
From: jon
Topic: 23004 Message: 23004

Hi Everyone My name is Jon KG6NXX in California.

ok now i tuned up for 10mtr rite and i was calling out then i was checking out the vox while i was calling cq 10 then i held still the mic gain knob stil, while i was moving the car knob at the same time i was still on vox on 10mtr then it stoped transmitting on me but i was still getting incoming audio then i lost s meter readings on incoming audio signals rite after that so what did i do wrong here and did i blow my tubes on my ts-830s.

thank you .

kg6nxx jon.

23005. Re: TS-520 Globes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-19 22:33:55 UTC
From: Ken
Topic: 22876 Message: 23005

They are 12.6vac bulbs and available at Radio Shack #2721141

Ken - KB7H

--- In TS-520_820_530_830@yahoogroups.com, "toolmankev2002" <toolmankev2002@...> wrote:
>
> hi group,
>
> can somebody help me out with the obvious here, i need to know the voltage of the globes in behind the dial and the meter of the rig as one of mine in each side is blown.
>
> i have been looking at the Schematic and i just cant seem to see them
>
> thanks
>
> kevin
>

23006. Re: [TS-520_820_530_830] Re: Meter/Needle Light Bulb For Kenwood TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-19 22:31:00 UTC
From: Jonathan ORear
Topic: 22783 Message: 23006

Hello Ken. I sent you a paypal payment for 3 items for Kenwood TS 830S. Meter lights,fuses and lid screws. paypal id: jonkd4mpw@...

JONATHAN B. O'REAR
AMATEUR/HAM RADIO COMMUNICATIONS/SHORTWAVE RADIO/TECHNICIAN CLASS/KD4MPW
EMERGENCY MEDICAL TECHNICIAN-BASIC LICENSED
NATIONAL WEATHER SERVICE-SEVERE WEATHER STORM SPOTTER/ADVANCED LEVEL
FIREFIGHTER

From: Ken <atm_ken_hunter@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Mon, October 19, 2009 5:16:47 PM
Subject: [TS-520_820_530_830] Re: Meter/Needle Light Bulb For Kenwood TS-830S

I'm catching up on the weekend emails and may be entering the race a bit late but I just purchased the meter lamp for my 440S... It is Radio Shack #2721141

Ken - KB7H

--- In TS-520_820_530_ 830@yahoogroups. com, "Jonathan B. O'Rear" <jonkd4mpw@. ..> wrote:
>
> Thank you Roland. Can you give me the Radio Shack part number for this lamp for kenwood ts830s?

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

23007. Heil Classic IC Classic 4 and Classic 5 for Kenwood TS 830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-19 23:01:34 UTC
From: jonkd4mpw
Topic: 23007 Message: 23007

Hello friends. I was wondering if the Heil Classic IC was a good microphone for the Kenwood TS 830S. What is the difference between the Heil classic, Classic 4 and Classic 5? Does Heil make a 4 pin female adapter for this Heil IC microphone to fit the Kenwood TS 830S? Thank you friends.

Jonathan KD4MPW

23008. Re: Heil Classic IC Classic 4 and Classic 5 for Kenwood TS 830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-19 23:30:47 UTC
From: ah6rr1
Topic: 23007 Message: 23008

I hate to tell you but the Heil Classic IC is for Icom Radios ONLY they require voltage that the Icom Radios supply to the Microphone. The standard Heil Classic would be fine though. If you goto the Heil web page they tell you what works with what Radio
www.heilsound.com
Any of thier mics that do not have the IC folling the Model would work.
73
Roland AH6RR

--- In TS-520_820_530_830@yahoogroups.com, "jonkd4mpw" <jonkd4mpw@...> wrote:
>
> Hello friends. I was wondering if the Heil Classic IC was a good microphone for the Kenwood TS 830S. What is the difference between the Heil classic, Classic 4 and Classic 5? Does Heil make a 4 pin female adapter for this Heil IC microphone to fit the Kenwood TS 830S? Thank you friends.
>
> Jonathan KD4MPW
>

23009. RE: [TS-520_820_530_830] Re: Heil Classic IC Classic 4 and Classic 5 for Kenwood TS 830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-19 23:37:32 UTC
From: Greg Anders
Topic: 23007 Message: 23009

Yep, the Heil Classic ICs were made to make up for the fact that earlier ICOMs had one less stage of mic amplification inside the transceiver. It was a nice ploy to make sure everyone bought ICOM microphones with amplifiers built-in. I guess the manufacturer has to make money somehow.....

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of ah6rr1
Sent: Monday, October 19, 2009 4:31 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: Heil Classic IC Classic 4 and Classic 5 for Kenwood TS 830s

I hate to tell you but the Heil Classic IC is for Icom Radios ONLY they require voltage that the Icom Radios supply to the Microphone. The standard Heil Classic would be fine though. If you goto the Heil web page they tell you what works with what Radio
www.heilsound.com
Any of thier mics that do not have the IC folling the Model would work.
73
Roland AH6RR

--- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "jonkd4mpw" <jonkd4mpw@...> wrote:
>
> Hello friends. I was wondering if the Heil Classic IC was a good microphone for the Kenwood TS 830S. What is the difference between the Heil classic, Classic 4 and Classic 5? Does Heil make a 4 pin female adapter for this Heil IC microphone to fit the Kenwood TS 830S? Thank you friends.
>
> Jonathan KD4MPW
>

[Non-text portions of this message have been removed]

23010. Re: [TS-520_820_530_830] Re: Heil Classic IC Classic 4 and Classic5 for Kenwood TS 830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-19 23:47:35 UTC
From: Jonathan B. O'Rear
Topic: 23007 Message: 23010

Ok. What is the difference between the classic 4 or classic 5?
Jonathan B. O'Rear / AT&T Blackberry Bold 9000

-----Original Message-----
From: Greg Anders <greg.anders@...>
Date: Mon, 19 Oct 2009 16:37:32
To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830@yahoogroups.com>
Subject: RE: [TS-520_820_530_830] Re: Heil Classic IC Classic 4 and Classic
5 for Kenwood TS 830s

Yep, the Heil Classic ICs were made to make up for the fact that earlier ICOMs had one less stage of mic amplification inside the transceiver. It was a nice ploy to make sure everyone bought ICOM microphones with amplifiers built-in. I guess the manufacturer has to make money somehow.....

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of ah6rr1
Sent: Monday, October 19, 2009 4:31 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: Heil Classic IC Classic 4 and Classic 5 for Kenwood TS 830s

I hate to tell you but the Heil Classic IC is for Icom Radios ONLY they require voltage that the Icom Radios supply to the Microphone. The standard Heil Classic would be fine though. If you goto the Heil web page they tell you what works with what Radio
www.heilsound.com
Any of thier mics that do not have the IC folling the Model would work.
73
Roland AH6RR

--- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "jonkd4mpw" <jonkd4mpw@...> wrote:
>
> Hello friends. I was wondering if the Heil Classic IC was a good microphone for the Kenwood TS 830S. What is the difference between the Heil classic, Classic 4 and Classic 5? Does Heil make a 4 pin female adapter for this Heil IC microphone to fit the Kenwood TS 830S? Thank you friends.
>
> Jonathan KD4MPW
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23011. Re: [TS-520_820_530_830] Re: TS-520 Globes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-19 23:48:14 UTC
From: Here i am
Topic: 22876 Message: 23011

thanks mate i have looked everytwhere here in aus but they are not available so i have found a sutable substitute

thanks for your help

Kevin

From: Ken <atm_ken_hunter@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tue, 20 October, 2009 9:33:55 AM
Subject: [TS-520_820_530_830] Re: TS-520 Globes

They are 12.6vac bulbs and available at Radio Shack #2721141

Ken - KB7H

--- In TS-520_820_530_ 830@yahoogroups. com, "toolmankev2002" <toolmankev2002@ ...> wrote:
>
> hi group,
>
> can somebody help me out with the obvious here, i need to know the voltage of the globes in behind the dial and the meter of the rig as one of mine in each side is blown.
>
> i have been looking at the Schematic and i just cant seem to see them
>
> thanks
>
> kevin
>

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[Non-text portions of this message have been removed]

23012. RE: [TS-520_820_530_830] Re: Heil Classic IC Classic 4 and Classic 5 for Kenwood TS 830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-19 23:55:44 UTC
From: Gordon JC Pearce
Topic: 23007 Message: 23012

On Mon, 2009-10-19 at 16:37 -0700, Greg Anders wrote:
> Yep, the Heil Classic ICs were made to make up for the fact that
> earlier ICOMs had one less stage of mic amplification inside the
> transceiver. It was a nice ploy to make sure everyone bought ICOM
> microphones with amplifiers built-in. I guess the manufacturer has to
> make money somehow.....

Motorola did that too, on (for example) the MC Micro range. It let them
get away with ordinary "telephone cord" mike cables, because the audio
comes down them at about 3 volts ;-)

Gordon MM0YEQ

23013. Re: Heil Classic IC Classic 4 and Classic5 for Kenwood TS 830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-19 23:57:49 UTC
From: ah6rr1
Topic: 23007 Message: 23013

The Classic 4 has the HC-4 cartidge that is mostly used for DX'ing & contesting (adds to the mids and highs in voice) and the classic 5 has the HC-5 cartidge that is for rag-chewing (full range audio). So unless you are into Dx'ing and contests get the Classic 5.
73,
Roland AH6RR

--- In TS-520_820_530_830@yahoogroups.com, "Jonathan B. O'Rear" <jonkd4mpw@...> wrote:
>
> Ok. What is the difference between the classic 4 or classic 5?
> Jonathan B. O'Rear / AT&T Blackberry Bold 9000
>
> -----Original Message-----
> From: Greg Anders <greg.anders@...>
> Date: Mon, 19 Oct 2009 16:37:32
> To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830@yahoogroups.com>
> Subject: RE: [TS-520_820_530_830] Re: Heil Classic IC Classic 4 and Classic
> 5 for Kenwood TS 830s
>
> Yep, the Heil Classic ICs were made to make up for the fact that earlier ICOMs had one less stage of mic amplification inside the transceiver. It was a nice ploy to make sure everyone bought ICOM microphones with amplifiers built-in. I guess the manufacturer has to make money somehow.....
>
> Greg
> KG6YV
>
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of ah6rr1
> Sent: Monday, October 19, 2009 4:31 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: Heil Classic IC Classic 4 and Classic 5 for Kenwood TS 830s
>
>
>
> I hate to tell you but the Heil Classic IC is for Icom Radios ONLY they require voltage that the Icom Radios supply to the Microphone. The standard Heil Classic would be fine though. If you goto the Heil web page they tell you what works with what Radio www.heilsound.com
> Any of thier mics that do not have the IC folling the Model would work.
> 73
> Roland AH6RR
>
> --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>,

"jonkd4mpw" <jonkd4mpw@> wrote:
> >
> > Hello friends. I was wondering if the Heil Classic IC was a good microphone for the Kenwood TS 830S. What is the difference between the Heil classic, Classic 4 and Classic 5? Does Heil make a 4 pin female adapter for this Heil IC microphone to fit the Kenwood TS 830S? Thank you friends.
> >
> > Jonathan KD4MPW
> >
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> [Non-text portions of this message have been removed]
>

23014. Re: [TS-520_820_530_830] Re: Heil Classic IC Classic 4 and Classic5 for Kenwood TS 830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-20 00:02:33 UTC
From: Jonathan B. O'Rear
Topic: 23007 Message: 23014

Ok this clears it up. Thank u again Roland.
Jonathan B. O'Rear / AT&T Blackberry Bold 9000

-----Original Message-----
From: "ah6rr1" <ah6rr@...>
Date: Mon, 19 Oct 2009 23:57:49
To: <TS-520_820_530_830@yahoogroups.com>
Subject: [TS-520_820_530_830] Re: Heil Classic IC Classic 4 and Classic5 for Kenwood TS 830s

The Classic 4 has the HC-4 cartidge that is mostly used for DX'ing & contesting (adds to the mids and highs in voice) and the classic 5 has the HC-5 cartidge that is for rag-chewing (full range audio). So unless you are into Dx'ing and contests get the Classic 5.
73,
Roland AH6RR

--- In TS-520_820_530_830@yahoogroups.com, "Jonathan B. O'Rear" <jonkd4mpw@...> wrote:
>
> Ok. What is the difference between the classic 4 or classic 5?
> Jonathan B. O'Rear / AT&T Blackberry Bold 9000
>
> -----Original Message-----
> From: Greg Anders <greg.anders@...>
> Date: Mon, 19 Oct 2009 16:37:32
> To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830@yahoogroups.com>
> Subject: RE: [TS-520_820_530_830] Re: Heil Classic IC Classic 4 and Classic
> 5 for Kenwood TS 830s
>
> Yep, the Heil Classic ICs were made to make up for the fact that earlier ICOMs had one less stage of mic amplification inside the transceiver. It was a nice ploy to make sure everyone bought ICOM microphones with amplifiers built-in. I guess the manufacturer has to make money somehow.....
>
> Greg
> KG6YV
>
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of ah6rr1
> Sent: Monday, October 19, 2009 4:31 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: Heil Classic IC Classic 4 and Classic 5 for Kenwood TS 830s
>

>
>
> I hate to tell you but the Heil Classic IC is for Icom Radios ONLY they require voltage that the Icom Radios supply to the Microphone. The standard Heil Classic would be fine though. If you goto the Heil web page they tell you what works with what Radio www.heilsound.com
> Any of thier mics that do not have the IC folling the Model would work.
> 73
> Roland AH6RR
>
> --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "jonkd4mpw" <jonkd4mpw@> wrote:
> >
> > Hello friends. I was wondering if the Heil Classic IC was a good microphone for the Kenwood TS 830S. What is the difference between the Heil classic, Classic 4 and Classic 5? Does Heil make a 4 pin female adapter for this Heil IC microphone to fit the Kenwood TS 830S? Thank you friends.
> >
> > Jonathan KD4MPW
> >
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23015. Re: [TS-520_820_530_830] Heil Classic IC Classic 4 and Classic 5 for Kenwood TS 830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-20 00:20:57 UTC
From: Dave ve3wej
Topic: 23007 Message: 23015

also visit heil's website. they are loaded with info on THEIR product

----- Original Message -----
From: "jonkd4mpw" <jonkd4mpw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, October 19, 2009 7:01 PM
Subject: [TS-520_820_530_830] Heil Classic IC Classic 4 and Classic 5 for Kenwood TS 830s

> Hello friends. I was wondering if the Heil Classic IC was a good
> microphone for the Kenwood TS 830S. What is the difference between the
> Heil classic, Classic 4 and Classic 5? Does Heil make a 4 pin female
> adapter for this Heil IC microphone to fit the Kenwood TS 830S? Thank you
> friends.
>
> Jonathan KD4MPW
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

23016. Re: [TS-520_820_530_830] Heil Classic IC Classic 4 and Classic 5 for Kenwood TS 830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-20 00:25:11 UTC
From: Jonathan B. O'Rear
Topic: 23007 Message: 23016

This mic is discontinued but I am still looking on THEIR website.
Jonathan B. O'Rear / AT&T Blackberry Bold 9000

-----Original Message-----
From: "Dave ve3wej" <ve3wej@...>
Date: Mon, 19 Oct 2009 20:20:57
To: <TS-520_820_530_830@yahoogroups.com>
Subject: Re: [TS-520_820_530_830] Heil Classic IC Classic 4 and Classic 5 for Kenwood TS 830s

also visit heil's website. they are loaded with info on THEIR product

----- Original Message -----
From: "jonkd4mpw" <jonkd4mpw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, October 19, 2009 7:01 PM
Subject: [TS-520_820_530_830] Heil Classic IC Classic 4 and Classic 5 for Kenwood TS 830s

> Hello friends. I was wondering if the Heil Classic IC was a good
> microphone for the Kenwood TS 830S. What is the difference between the
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> adapter for this Heil IC microphone to fit the Kenwood TS 830S? Thank you
> friends.
>
> Jonathan KD4MPW
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

23017. Re: [TS-520_820_530_830] Re: Heil Classic IC Classic 4 and Classic5 for Kenwood TS 830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-20 00:14:58 UTC
From: Jonathan B. O'Rear
Topic: 23007 Message: 23017

Ok this clears it up. Thank u again Roland.
Jonathan B. O'Rear / AT&T Blackberry Bold 9000

-----Original Message-----
From: "ah6rr1" <ah6rr@...>
Date: Mon, 19 Oct 2009 23:57:49
To: <TS-520_820_530_830@yahoogroups.com>
Subject: [TS-520_820_530_830] Re: Heil Classic IC Classic 4 and Classic5 for Kenwood TS 830s

The Classic 4 has the HC-4 cartidge that is mostly used for DX'ing & contesting (adds to the mids and highs in voice) and the classic 5 has the HC-5 cartidge that is for rag-chewing (full range audio). So unless you are into Dx'ing and contests get the Classic 5.
73,
Roland AH6RR

--- In TS-520_820_530_830@yahoogroups.com, "Jonathan B. O'Rear" <jonkd4mpw@...> wrote:
>
> Ok. What is the difference between the classic 4 or classic 5?
> Jonathan B. O'Rear / AT&T Blackberry Bold 9000
>
> -----Original Message-----
> From: Greg Anders <greg.anders@...>
> Date: Mon, 19 Oct 2009 16:37:32
> To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830@yahoogroups.com>
> Subject: RE: [TS-520_820_530_830] Re: Heil Classic IC Classic 4 and Classic
> 5 for Kenwood TS 830s
>
> Yep, the Heil Classic ICs were made to make up for the fact that earlier ICOMs had one less stage of mic amplification inside the transceiver. It was a nice ploy to make sure everyone bought ICOM microphones with amplifiers built-in. I guess the manufacturer has to make money somehow.....
>
> Greg
> KG6YV
>
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of ah6rr1
> Sent: Monday, October 19, 2009 4:31 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: Heil Classic IC Classic 4 and Classic 5 for Kenwood TS 830s
>

>
>
> I hate to tell you but the Heil Classic IC is for Icom Radios ONLY they require voltage that the Icom Radios supply to the Microphone. The standard Heil Classic would be fine though. If you goto the Heil web page they tell you what works with what Radio www.heilsound.com
> Any of thier mics that do not have the IC folling the Model would work.
> 73
> Roland AH6RR
>
> --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "jonkd4mpw" <jonkd4mpw@> wrote:
> >
> > Hello friends. I was wondering if the Heil Classic IC was a good microphone for the Kenwood TS 830S. What is the difference between the Heil classic, Classic 4 and Classic 5? Does Heil make a 4 pin female adapter for this Heil IC microphone to fit the Kenwood TS 830S? Thank you friends.
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> [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

23018. Re: Ok what did I do wrong here?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-20 00:49:04 UTC
From: w5rkl
Topic: 23004 Message: 23018

Hello Jon,

First, the "CAR" control has absolutely no control what so ever over the TS-830S RF output in sideband mode. The CAR control functions ONLY in TUNE and CW modes.

There are 3 tubes in the 830, a driver (12BY7) and 2 final amplifiers (6146B or S2001A). The tubes are not used in receive, ONLY in transmit.

Are you asking why the radio switched back to receive quicker than you expected when using VOX or are you asking if you damaged the radio by adjusting the CAR control while transmitting in sideband?

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "jon" <kg6nxx@...> wrote:
>
> Hi Everyone My name is Jon KG6NXX in California.
>
> ok now i tuned up for 10mtr rite and i was calling out then i was checking out the vox while i was calling cq 10 then i held still the mic gain knob stil, while i was moving the car knob at the same time i was still on vox on 10mtr then it stoped transmitting on me but i was still getting incoming audio then i lost s meter readings on incoming audio signals rite after that so what did i do wrong here and did i blow my tubes on my ts-830s.
>
> thank you .
>
> kg6nxx jon.
>

23019. Re: [TS-520_820_530_830] Re: Heil Classic IC Classic 4 and Classic5 for Kenwood TS 830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-20 01:35:05 UTC
From: Gmail - Kevin, Natalia, Stacey & Rochelle
Topic: 23007 Message: 23019

When I brought my Heil headset in 93 at Dayton they threw in a HC-4 and 5, I believe I have the 4 in the boom.
Bringing up this message answered what I had always wanted to know which was better, and this simple answer did that.
It's a shame that both could not be fitted and a mini-switch could be used to switch between the 2.

Anyway I am in the need of some thoughts.
I am looking at buying a boom mic for the radio shack. Have been looking at the GM/GMV with a shock mount. Want it to operate with my TS-830 and TS-480S/AT
What views do those of you that might be running one? The mp3 sample files sound great.

Thanks

Kevin, ZL1KFM.

----- Original Message -----
From: ah6rr1
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, October 20, 2009 12:57 PM
Subject: [TS-520_820_530_830] Re: Heil Classic IC Classic 4 and Classic5 for Kenwood TS 830s

The Classic 4 has the HC-4 cartidge that is mostly used for DX'ing & contesting (adds to the mids and highs in voice) and the classic 5 has the HC-5 cartidge that is for rag-chewing (full range audio). So unless you are into Dx'ing and contests get the Classic 5.
73,
Roland AH6RR

--- In TS-520_820_530_830@yahoogroups.com, "Jonathan B. O'Rear" <jonkd4mpw@...> wrote:
>
> Ok. What is the difference between the classic 4 or classic 5?
> Jonathan B. O'Rear / AT&T Blackberry Bold 9000
>
> -----Original Message-----
> From: Greg Anders <greg.anders@...>
> Date: Mon, 19 Oct 2009 16:37:32
> To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830@yahoogroups.com>
> Subject: RE: [TS-520_820_530_830] Re: Heil Classic IC Classic 4 and Classic
> 5 for Kenwood TS 830s
>
> Yep, the Heil Classic ICs were made to make up for the fact that earlier ICOMs had one less stage of mic amplification inside the transceiver. It was a nice ploy to make sure everyone bought ICOM microphones with amplifiers built-in. I guess the manufacturer has to

make money somehow.....
>
> Greg
> KG6YV
>
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of ah6rr1
> Sent: Monday, October 19, 2009 4:31 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: Heil Classic IC Classic 4 and Classic 5 for Kenwood TS 830s
>
>
>
> I hate to tell you but the Heil Classic IC is for Icom Radios ONLY they require voltage that the Icom Radios supply to the Microphone. The standard Heil Classic would be fine though. If you goto the Heil web page they tell you what works with what Radio www.heilsound.com
> Any of thier mics that do not have the IC folling the Model would work.
> 73
> Roland AH6RR
>
> --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "jonkd4mpw" <jonkd4mpw@> wrote:
> >
> > Hello friends. I was wondering if the Heil Classic IC was a good microphone for the Kenwood TS 830S. What is the difference between the Heil classic, Classic 4 and Classic 5? Does Heil make a 4 pin female adapter for this Heil IC microphone to fit the Kenwood TS 830S? Thank you friends.
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23020. Re: Heil Classic IC Classic 4 and Classic5 for Kenwood TS 830s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-20 02:23:12 UTC
From: ah6rr1
Topic: 23007 Message: 23020

Aloha Kevin,

They make a Pro Set Plus that has both elements in it it's a little pricey but it is cheaper than buying 2 Pro Set's 4&5. I have 2 prosets one with the 5 and one with the 4 for contesting and DX since Dxing is my most favorite thing in the hobby.
73,
Roland AH6RR

--- In TS-520_820_530_830@yahoogroups.com, "Gmail - Kevin, Natalia, Stacey & Rochelle" <sparcnz@...> wrote:
>
> When I brought my Heil headset in 93 at Dayton they threw in a HC-4 and 5, I believe I have the 4 in the boom.
> Bringing up this message answered what I had always wanted to know which was better, and this simple answer did that.
> It's a shame that both could not be fitted and a mini-switch could be used to switch between the 2.
>
> Anyway I am in the need of some thoughts.
> I am looking at buying a boom mic for the radio shack. Have been looking at the GM/GMV with a shock mount. Want it to operate with my TS-830 and TS-480S/AT
> What views do those of you that might be running one? The mp3 sample files sound great.
>
> Thanks
>
> Kevin, ZL1KFM.
>
> ----- Original Message -----
> From: ah6rr1
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, October 20, 2009 12:57 PM
> Subject: [TS-520_820_530_830] Re: Heil Classic IC Classic 4 and Classic5 for Kenwood TS 830s
>
>
> The Classic 4 has the HC-4 cartidge that is mostly used for DX'ing & contesting (adds to the mids and highs in voice) and the classic 5 has the HC-5 cartidge that is for rag-chewing (full range audio). So unless you are into Dx'ing and contests get the Classic 5.
> 73,
> Roland AH6RR
>
> --- In TS-520_820_530_830@yahoogroups.com, "Jonathan B. O'Rear" <jonkd4mpw@> wrote:
> >
> > Ok. What is the difference between the classic 4 or classic 5?

> > Jonathan B. O'Rear / AT&T Blackberry Bold 9000
> >
> > -----Original Message-----
> > From: Greg Anders <greg.anders@>
> > Date: Mon, 19 Oct 2009 16:37:32
> > To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830@yahoogroups.com>
> > Subject: RE: [TS-520_820_530_830] Re: Heil Classic IC Classic 4 and Classic
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> > Yep, the Heil Classic ICs were made to make up for the fact that earlier ICOMs had one less stage of mic amplification inside the transceiver. It was a nice ploy to make sure everyone bought ICOM microphones with amplifiers built-in. I guess the manufacturer has to make money somehow.....
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> > Greg
> > KG6YV
> >
> > From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of ah6rr1
> > Sent: Monday, October 19, 2009 4:31 PM
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: [TS-520_820_530_830] Re: Heil Classic IC Classic 4 and Classic 5 for Kenwood TS 830s
> >
> >
> >
> > I hate to tell you but the Heil Classic IC is for Icom Radios ONLY they require voltage that the Icom Radios supply to the Microphone. The standard Heil Classic would be fine though. If you goto the Heil web page they tell you what works with what Radio www.heilsound.com
> > Any of thier mics that do not have the IC folling the Model would work.
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> > Roland AH6RR
> >
> > --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "jonkd4mpw" <jonkd4mpw@> wrote:
> > >
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23021. 520S has low power on high (frequency) bands.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-20 14:50:26 UTC
From: larry202br
Topic: 23021 Message: 23021

I've been working this one for some time. someone got in there before me, and destroyed traces and lands, and damaged the switch on the drive coil unit. I tried to repair it, but it was too far gone. I got another drive coil unit, and now it aligns properly, but I have very low power on bands above 14. I have tried four different 12BY7's, to no avail. I can see that the power out of the 12BY7 is low on those bands, looking at the DRV signal with a scope. I'm trying to troubleshoot the input to the driver, so I don't have a good feel for those signal levels yet. I can say that the level at TP3 is good.

Does anyone have any ideas?

23022. RE: [TS-520_820_530_830] 520S has low power on high (frequency) bands.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-20 14:57:28 UTC
From: Greg Anders
Topic: 23021 Message: 23022

There are several stages with separate tuned circuits for each band. The driver ouput is one, the transmit mixer is another, along with the heterodyne oscillator. All three circuits have separate "peak-able" tuned circuits. Are they all peaked on the higher bancs? Can you scope the IF and transmitter mixer output comparing the amplitude on lower bands to the higher bands?

Greg KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of larry202br
Sent: Tuesday, October 20, 2009 7:50 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] 520S has low power on high (frequency) bands.

I've been working this one for some time. someone got in there before me, and destroyed traces and lands, and damaged the switch on the drive coil unit. I tried to repair it, but it was too far gone. I got another drive coil unit, and now it aligns properly, but I have very low power on bands above 14. I have tried four different 12BY7's, to no avail. I can see that the power out of the 12BY7 is low on those bands, looking at the DRV signal with a scope. I'm trying to troubleshoot the input to the driver, so I don't have a good feel for those signal levels yet. I can say that the level at TP3 is good.

Does anyone have any ideas?

[Non-text portions of this message have been removed]

23023. TS-520 & TS-520D: differences

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-20 08:41:02 UTC
From: loewensteijn@rocketmail.com
Topic: 23023 Message: 23023

Picked up about a month ago a TS-520 and a week ago a TS-520D. Today the TS-520D arrived. Both rigs are in a sad state.

The D is in a particular bad electric state although cosmetically in a better condition. Someone with no soldering skills (damaging other wires) has been at work (trying?) to apply the QRO mod and blown up the PA and g2 chokes as well as the PA cathode resistors. Finals (Sylvania 6146B) still test OK (8800 Gm and 8300 Gm) but have visible discoloration. Dropping filament voltage shows still plenty of life left in them. Driver tube is marginal.

For those who want to know: I studied the Korean TS-530D with a single tube final and the differences with the "standard" TS-530S. There are some small differences in capacitance used on the low bands and then there is a 6.2 Ohm filament dropping resistor.

I had expected that the TS-520D would similarly to the TS-530D have a single tube but this is not the case. As far as I can determine it looks like it came standard from the factory with two tubes (no sign of a dropping resistor having been removed and the capacitor values in the PA tank are exactly the same as the TS-520. Neither any sign of an addition 15 pF capacitor at the input (g1) having ever been there).

Differences noted: Fixed 100 V mains connection. No switch like 120 /240V (covered up with a small plate). No converter present for running of a battery (plate covering where it needs to go, mains transformer has windings for adding it). Mains transformer a different type than the TS-520 but still has all the same tappings.

The TS-520D is called "Trio" and not "Kenwood". Have been unable to detect any other visible changes, the PC boards all have same numbers in both models.

I like this particular model above later models. Main reason is the PS stage is hard wired rather than a printed circuit board.

73, Marinus, ZL2ML

23024. Re: 520S has low power on high (frequency) bands.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-20 15:27:46 UTC
From: w5rkl
Topic: 23021 Message: 23024

Hello Larry,

The TP3 signal is the het xtal osc. This signal is fed to the transmit mixer Q3 where it is mixed with the TIF signal to produce the operating frequency that is then fed to the driver tube's grid. Although the het xtal osc signal does appear at the output of Q3, transmit mixer on the RF UNIT, the het xtal osc signal is rejected by the selected band switch driver tube grid coil on the COIL UNIT, allowing only the operating signal to pass to the grid of the driver tube. L4 and L5 are the suspect coils on the COIL UNIT that may be out of alignment or not making good contact on the band switch wafer S2-2.

I would check the band switch wafers on the COIL UNIT for the higher bands. Another area I would check is the band switch wafers in the FINAL UNIT.

Since the lower bands are working fine then that eliminates the IF UNIT, VFO, CAR UNIT, and FIX CH AVR UNIT as the source of the problem. None of these circuits changes when the band switch setting is changed. The only change that would affect one of these circuits is the MODE switch which changes the CAR UNIT crystals but that would not affect the change the RF output by a change in the band switch setting.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "larry202br" <kc0skx@...> wrote:
>
> I've been working this one for some time. someone got in there before me, and destroyed traces and lands, and damaged the switch on the drive coil unit. I tried to repair it, but it was too far gone. I got another drive coil unit, and now it aligns properly, but I have very low power on bands above 14. I have tried four different 12BY7's, to no avail. I can see that the power out of the 12BY7 is low on those bands, looking at the DRV signal with a scope. I'm trying to troubleshoot the input to the driver, so I don't have a good feel for those signal levels yet. I can say that the level at TP3 is good.
>
> Does anyone have any ideas?
>

23025. Re: TS-520 & TS-520D: differences

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-20 15:34:07 UTC
From: w5rkl
Topic: 23023 Message: 23025

Hello Marinus,

I can't help on the TS-520D. Don't have the schematic and service manual. If I had the manuals and schematic I would do my best to help.

Discoloration on the inside of the 6146B glass envelopes is not indication of a failing tube.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "loewensteijn@..." <zl2ml@...> wrote:
>
> Picked up about a month ago a TS-520 and a week ago a TS-520D. Today the TS-520D arrived. Both rigs are in a sad state.
>
> The D is in a particular bad electric state although cosmetically in a better condition. Someone with no soldering skills (damaging other wires) has been at work (trying?) to apply the QRO mod and blown up the PA and g2 chokes as well as the PA cathode resistors. Finals (Sylvania 6146B) still test OK (8800 Gm and 8300 Gm) but have visible discoloration. Dropping filament voltage shows still plenty of life left in them. Driver tube is marginal.
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> Differences noted: Fixed 100 V mains connection. No switch like 120 /240V (covered up with a small plate). No converter present for running of a battery (plate covering where it needs to go, mains transformer has windings for adding it). Mains transformer a different type than the TS-520 but still has all the same tappings.
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>
> 73, Marinus, ZL2ML
>

23026. Re: 520S has low power on high (frequency) bands.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-20 16:50:49 UTC
From: larry202br
Topic: 23021 Message: 23026

Thanks for your reply.

I have peaked all the coils on the drive coil unit, and they do appear to peak properly, just at a lower drive amplitude than that of the lower bands. the original drive coil unit would not do this. It's possible that, even though the drive coil unit is peaking properly, that the low amplitude could be caused by a dirty switch. I will clean it tonight. Since the power is noticeably lower at the DRV signal, which is before the FINAL UNIT switch, wouldn't that mean the problem is before those switch wafer contacts?

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello Larry,
>
> The TP3 signal is the het xtal osc. This signal is fed to the transmit mixer Q3 where it is mixed with the TIF signal to produce the operating frequency that is then fed to the driver tube's grid. Although the het xtal osc signal does appear at the output of Q3, transmit mixer on the RF UNIT, the het xtal osc signal is rejected by the selected band switch driver tube grid coil on the COIL UNIT, allowing only the operating signal to pass to the grid of the driver tube. L4 and L5 are the suspect coils on the COIL UNIT that may be out of alignment or not making good contact on the band switch wafer S2-2.
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> 73's
> Mike W5RKL
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "larry202br" <kc0skx@> wrote:
> >
> > I've been working this one for some time. someone got in there before me, and destroyed traces and lands, and damaged the switch on the drive coil unit. I tried to repair it, but it was too far gone. I got another drive coil unit, and now it aligns properly, but I have very low power on bands above 14. I have tried four different 12BY7's, to no avail. I can see that the power out of the 12BY7 is low on those bands, looking at the DRV signal with a scope. I'm trying to troubleshoot the input to the driver, so I don't have a good feel for those signal levels yet. I can say that the level at TP3 is good.
> >

> > Does anyone have any ideas?
> >
>

23027. Re: 520S has low power on high (frequency) bands.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-20 16:55:47 UTC
From: larry202br
Topic: 23021 Message: 23027

Thanks for your reply.

I've peaked the coils following the procedure in the manual. I don't have a sweep gen, so I can't do the BPF adjustment, but I've followed the coil pack adjustment procedure. I will try and scope the IF and mixer outputs with the scope tonight as well.

--- In TS-520_820_530_830@yahoogroups.com, Greg Anders <greg.anders@...> wrote:
>
> There are several stages with separate tuned circuits for each band. The driver ouput is one, the transmit mixer is another, along with the heterodyne oscillator. All three circuits have separate "peak-able" tuned circuits. Are they all peaked on the higher bancs? Can you scope the IF and transmitter mixer output comparing the amplitude on lower bands to the higher bands?
>
> Greg KG6YV
>
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of larry202br
> Sent: Tuesday, October 20, 2009 7:50 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] 520S has low power on high (frequency) bands.
>
>
>
> I've been working this one for some time. someone got in there before me, and destroyed traces and lands, and damaged the switch on the drive coil unit. I tried to repair it, but it was too far gone. I got another drive coil unit, and now it aligns properly, but I have very low power on bands above 14. I have tried four different 12BY7's, to no avail. I can see that the power out of the 12BY7 is low on those bands, looking at the DRV signal with a scope. I'm trying to troubleshoot the input to the driver, so I don't have a good feel for those signal levels yet. I can say that the level at TP3 is good.
>
> Does anyone have any ideas?
>
>
>
> [Non-text portions of this message have been removed]
>

23028. Re: 520S has low power on high (frequency) bands.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-20 18:47:23 UTC
From: w5rkl
Topic: 23021 Message: 23028

--- In TS-520_820_530_830@yahoogroups.com, "larry202br" <kc0skx@...> wrote:

> Since the power is noticeably lower at the DRV signal, which is
> before the FINAL UNIT switch, wouldn't that mean the problem is
> before those switch wafer contacts?

Yes, that's possible but not any farther back than the transmit mixer. That is why I mentioned to check and clean the driver tube switch wafers S1 and S2.

73's
Mike W5RKL

23029. TS-830S RF Unit Alignment Tool

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-20 18:35:53 UTC
From: f_canuso
Topic: 23029 Message: 23029

I have to change the 12BY7A driver tube in my TS-830S and may need to realign the coil pack on the RF board. Does anyone know where I might be able to obtain an alignment tool that will fit the coil slugs on the RF board? Any help with this would be appreciated.

73,
Tony (N2ATB)

23030. RE: [TS-520_820_530_830] TS-830S RF Unit Alignment Tool

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-20 20:00:53 UTC
From: brad
Topic: 23029 Message: 23030

Not sure what the core is, but radio shack does have a assortment kit of not-conductive alignment tools. Brad KB2CHY

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of f_canuso
Sent: Tuesday, October 20, 2009 14:36
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS-830S RF Unit Alignment Tool

I have to change the 12BY7A driver tube in my TS-830S and may need to realign the coil pack on the RF board. Does anyone know where I might be able to obtain an alignment tool that will fit the coil slugs on the RF board? Any help with this would be appreciated.

73,
Tony (N2ATB)

[Non-text portions of this message have been removed]

23031. RE: [TS-520_820_530_830] TS-830S RF Unit Alignment Tool

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-20 20:07:52 UTC
From: Greg Anders
Topic: 23029 Message: 23031

I believe 830S rf coils use a slug with a sloted head. They look like you could use a plain old screw driver but DON'T. Metal screw drivers could shatter the slug if it is stuck at all. Alignment tool kits have plastic tools with blade type ends. The plastic handle is flexible and will torque slightly if the slug is stuck. You may not move the slug but you certainly won't shatter it. BTW< 830 vintage coils are extremely scarce. I had a broken slug in an 830S about 5-6 years ago and had to find a guy who repairs them who would sell me a 40M coil. Don't break them.
Alignment tool kits are available from Mouser and Antique Electronic Supply in Tempe Az.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of brad
Sent: Tuesday, October 20, 2009 1:01 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: RE: [TS-520_820_530_830] TS-830S RF Unit Alignment Tool

Not sure what the core is, but radio shack does have a assortment kit of not-conductive alignment tools. Brad KB2CHY

_____

From: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com> [mailto:TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of f_canuso
Sent: Tuesday, October 20, 2009 14:36
To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
Subject: [TS-520_820_530_830] TS-830S RF Unit Alignment Tool

I have to change the 12BY7A driver tube in my TS-830S and may need to realign the coil pack on the RF board. Does anyone know where I might be able to obtain an alignment tool that will fit the coil slugs on the RF board? Any help with this would be appreciated.

73,
Tony (N2ATB)

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[Non-text portions of this message have been removed]

23032. Meter TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-21 02:08:29 UTC
From: loewensteijn@rocketmail.com
Topic: 23032 Message: 23032

On both TS-520 meters the red high voltage markings have almost totally faded away.

Is there someone who has one of these meters defunct but has a good scale? Is it possible to take a high resolution photograph of the whole scale and email it to me? Address in QRZ is correct.

Many thanks in advance, Marinus, ZL2ML

23033. ***WARNING*** I gave bad info on YG-455C filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-21 04:24:18 UTC
From: Dick Merryman
Topic: 23033 Message: 23033

Guys-

How embarrassing is this? I told the group that they could cannibalize a YG-455C-1 filter by removing it from its carrier board and be left with a YG-455C solder-in filter.

Well I was wrong.

The YG-455C has a center frequency of 455.7 KHz while the YG-455C-1 has a center frequency of 455.0 KHz. They are not interchangeable. The steep skirt on the YG-455C-1 prevents anything from getting through the 2nd I.F. How do I know? I spent the day trying to figure out why my TS-830S would not work with the YG-455C-1.

Sorry if I caused hardship to anyone.

The other bad news is that the YG-455C is rare as hen's teeth. If you find one latch onto it as it has real value. The Inrad equivalent is $170.

-Dick-
N3XRU

_____

From: Dick Merryman [mailto:dicko@...]
Sent: Sunday, October 04, 2009 9:50 PM
To: 'TS-520_820_530_830@yahoogroups.com'
Subject: RE: [TS-520_820_530_830] Looking for 455Khz Trio/Kenwood Crystal Filter

Tate-

The YG-455C-1, which is a YG-455C on a carrier board with connectors, will fit in the TS-830S if it is removed (unsolder) from its carrier board. The two filters are identical except for the carrier board. YG-455C-1 filters are readily available on eBay and elsewhere.

-Dick-
N3XRU

_____

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Tate Antrim
Sent: Sunday, October 04, 2009 6:39 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Looking for 455Khz Trio/Kenwood Crystal Filter

If you have the solder in YG-455C filter that fits the TS-830S and are willing to part with it, I'm looking for one. Please contact me off list.

Thanks

KD8HJA

Tate

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[Non-text portions of this message have been removed]

23034. TS-830M TX Tuning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-21 08:08:04 UTC
From: sv0xbq
Topic: 23034 Message: 23034

Hi Folks,

After using a TS-520SE for some time I'm now finding my way around a TS-830M that I picked up off Ebay in Italy. Apart from a dry joint in the finals and a dirty band switch it's in very good condition.

I'm following the tune up summary in the manual which ends up with you peaking the RF using the plate and load controls. I get around 110 watts out but if I then go back and check the plate current I'm seeing around 280 mA. Isn't this a tad high?
With my 520 I get max power of 95 watts at around 235 mA plate current and if I increase the load to give a plate current above this figure the power falls off. Bias is set to 60mA on the 830.

Chris SV0XBQ/9

23035. Re: [TS-520_820_530_830] ***WARNING*** I gave bad info on YG-455C filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-21 09:52:10 UTC
From: martin
Topic: 23033 Message: 23035

Hi Dick. I had noticed that some of the YKxxxx-1 filters have the same center frequency as the same filter numbers without the -1, and some have a different center frequency. The same is probably true of the YG series' filters. Too bad that they are not all the same filters with the added board to make them plug in instead of solder in.

Guess you will have to find the correct filter, or try one from Inrad. Fortunately, when I bought my TS-130SE, and TS-430S they had the narrow SSB filters installed, and the TS-430 had the AM filter too. If I wasn't in the process of selling my TS-530S, I would be looking for the YK-88Sn for it too.

I don't like to sell it, but I cannot justify (to myself) having three HF rigs (in my financial situation). Plus a friend wants a good HF radio, so I know its going to a good home.

Good luck!

Dick Merryman wrote:
> Guys-
>
> How embarrassing is this? I told the group that they could cannibalize a
> YG-455C-1 filter by removing it from its carrier board and be left with a
> YG-455C solder-in filter.
>
> Well I was wrong.
>
> The YG-455C has a center frequency of 455.7 KHz while the YG-455C-1 has a
> center frequency of 455.0 KHz. They are not interchangeable. The steep
> skirt on the YG-455C-1 prevents anything from getting through the 2nd I.F.
> How do I know? I spent the day trying to figure out why my TS-830S would
> not work with the YG-455C-1.
>
> Sorry if I caused hardship to anyone.
>
> The other bad news is that the YG-455C is rare as hen's teeth. If you find
> one latch onto it as it has real value. The Inrad equivalent is $170.
>
> -Dick-
> N3XRU
>
>
> _____
>
> From: Dick Merryman [mailto:dicko@...]

> Sent: Sunday, October 04, 2009 9:50 PM
> To: 'TS-520_820_530_830@yahoogroups.com'
> Subject: RE: [TS-520_820_530_830] Looking for 455Khz Trio/Kenwood Crystal
> Filter
>
>
> Tate-
>
> The YG-455C-1, which is a YG-455C on a carrier board with connectors, will
> fit in the TS-830S if it is removed (unsolder) from its carrier board. The
> two filters are identical except for the carrier board. YG-455C-1 filters
> are readily available on eBay and elsewhere.
>
> -Dick-
> N3XRU
>
> _____
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> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Tate Antrim
> Sent: Sunday, October 04, 2009 6:39 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Looking for 455Khz Trio/Kenwood Crystal Filter
>
>
>
>
> If you have the solder in YG-455C filter that fits the TS-830S and are
> willing to part with it, I'm looking for one. Please contact me off list.
>
> Thanks
>
> KD8HJA
>
> Tate
>
> [Non-text portions of this message have been removed]
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>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

23036. Re: 520S has low power on high (frequency) bands.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-21 13:13:15 UTC
From: larry202br
Topic: 23021 Message: 23036

Cleaning the switches didn't help. I do noticed that the signal strength at RF UNIT TP2 is stronger on the weaker bands, no doubt due to the lack of ALC. the signal at TP1 is hard to read, as my 10pf scope probe loads it down, and I don't have a 3 pf RF voltmeter. I suppose it's possible that the new coil pack unit is defective, and is causing the weak transmit, in spite of the fact that it tunes and peaks normally. I'm stuck again, for now anyway.

--- In TS-520_820_530_830@yahoogroups.com, "larry202br" <kc0skx@...> wrote:
>
> I've been working this one for some time. someone got in there before me, and destroyed traces and lands, and damaged the switch on the drive coil unit. I tried to repair it, but it was too far gone. I got another drive coil unit, and now it aligns properly, but I have very low power on bands above 14. I have tried four different 12BY7's, to no avail. I can see that the power out of the 12BY7 is low on those bands, looking at the DRV signal with a scope. I'm trying to troubleshoot the input to the driver, so I don't have a good feel for those signal levels yet. I can say that the level at TP3 is good.
>
> Does anyone have any ideas?
>

23037. RE: [TS-520_820_530_830] TS-830M TX Tuning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-21 14:11:49 UTC
From: Greg Anders
Topic: 23034 Message: 23037

Hi Chris,

Output will vary with plate current especially if your measurements were on an antenna not a dummy load. Any antenna with more than 1:1 SWR will require different tuning on the plate tank circuit to reach max. output. For reference I have owned 4 830S radios and found the following.

1. Into a dummy load 1:1 SWR@50ohms AND new/good finals I would usually see 100-110W @ around 220-230ma.

2. Into a dummy load with weaker finals I would see the peak output lower (90-95W) at slightly higher plate current.

3. Quality of the HV supply filter caps also affect the max output current. Check the sag on the HV when you tune for maximum output. I didn't see HV lower than ~800V at full output with good finals and new filter caps.

Hope this helps,

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of sv0xbq
Sent: Wednesday, October 21, 2009 1:08 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS-830M TX Tuning

Hi Folks,

After using a TS-520SE for some time I'm now finding my way around a TS-830M that I picked up off Ebay in Italy. Apart from a dry joint in the finals and a dirty band switch it's in very good condition.

I'm following the tune up summary in the manual which ends up with you peaking the RF using the plate and load controls. I get around 110 watts out but if I then go back and check the plate current I'm seeing around 280 mA. Isn't this a tad high?
With my 520 I get max power of 95 watts at around 235 mA plate current and if I increase the load to give a plate current above this figure the power falls off. Bias is set to 60mA on the 830.

Chris SV0XBQ/9

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23038. Re: [TS-520_820_530_830] TS-830M TX Tuning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-21 15:33:22 UTC
From: Chris and Alex
Topic: 23034 Message: 23038

Thanks Greg,
My measurements are taken when I'm using a dummy load. I was a little concerned at the 280 mA plate current but having had time to think about it, when you tune up, the rig is transmitting at 100% duty and that doesn't reflect operational use. I've been on 20m psk this afternoon while keeping the plate current at around 180mA and everything looks fine.
Chris SV0XBQ/9

2009/10/21 Greg Anders <greg.anders@...>

>
>
> Hi Chris,
>
> Output will vary with plate current especially if your measurements were on
> an antenna not a dummy load. Any antenna with more than 1:1 SWR will require
> different tuning on the plate tank circuit to reach max. output. For
> reference I have owned 4 830S radios and found the following.
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> 1. Into a dummy load 1:1 SWR@50ohms AND new/good finals I would usually
> see 100-110W @ around 220-230ma.
>
> 2. Into a dummy load with weaker finals I would see the peak output lower
> (90-95W) at slightly higher plate current.
>
> 3. Quality of the HV supply filter caps also affect the max output current.
> Check the sag on the HV when you tune for maximum output. I didn't see HV
> lower than ~800V at full output with good finals and new filter caps.
>
> Hope this helps,
>
> Greg
> KG6YV
>
> From: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>[mailto:
> TS-520_820_530_830@yahoogroups.com <TS-520_820_530_830%40yahoogroups.com>]
> On Behalf Of sv0xbq
> Sent: Wednesday, October 21, 2009 1:08 AM
> To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> Subject: [TS-520_820_530_830] TS-830M TX Tuning
>
> Hi Folks,
>
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> TS-830M that I picked up off Ebay in Italy. Apart from a dry joint in the

> finals and a dirty band switch it's in very good condition.
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> I'm following the tune up summary in the manual which ends up with you
> peaking the RF using the plate and load controls. I get around 110 watts out
> but if I then go back and check the plate current I'm seeing around 280 mA.
> Isn't this a tad high?
> With my 520 I get max power of 95 watts at around 235 mA plate current and
> if I increase the load to give a plate current above this figure the power
> falls off. Bias is set to 60mA on the 830.
>
> Chris SV0XBQ/9
>
> [Non-text portions of this message have been removed]
>
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[Non-text portions of this message have been removed]

23039. Re: Meter TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-21 13:19:06 UTC
From: kingtygr
Topic: 23032 Message: 23039

I can take one for you this afternoon if someone doesn't get to it first, mine is the 520SE though so I am not sure if the meters changed between models or not.

Paul
KE7TYY

--- In TS-520_820_530_830@yahoogroups.com, "loewensteijn@..." <zl2ml@...> wrote:
>
> On both TS-520 meters the red high voltage markings have almost totally faded away.
>
> Is there someone who has one of these meters defunct but has a good scale? Is it possible to take a high resolution photograph of the whole scale and email it to me? Address in QRZ is correct.
>
> Many thanks in advance, Marinus, ZL2ML
>

23040. RE: [TS-520_820_530_830] TS-830M TX Tuning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-21 16:10:12 UTC
From: Greg Anders
Topic: 23034 Message: 23040

Hi Chris,

I would still suspect that 280ma for 110W output on CW indicates either that the finals are not new and/or the HV is sagging a bit more due to age of electrolytics.
I used to get 110W with new finals and caps at around 220-230ma. HV would sag a little from 850V to around 800.

Of course, if your power mains are lower than mine were that could also result in lower HV under load.

Cheers,

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Chris and Alex
Sent: Wednesday, October 21, 2009 8:33 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS-830M TX Tuning

Thanks Greg,
My measurements are taken when I'm using a dummy load. I was a little
concerned at the 280 mA plate current but having had time to think about it,
when you tune up, the rig is transmitting at 100% duty and that doesn't
reflect operational use. I've been on 20m psk this afternoon while keeping
the plate current at around 180mA and everything looks fine.
Chris SV0XBQ/9

2009/10/21 Greg Anders <greg.anders@...<mailto:greg.anders%40synopsys.com>>

>
>
> Hi Chris,
>
> Output will vary with plate current especially if your measurements were on
> an antenna not a dummy load. Any antenna with more than 1:1 SWR will require
> different tuning on the plate tank circuit to reach max. output. For
> reference I have owned 4 830S radios and found the following.
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> 1. Into a dummy load 1:1 SWR@50ohms AND new/good finals I would usually
> see 100-110W @ around 220-230ma.
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> 2. Into a dummy load with weaker finals I would see the peak output lower
> (90-95W) at slightly higher plate current.
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> 3. Quality of the HV supply filter caps also affect the max output current.

> Check the sag on the HV when you tune for maximum output. I didn't see HV
> lower than ~800V at full output with good finals and new filter caps.
>
> Hope this helps,
>
> Greg
> KG6YV
>
> From: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com><TS
-520_820_530_830%40yahoogroups.com>[mailto:
> TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
<TS-520_820_530_830%40yahoogroups.com>]
> On Behalf Of sv0xbq
> Sent: Wednesday, October 21, 2009 1:08 AM
> To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com><TS-5
20_820_530_830%40yahoogroups.com>
> Subject: [TS-520_820_530_830] TS-830M TX Tuning
>
> Hi Folks,
>
> After using a TS-520SE for some time I'm now finding my way around a
> TS-830M that I picked up off Ebay in Italy. Apart from a dry joint in the
> finals and a dirty band switch it's in very good condition.
>
> I'm following the tune up summary in the manual which ends up with you
> peaking the RF using the plate and load controls. I get around 110 watts out
> but if I then go back and check the plate current I'm seeing around 280 mA.
> Isn't this a tad high?
> With my 520 I get max power of 95 watts at around 235 mA plate current and
> if I increase the load to give a plate current above this figure the power
> falls off. Bias is set to 60mA on the 830.
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> Chris SV0XBQ/9
>
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[Non-text portions of this message have been removed]

23041. Re: [TS-520_820_530_830] TS-830M TX Tuning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-21 16:23:32 UTC
From: Chris and Alex
Topic: 23034 Message: 23041

Hi Greg,
HV doesn't seem to sag a lot although someone has replace the HV caps with physically small 450 volt 100 mic ones. I've already ordered new. I've got spare tubes but I'll live with these for now if they can put out 110 watts.

73
Chris SV0XBQ/9

2009/10/21 Greg Anders <greg.anders@...>

>
>
> Hi Chris,
>
> I would still suspect that 280ma for 110W output on CW indicates either
> that the finals are not new and/or the HV is sagging a bit more due to age
> of electrolytics.
> I used to get 110W with new finals and caps at around 220-230ma. HV would
> sag a little from 850V to around 800.
>
> Of course, if your power mains are lower than mine were that could also
> result in lower HV under load.
>
> Cheers,
>
> Greg
> KG6YV
>
> From: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>[mailto:
> TS-520_820_530_830@yahoogroups.com <TS-520_820_530_830%40yahoogroups.com>]
> On Behalf Of Chris and Alex
> Sent: Wednesday, October 21, 2009 8:33 AM
>
> To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> Subject: Re: [TS-520_820_530_830] TS-830M TX Tuning
>
> Thanks Greg,
> My measurements are taken when I'm using a dummy load. I was a little
> concerned at the 280 mA plate current but having had time to think about
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> reflect operational use. I've been on 20m psk this afternoon while keeping
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> Chris SV0XBQ/9
>
> 2009/10/21 Greg Anders <greg.anders@...<greg.anders%40synopsys.com>

> <mailto:greg.anders%40synopsys.com <greg.anders%2540synopsys.com>>>
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> > Greg
> > KG6YV
> >
> > From: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com<TS-520_820_530_830%2540yahoogroups.com>
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> > On Behalf Of sv0xbq
> > Sent: Wednesday, October 21, 2009 1:08 AM
> > To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
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23042. RE: [TS-520_820_530_830] TS-830M TX Tuning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-21 16:25:48 UTC
From: Greg Anders
Topic: 23034 Message: 23042

I don't think you have a major problem, I wouldn't worry. It may be that the finals are just not 100%...

Greg

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Chris and Alex
Sent: Wednesday, October 21, 2009 9:24 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS-830M TX Tuning

Hi Greg,
HV doesn't seem to sag a lot although someone has replace the HV caps with physically small 450 volt 100 mic ones. I've already ordered new. I've got spare tubes but I'll live with these for now if they can put out 110 watts.

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Chris SV0XBQ/9

2009/10/21 Greg Anders <greg.anders@...<mailto:greg.anders%40synopsys.com>>

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> Hi Chris,
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> I used to get 110W with new finals and caps at around 220-230ma. HV would
> sag a little from 850V to around 800.
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> Of course, if your power mains are lower than mine were that could also
> result in lower HV under load.
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> On Behalf Of Chris and Alex
> Sent: Wednesday, October 21, 2009 8:33 AM
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23043. what is the type and where do i get one -

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-21 21:23:01 UTC
From: jon
Topic: 23043 Message: 23043

what the type and where do i get one a speaker plug cable for a sp230 for a ts830s . thank you .

kg6nxx jon.

23044. Re: TS-830M TX Tuning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-21 22:39:35 UTC
From: w5rkl
Topic: 23034 Message: 23044

Chris,

I recommend not powering up the 830 until the HV filter capacitors are replaced with capacitors having a voltage rating of at least 500VDC each.

The HV supply in the 830 is a voltage doubling supply. The filter capacitors are wired in series.

You can determine the voltage applied to each capacitor by using the following formula. You will need to know the transformer's HV AC voltage plus the individual capacitor values as well as the total capacitance.

The individual capacitor values are 50ufd each cap.
Total capacitance is 50ufd.

Formula Legend:

TC = "Total Capacitance"

ICV = "Individual Capacitor Value"

ATV = "Applied Transformer Voltage"

VAEC = "Voltage Applied Each Capacitor."

Formula:

TC / ICV x ATV = VAEC

Use the formula "twice", once for each capacitor.

That's my 2 cents worth.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Greg Anders <greg.anders@...> wrote:
>
> I don't think you have a major problem, I wouldn't worry. It may be that the finals are just not 100%...
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> Greg
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> Sent: Wednesday, October 21, 2009 9:24 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] TS-830M TX Tuning
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23045. Re: [TS-520_820_530_830] Re: TS-830M TX Tuning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-21 22:53:06 UTC
From: n6wk@n6wk.com
Topic: 23034 Message: 23045

Hi Mike,
Every 830 I have seen has individual HV Caps that are 100ufd ....not 50ufd.
I usually replace them with 180ufd @ 500volts Caps.
Chris,
The NEW capacitors are Physically shorter then the original caps due to
new technology.

73,
Gordon
N6WK

w5rkl wrote:
>
>
> Chris,
>
> I recommend not powering up the 830 until the HV filter capacitors are
> replaced with capacitors having a voltage rating of at least 500VDC each.
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> The HV supply in the 830 is a voltage doubling supply. The filter
> capacitors are wired in series.
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> You can determine the voltage applied to each capacitor by using the
> following formula. You will need to know the transformer's HV AC
> voltage plus the individual capacitor values as well as the total
> capacitance.
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> The individual capacitor values are 50ufd each cap.
> Total capacitance is 50ufd.
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> Formula Legend:
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> TC = "Total Capacitance"
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> Formula:
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> TC / ICV x ATV = VAEC
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> Use the formula "twice", once for each capacitor.

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> That's my 2 cents worth.
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> > > > Sent: Wednesday, October 21, 2009 1:08 AM
> > > > To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.co
m><TS-520_820_530_830%40yahoogroups.com>
> > >
> <mailto:TS-520_820_530_830%40yahoogroups.com<TS-520_820_530_830%2540yahoogroups.com>
> > > ><TS-520_820_530_830%40yahoogroups.com>
> > > > Subject: [TS-520_820_530_830] TS-830M TX Tuning
> > > >
> > > > Hi Folks,
> > > >
> > > > After using a TS-520SE for some time I'm now finding my way around a

> > > > TS-830M that I picked up off Ebay in Italy. Apart from a dry
> joint in the
> > > > > finals and a dirty band switch it's in very good condition.
> > > > >
> > > > > I'm following the tune up summary in the manual which ends up
> with you
> > > > > peaking the RF using the plate and load controls. I get around
> 110 watts
> > > out
> > > > > but if I then go back and check the plate current I'm seeing
> around 280
> > > mA.
> > > > > Isn't this a tad high?
> > > > > With my 520 I get max power of 95 watts at around 235 mA plate
> current
> > > and
> > > > > if I increase the load to give a plate current above this figure the
> > > power
> > > > > falls off. Bias is set to 60mA on the 830.
> > > > >
> > > > > Chris SV0XBQ/9
> > > > >
> > > > > [Non-text portions of this message have been removed]
> > > > >
> > > > >
> > > > >
> > > >
> > > [Non-text portions of this message have been removed]
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> > > [Non-text portions of this message have been removed]
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> > [Non-text portions of this message have been removed]
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> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>

23046. RE: [TS-520_820_530_830] Re: TS-830M TX Tuning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-21 23:05:48 UTC
From: Greg Anders
Topic: 23034 Message: 23046

True, I have never seen an 830S with individual 50 uf caps. I think Mike's thinking was right, the typewriter made the mistake. Two 100's in series = 50uf total which is what he typed.

FYI, it's probably OK to use 180's in series which gives you a bit more (90 when put in series). However, I don't subscribe to replacing 100uf caps with say 300uf individual caps which ARE available today in nice sized packaging. The reason is that drastically increasing the capacity in a filter will increase inrush current which the original power transformer was not spec'd to handle. It's a good way to blow power transformers over time. It might power up a few times but eventually that inrush "kick" is likely to cause transformer failure. Besides which the individual bleeders would have to be re-sized if you go too far with an increase of the filter cap size. A case where a bit more is better but a lot more= BOOM/FIZZ/SMOKE eventually.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n6wk@...
Sent: Wednesday, October 21, 2009 3:53 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: TS-830M TX Tuning

Hi Mike,
Every 830 I have seen has individual HV Caps that are 100ufd ....not 50ufd.
I usually replace them with 180ufd @ 500volts Caps.
Chris,
The NEW capacitors are Physically shorter then the original caps due to
new technology.

73,
Gordon
N6WK

w5rkl wrote:
>
>
> Chris,
>
> I recommend not powering up the 830 until the HV filter capacitors are
> replaced with capacitors having a voltage rating of at least 500VDC each.
>
> The HV supply in the 830 is a voltage doubling supply. The filter
> capacitors are wired in series.
>
> You can determine the voltage applied to each capacitor by using the

> following formula. You will need to know the transformer's HV AC
> voltage plus the individual capacitor values as well as the total
> capacitance.
>
> The individual capacitor values are 50ufd each cap.
> Total capacitance is 50ufd.
>
> Formula Legend:
>
> TC = "Total Capacitance"
>
> ICV = "Individual Capacitor Value"
>
> ATV = "Applied Transformer Voltage"
>
> VAEC = "Voltage Applied Each Capacitor."
>
> Formula:
>
> TC / ICV x ATV = VAEC
>
> Use the formula "twice", once for each capacitor.
>
> That's my 2 cents worth.
>
> 73's
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com>, Greg Anders
> <greg.anders@...> wrote:
> >
> > I don't think you have a major problem, I wouldn't worry. It may be
> that the finals are just not 100%...
> >
> > Greg
> >
> > From: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> [mailto:TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of Chris and Alex
> > Sent: Wednesday, October 21, 2009 9:24 AM
> > To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > Subject: Re: [TS-520_820_530_830] TS-830M TX Tuning
> >
> >
> >
> > Hi Greg,
> > HV doesn't seem to sag a lot although someone has replace the HV

> caps with
> > physically small 450 volt 100 mic ones. I've already ordered new.
> I've got
> > spare tubes but I'll live with these for now if they can put out 110
> watts.
> >
> > 73
> > Chris SV0XBQ/9
> >
> > 2009/10/21 Greg Anders
> <greg.anders@...<mailto:greg.anders%40synopsys.com>>
> >
> > >
> > >
> > > Hi Chris,
> > >
> > > I would still suspect that 280ma for 110W output on CW indicates
> either
> > > that the finals are not new and/or the HV is sagging a bit more
> due to age
> > > of electrolytics.
> > > I used to get 110W with new finals and caps at around 220-230ma.
> HV would
> > > sag a little from 850V to around 800.
> > >
> > > Of course, if your power mains are lower than mine were that could
> also
> > > result in lower HV under load.
> > >
> > > Cheers,
> > >
> > > Greg
> > > KG6YV
> > >
> > > From:
TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.co
m><TS-520_820_530_830%40yahoogroups.com>[mailto:
> > > TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
>
<mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com>
> <TS-520_820_530_830%40yahoogroups.com>]
> > > On Behalf Of Chris and Alex
> > > Sent: Wednesday, October 21, 2009 8:33 AM
> > >
> > > To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.co
m><TS-520_820_530_830%40yahoogroups.com>
> > > Subject: Re: [TS-520_820_530_830] TS-830M TX Tuning
> > >

> > > Thanks Greg,
> > > My measurements are taken when I'm using a dummy load. I was a little
> > > concerned at the 280 mA plate current but having had time to think
> about
> > > it,
> > > when you tune up, the rig is transmitting at 100% duty and that
> doesn't
> > > reflect operational use. I've been on 20m psk this afternoon while
> keeping
> > > the plate current at around 180mA and everything looks fine.
> > > Chris SV0XBQ/9
> > >
> > > 2009/10/21 Greg Anders
> <greg.anders@...<mailto:greg.anders%40synopsys.com><greg.anders%40synopsys.com>
> > > <mailto:greg.anders%40synopsys.com <greg.anders%2540synopsys.com>>>
> > >
> > > >
> > > >
> > > > Hi Chris,
> > > >
> > > > Output will vary with plate current especially if your
> measurements were
> > > on
> > > > an antenna not a dummy load. Any antenna with more than 1:1 SWR will
> > > require
> > > > different tuning on the plate tank circuit to reach max. output. For
> > > > reference I have owned 4 830S radios and found the following.
> > > >
> > > > 1. Into a dummy load 1:1 SWR@50ohms AND new/good finals I would
> usually
> > > > see 100-110W @ around 220-230ma.
> > > >
> > > > 2. Into a dummy load with weaker finals I would see the peak
> output lower
> > > > (90-95W) at slightly higher plate current.
> > > >
> > > > 3. Quality of the HV supply filter caps also affect the max output
> > > current.
> > > > Check the sag on the HV when you tune for maximum output. I
> didn't see HV
> > > > lower than ~800V at full output with good finals and new filter
> caps.
> > > >
> > > > Hope this helps,
> > > >
> > > > Greg
> > > > KG6YV
> > > >
> > > > From:
TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>

> <mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.co
m><TS-520_820_530_830%40yahoogroups.com>
> > >
> <mailto:TS-520_820_530_830%40yahoogroups.com<TS-520_820_530_830%2540yahoogroups.com>
> > > ><TS-520_820_530_830%40yahoogroups.com>[mailto:
> > > > TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.co
m><TS-520_820_530_830%40yahoogroups.com>
> > >
> <mailto:TS-520_820_530_830%40yahoogroups.com<TS-520_820_530_830%2540yahoogroups.com>>
> > > <TS-520_820_530_830%40yahoogroups.com>]
> > > > On Behalf Of sv0xbq
> > > > Sent: Wednesday, October 21, 2009 1:08 AM
> > > > To:
TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.co
m><TS-520_820_530_830%40yahoogroups.com>
> > >
> <mailto:TS-520_820_530_830%40yahoogroups.com<TS-520_820_530_830%2540yahoogroups.com>
> > > ><TS-520_820_530_830%40yahoogroups.com>
> > > > Subject: [TS-520_820_530_830] TS-830M TX Tuning
> > > >
> > > > Hi Folks,
> > > >
> > > > After using a TS-520SE for some time I'm now finding my way around a
> > > > TS-830M that I picked up off Ebay in Italy. Apart from a dry
> joint in the
> > > > finals and a dirty band switch it's in very good condition.
> > > >
> > > > I'm following the tune up summary in the manual which ends up
> with you
> > > > peaking the RF using the plate and load controls. I get around
> 110 watts
> > > out
> > > > but if I then go back and check the plate current I'm seeing
> around 280
> > > mA.
> > > > Isn't this a tad high?
> > > > With my 520 I get max power of 95 watts at around 235 mA plate
> current
> > > and
> > > > if I increase the load to give a plate current above this figure the
> > > power
> > > > falls off. Bias is set to 60mA on the 830.
> > > >
> > > > Chris SV0XBQ/9
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > > >

> > > >
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23047. Re: [TS-520_820_530_830] what is the type and where do i get one -

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-21 23:44:41 UTC
From: Bill Hart
Topic: 23043 Message: 23047

Radio Shack has them.
73,Bill
W5ZV

--- On Wed, 10/21/09, jon <kg6nxx@yahoo.com> wrote:

From: jon <kg6nxx@...>
Subject: [TS-520_820_530_830] what is the type and where do i get one -
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, October 21, 2009, 5:23 PM

what the type and where do i get one a speaker plug cable for a sp230 for a ts830s . thank you .

kg6nxx jon.

[Non-text portions of this message have been removed]

23048. Re: Relay

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-21 23:52:29 UTC
From: n6wk_skcc3
Topic: 22830 Message: 23048

Hi Ruben,
Relay arrived today.
Thank you VERY much.

73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria <ka2hhb_2000@...> wrote:
>
> My pleasure Gordon .... all the best 73
> (I'm doing better)
> Ruben Echevarria KA2HHB
> 070 Club#861 30MDG#1148
> 10-10#33308
>
>
>
>
> _____
> From: "n6wk@..." <n6wk@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sun, October 11, 2009 1:11:57 PM
> Subject: Re: [TS-520_820_530_830] Relay
>
>
> Thanks Ruben,
> I am sure I'll find a nice home for it in another 830.
> I appreciate your generosity.
> Hope you are feeling better.
> 73,
> Gordon
>
> Ruben Echevarria wrote:
> >
> >
> > I'll send it out to you anyway... on me....
> > It'll never see any use here .....
> > Ruben Echevarria KA2HHB
> > 070 Club#861 30MDG#1148
> > 10-10#33308
> >
> > _____ _____ _____ __
> > From: "n6wk@... <mailto:n6wk% 40n6wk.com> " <n6wk@...
> > <mailto:n6wk% 40n6wk.com> >

> > To: TS-520_820_530_ 830@yahoogroups. com
> > <mailto:TS-520_ 820_530_830% 40yahoogroups. com>
> > Sent: Sun, October 11, 2009 1:04:06 PM
> > Subject: Re: [TS-520_820_ 530_830] Relay
> >
> >
> > Hi Ruben,
> > Thanks, but I already found a Cover for the one I had.
> > I appreciate your efforts to help me out.
> > 73,
> > Gordon
> > N6WK
> >
> > Ruben Echevarria wrote:
> > > >
> > > >
> > > > Gordon I found the relay !!!
> > > > #351-4401-05 Still need it?
> > > > Ruben Echevarria KA2HHB
> > > > 070 Club#861 30MDG#1148
> > > > 10-10#33308
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > > >
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>
> [Non-text portions of this message have been removed]
>

23049. Re: [TS-520_820_530_830] Re: Relay

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-22 01:17:38 UTC
From: Ruben Echevarria
Topic: 22830 Message: 23049

My pleasure Gordon .....
 Ruben Echevarria KA2HHB
070 Club#861 30MDG#1148
10-10#33308

From: n6wk_skcc3 <n6wk@n6wk.com>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wed, October 21, 2009 7:52:29 PM
Subject: [TS-520_820_530_830] Re: Relay

Hi Ruben,
Relay arrived today.
Thank you VERY much.

73,
Gordon
N6WK

--- In TS-520_820_530_ 830@yahoogroups. com, Ruben Echevarria <ka2hhb_2000@ ...> wrote:
>
> My pleasure Gordon .... all the best 73
> (I'm doing better)
> Ruben Echevarria KA2HHB
> 070 Club#861 30MDG#1148
> 10-10#33308
>
>
>
>
> __________ _________ _________ __
> From: "n6wk@..." <n6wk@...>
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Sun, October 11, 2009 1:11:57 PM
> Subject: Re: [TS-520_820_ 530_830] Relay
>
>
> Thanks Ruben,
> I am sure I'll find a nice home for it in another 830.
> I appreciate your generosity.
> Hope you are feeling better.
> 73,
> Gordon
>
> Ruben Echevarria wrote:
> >

> >
> > I'll send it out to you anyway... on me....
> > It'll never see any use here .....
> > Ruben Echevarria KA2HHB
> > 070 Club#861 30MDG#1148
> > 10-10#33308
> >
> > _____ _____ _____ __
> > From: "n6wk@... <mailto:n6wk% 40n6wk.com> " <n6wk@...
> > <mailto:n6wk% 40n6wk.com> >
> > To: TS-520_820_530_ 830@yahoogroups. com
> > <mailto:TS-520_ 820_530_830% 40yahoogroups. com>
> > Sent: Sun, October 11, 2009 1:04:06 PM
> > Subject: Re: [TS-520_820_ 530_830] Relay
> >
> >
> > Hi Ruben,
> > Thanks, but I already found a Cover for the one I had.
> > I appreciate your efforts to help me out.
> > 73,
> > Gordon
> > N6WK
> >
> > Ruben Echevarria wrote:
> > >
> > >
> > > Gordon I found the relay !!!
> > > #351-4401-05 Still need it?
> > > Ruben Echevarria KA2HHB
> > > 070 Club#861 30MDG#1148
> > > 10-10#33308
> > >
> > > [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

23050. Re: Meter TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-22 00:47:35 UTC
From: kingtygr
Topic: 23032 Message: 23050

I have to apologize, I cannot get a good picture of the meter. I'm guessing you were thinking of simply printing it out and pasting it onto your existing meter to repair the fading?

I might be able to recreate the meter face another way, but it'd take some time.

Paul
KE7TYY

--- In TS-520_820_530_830@yahoogroups.com, "kingtygr" <jp.paul.allen@...> wrote:
>
> I can take one for you this afternoon if someone doesn't get to it first, mine is the 520SE though so I am not sure if the meters changed between models or not.
>
> Paul
> KE7TYY
>
> --- In TS-520_820_530_830@yahoogroups.com, "loewensteijn@" <zl2ml@> wrote:
> >
> > On both TS-520 meters the red high voltage markings have almost totally faded away.
> >
> > Is there someone who has one of these meters defunct but has a good scale? Is it possible to take a high resolution photograph of the whole scale and email it to me? Address in QRZ is correct.
> >
> > Many thanks in advance, Marinus, ZL2ML
> >
>

23051. Re: what is the type and where do i get one -

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-22 01:46:34 UTC
From: jon
Topic: 23043 Message: 23051

ok Thank You Bill W5ZV de KG6NXX Jon

--- In TS-520_820_530_830@yahoogroups.com, Bill Hart <billhart_1@...> wrote:
>
>
> Radio Shack has them.
> 73,Bill
> W5ZV
>
> --- On Wed, 10/21/09, jon <kg6nxx@...> wrote:
>
> From: jon <kg6nxx@...>
> Subject: [TS-520_820_530_830] what is the type and where do i get one -
> To: TS-520_820_530_830@yahoogroups.com
> Date: Wednesday, October 21, 2009, 5:23 PM
>
>
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>
> what the type and where do i get one a speaker plug cable for a sp230 for a ts830s .
thank you .
>
>
>
> kg6nxx jon.
>
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> [Non-text portions of this message have been removed]
>

23052. Re: TS-830M TX Tuning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-22 02:35:34 UTC
From: w5rkl
Topic: 23034 Message: 23052

The 50ufd is the total capacitance of "2" 100 ufd caps in "series". I messed up my editing... Sorry about that.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, n6wk@... wrote:
>
> Hi Mike,
> Every 830 I have seen has individual HV Caps that are 100ufd ....not 50ufd.
> I usually replace them with 180ufd @ 500volts Caps.
> Chris,
> The NEW capacitors are Physically shorter then the original caps due to
> new technology.
>
> 73,
> Gordon
> N6WK
>
>
>
> w5rkl wrote:
> >
> >
> > Chris,
> >
> > I recommend not powering up the 830 until the HV filter capacitors are
> > replaced with capacitors having a voltage rating of at least 500VDC each.
> >
> > The HV supply in the 830 is a voltage doubling supply. The filter
> > capacitors are wired in series.
> >
> > You can determine the voltage applied to each capacitor by using the
> > following formula. You will need to know the transformer's HV AC
> > voltage plus the individual capacitor values as well as the total
> > capacitance.
> >
> > The individual capacitor values are 50ufd each cap.
> > Total capacitance is 50ufd.
> >
> > Formula Legend:
> >
> > TC = "Total Capacitance"
> >
> > ICV = "Individual Capacitor Value"

> >
> > ATV = "Applied Transformer Voltage"
> >
> > VAEC = "Voltage Applied Each Capacitor."
> >
> > Formula:
> >
> > TC / ICV x ATV = VAEC
> >
> > Use the formula "twice", once for each capacitor.
> >
> > That's my 2 cents worth.
> >
> > 73's
> > Mike W5RKL
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, Greg Anders
> > <greg.anders@> wrote:
> > >
> > > I don't think you have a major problem, I wouldn't worry. It may be
> > that the finals are just not 100%...
> > >
> > > Greg
> > >
> > > From: TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>
> > [mailto:TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of Chris and Alex
> > > Sent: Wednesday, October 21, 2009 9:24 AM
> > > To: TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>
> > > Subject: Re: [TS-520_820_530_830] TS-830M TX Tuning
> > >
> > >
> > >
> > > Hi Greg,
> > > HV doesn't seem to sag a lot although someone has replace the HV
> > caps with
> > > physically small 450 volt 100 mic ones. I've already ordered new.
> > I've got
> > > spare tubes but I'll live with these for now if they can put out 110
> > watts.
> > >
> > > 73
> > > Chris SV0XBQ/9
> > >
> > > 2009/10/21 Greg Anders
> > <greg.anders@<mailto:greg.anders%40synopsys.com>>
> > >

> > > >
> > > >
> > > > Hi Chris,
> > > >
> > > > I would still suspect that 280ma for 110W output on CW indicates
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> > > > I used to get 110W with new finals and caps at around 220-230ma.
> > HV would
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> > > > Of course, if your power mains are lower than mine were that could
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> > > > result in lower HV under load.
> > > >
> > > > Cheers,
> > > >
> > > > Greg
> > > > KG6YV
> > > >
> > > > From: TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.
com><TS-520_820_530_830%40yahoogroups.com>[mailto:
> > > > TS-520_820_530_830@yahoogroups.com
> > >
<mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com>
> > <TS-520_820_530_830%40yahoogroups.com>]
> > > > On Behalf Of Chris and Alex
> > > > Sent: Wednesday, October 21, 2009 8:33 AM
> > > >
> > > > To: TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.
com><TS-520_820_530_830%40yahoogroups.com>
> > > > Subject: Re: [TS-520_820_530_830] TS-830M TX Tuning
> > > >
> > > > Thanks Greg,
> > > > My measurements are taken when I'm using a dummy load. I was a little
> > > > concerned at the 280 mA plate current but having had time to think
> > about
> > > > it,
> > > > when you tune up, the rig is transmitting at 100% duty and that
> > doesn't
> > > > reflect operational use. I've been on 20m psk this afternoon while
> > keeping
> > > > the plate current at around 180mA and everything looks fine.
> > > > Chris SV0XBQ/9
> > > >
> > > > 2009/10/21 Greg Anders

> > <greg.anders@<mailto:greg.anders%40synopsys.com><greg.anders%40synopsys.com>
> > > > <mailto:greg.anders%40synopsys.com <greg.anders%2540synopsys.com>>>
> > > >
> > > > >
> > > > >
> > > > > Hi Chris,
> > > > >
> > > > > Output will vary with plate current especially if your
> > measurements were
> > > > on
> > > > > an antenna not a dummy load. Any antenna with more than 1:1 SWR will
> > > > require
> > > > > different tuning on the plate tank circuit to reach max. output. For
> > > > > reference I have owned 4 830S radios and found the following.
> > > > >
> > > > > 1. Into a dummy load 1:1 SWR@50ohms AND new/good finals I would
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> > > > > see 100-110W @ around 220-230ma.
> > > > >
> > > > > 2. Into a dummy load with weaker finals I would see the peak
> > output lower
> > > > > (90-95W) at slightly higher plate current.
> > > > >
> > > > > 3. Quality of the HV supply filter caps also affect the max output
> > > > current.
> > > > > Check the sag on the HV when you tune for maximum output. I
> > didn't see HV
> > > > > lower than ~800V at full output with good finals and new filter
> > caps.
> > > > >
> > > > > Hope this helps,
> > > > >
> > > > > Greg
> > > > > KG6YV
> > > > >
> > > > > From: TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.
com><TS-520_820_530_830%40yahoogroups.com>
> > > > >
> > <mailto:TS-520_820_530_830%40yahoogroups.com<TS-520_820_530_830%2540yahoogroups.com>
> > > > > ><TS-520_820_530_830%40yahoogroups.com>[mailto:
> > > > > TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.
com><TS-520_820_530_830%40yahoogroups.com>
> > > > >
> > <mailto:TS-520_820_530_830%40yahoogroups.com<TS-520_820_530_830%2540yahoogroups.com>>
> > > > > <TS-520_820_530_830%40yahoogroups.com>]
> > > > > On Behalf Of sv0xbq
> > > > > Sent: Wednesday, October 21, 2009 1:08 AM
> > > > > To: TS-520_820_530_830@yahoogroups.com

> > <mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com><TS-520_820_530_830%40yahoogroups.com>
> > > >
> > <mailto:TS-520_820_530_830%40yahoogroups.com<TS-520_820_530_830%2540yahoogroups.com>
> > > > ><TS-520_820_530_830%40yahoogroups.com>
> > > > > Subject: [TS-520_820_530_830] TS-830M TX Tuning
> > > > > >
> > > > > > Hi Folks,
> > > > > >
> > > > > > After using a TS-520SE for some time I'm now finding my way around a
> > > > > > TS-830M that I picked up off Ebay in Italy. Apart from a dry
> > joint in the
> > > > > > finals and a dirty band switch it's in very good condition.
> > > > > >
> > > > > > I'm following the tune up summary in the manual which ends up
> > with you
> > > > > > peaking the RF using the plate and load controls. I get around
> > 110 watts
> > > > > out
> > > > > > but if I then go back and check the plate current I'm seeing
> > around 280
> > > > > mA.
> > > > > > Isn't this a tad high?
> > > > > > With my 520 I get max power of 95 watts at around 235 mA plate
> > current
> > > > and
> > > > > > if I increase the load to give a plate current above this figure the
> > > > power
> > > > > > falls off. Bias is set to 60mA on the 830.
> > > > > >
> > > > > > Chris SV0XBQ/9
> > > > > >
> > > > > > [Non-text portions of this message have been removed]
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> > > > >
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> > > >
> > > >
> > > > [Non-text portions of this message have been removed]
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> >
> >
>

23053. Re: TS-830M TX Tuning

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-22 04:10:53 UTC
From: sv0xbq
Topic: 23034 Message: 23053

Thanks for your thoughts on this everyone.

I've got a pair of Panasonic 150mic 500volt caps on the way that are the same diameter as the originals so it should look good. Interesting comment on the inrush current. I would have missed that.

Chris SV0XBQ/9

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
>
> The 50ufd is the total capacitance of "2" 100 ufd caps in "series". I messed up my editing... Sorry about that.
>
> 73's
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, n6wk@ wrote:
> >
> > Hi Mike,
> > Every 830 I have seen has individual HV Caps that are 100ufd ....not 50ufd.
> > I usually replace them with 180ufd @ 500volts Caps.
> > Chris,
> > The NEW capacitors are Physically shorter then the original caps due to
> > new technology.
> >
> > 73,
> > Gordon
> > N6WK
> >
> >
> >
> > w5rkl wrote:
> > >
> > >
> > > Chris,
> > >
> > > I recommend not powering up the 830 until the HV filter capacitors are
> > > replaced with capacitors having a voltage rating of at least 500VDC each.
> > >
> > > The HV supply in the 830 is a voltage doubling supply. The filter
> > > capacitors are wired in series.
> > >
> > > You can determine the voltage applied to each capacitor by using the
> > > following formula. You will need to know the transformer's HV AC

> > > voltage plus the individual capacitor values as well as the total
> > > capacitance.
> > >
> > > The individual capacitor values are 50ufd each cap.
> > > Total capacitance is 50ufd.
> > >
> > > Formula Legend:
> > >
> > > TC = "Total Capacitance"
> > >
> > > ICV = "Individual Capacitor Value"
> > >
> > > ATV = "Applied Transformer Voltage"
> > >
> > > VAEC = "Voltage Applied Each Capacitor."
> > >
> > > Formula:
> > >
> > > TC / ICV x ATV = VAEC
> > >
> > > Use the formula "twice", once for each capacitor.
> > >
> > > That's my 2 cents worth.
> > >
> > > 73's
> > > Mike W5RKL
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com
> > > <mailto:TS-520_820_530_830%40yahoogroups.com>, Greg Anders
> > > <greg.anders@> wrote:
> > > >
> > > > I don't think you have a major problem, I wouldn't worry. It may be
> > > that the finals are just not 100%...
> > > >
> > > > Greg
> > > >
> > > > From: TS-520_820_530_830@yahoogroups.com
> > > <mailto:TS-520_820_530_830%40yahoogroups.com>
> > > [mailto:TS-520_820_530_830@yahoogroups.com
> > > <mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of Chris and Alex
> > > > Sent: Wednesday, October 21, 2009 9:24 AM
> > > > To: TS-520_820_530_830@yahoogroups.com
> > > <mailto:TS-520_820_530_830%40yahoogroups.com>
> > > > Subject: Re: [TS-520_820_530_830] TS-830M TX Tuning
> > > >
> > > >
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> > > > 2009/10/21 Greg Anders
> > > <greg.anders@<mailto:greg.anders%40synopsys.com>>
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> > > > > Greg
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> > > <mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroup
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> > > > > Subject: Re: [TS-520_820_530_830] TS-830M TX Tuning
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> > > <greg.anders@<mailto:greg.anders%40synopsys.com><greg.anders%40synopsys.com>
> > > > > <mailto:greg.anders%40synopsys.com <greg.anders%2540synopsys.com>>>
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> > > > > > Hope this helps,
> > > > > >
> > > > > > Greg
> > > > > > KG6YV
> > > > > >
> > > > > > From: TS-520_820_530_830@yahoogroups.com
> > > <mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroup
s.com><TS-520_820_530_830%40yahoogroups.com>
> > > > >

> > > <mailto:TS-520_820_530_830%40yahoogroups.com<TS-520_820_530_830%2540yahoogroups.com>
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> > > > > <TS-520_820_530_830%40yahoogroups.com>]
> > > > > > On Behalf Of sv0xbq
> > > > > > Sent: Wednesday, October 21, 2009 1:08 AM
> > > > > > To: TS-520_820_530_830@yahoogroups.com
> > > <mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroup
s.com><TS-520_820_530_830%40yahoogroups.com>
> > > > >
> > > <mailto:TS-520_820_530_830%40yahoogroups.com<TS-520_820_530_830%2540yahoogroups.com>
> > > > > ><TS-520_820_530_830%40yahoogroups.com>
> > > > > > Subject: [TS-520_820_530_830] TS-830M TX Tuning
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> > > > > > Hi Folks,
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> > > > > > With my 520 I get max power of 95 watts at around 235 mA plate
> > > current
> > > > > > and
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> > > > > > power
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> > > > > > Chris SV0XBQ/9
> > > > > >
> > > > > > [Non-text portions of this message have been removed]
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>

23054. Re: Meter TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-22 14:56:04 UTC
From: larry202br
Topic: 23032 Message: 23054

There are automotive gauge repair companies that can restore old dash gauges, they may be able to do the same for you. If you take the meter out, and remove the front cover, you can use some automotive masking tape, like what is used by painters, and mask off the red portion of the meter face then repaint with red paint, or even some fingernail polish.

--- In TS-520_820_530_830@yahoogroups.com, "kingtygr" <jp.paul.allen@...> wrote:
>
> I have to apologize, I cannot get a good picture of the meter. I'm guessing you were thinking of simply printing it out and pasting it onto your existing meter to repair the fading?
>
> I might be able to recreate the meter face another way, but it'd take some time.
>
> Paul
> KE7TYY
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "kingtygr" <jp.paul.allen@> wrote:
> >
> > I can take one for you this afternoon if someone doesn't get to it first, mine is the 520SE though so I am not sure if the meters changed between models or not.
> >
> > Paul
> > KE7TYY
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "loewensteijn@" <zl2ml@> wrote:
> > >
> > > On both TS-520 meters the red high voltage markings have almost totally faded away.
> > >
> > > Is there someone who has one of these meters defunct but has a good scale? Is it possible to take a high resolution photograph of the whole scale and email it to me? Address in QRZ is correct.
> > >
> > > Many thanks in advance, Marinus, ZL2ML
> > >
> >
>

23055. Scanning Old Kenwood Manuals for Best Quality and yet resonable size

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-22 18:04:59 UTC
From: n6wk_skcc3
Topic: 23055 Message: 23055

What is the best method to scan Manuals to get them so they can be viewed or printed and still have great resolution without making the file size outrageous?
I have adobe Acrobat Pro and a Great HP scanner.
I want to be able to Zoom in on schematics and still have the print be readable.

Thanks,
Gordon

23056. Re: [TS-520_820_530_830] Scanning Old Kenwood Manuals for Best Quality and yet resonable size

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-22 18:08:09 UTC
From: Gordon JC Pearce
Topic: 23055 Message: 23056

On Thu, 2009-10-22 at 18:04 +0000, n6wk_skcc3 wrote:
> What is the best method to scan Manuals to get them so they can be viewed or printed and still have great resolution without making the file size outrageous?
> I have adobe Acrobat Pro and a Great HP scanner.
> I want to be able to Zoom in on schematics and still have the print be readable.
>
> Thanks,
> Gordon

Scan the images at high resolution greyscale, and OCR the printed text.
This takes a while, but it's got the advantage that the text is then
searchable.

Gordon MM0YEQ

23057. Re: 520S has low power on high (frequency) bands.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-22 18:59:22 UTC
From: larry202br
Topic: 23021 Message: 23057

I've made some progress on this. Even though I was using a tektronix probe, with 10 M ohm input impedance and 10 pf capacitance, it seems that probe was loading down the signal at the DRV point. I hesitated to tune with the probe, as there was no ALC deflection on the higher bands. I removed the probe and started tweaking the coils, and eventually got some ALC, so things are looking up! I'll move on to turning on the SG tonight, and checking power out.

--- In TS-520_820_530_830@yahoogroups.com, "larry202br" <kc0skx@...> wrote:
>
> Cleaning the switches didn't help. I do noticed that the signal strength at RF UNIT TP2 is stronger on the weaker bands, no doubt due to the lack of ALC. the signal at TP1 is hard to read, as my 10pf scope probe loads it down, and I don't have a 3 pf RF voltmeter. I suppose it's possible that the new coil pack unit is defective, and is causing the weak transmit, in spite of the fact that it tunes and peaks normally. I'm stuck again, for now anyway.
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "larry202br" <kc0skx@> wrote:
> > >
> > > I've been working this one for some time. someone got in there before me, and destroyed traces and lands, and damaged the switch on the drive coil unit. I tried to repair it, but it was too far gone. I got another drive coil unit, and now it aligns properly, but I have very low power on bands above 14. I have tried four different 12BY7's, to no avail. I can see that the power out of the 12BY7 is low on those bands, looking at the DRV signal with a scope. I'm trying to troubleshoot the input to the driver, so I don't have a good feel for those signal levels yet. I can say that the level at TP3 is good.
> > >
> > > Does anyone have any ideas?
> > >
>

23058. Re: [TS-520_820_530_830] Scanning Old Kenwood Manuals for Best Quality and yet resonable size

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-22 19:08:19 UTC
From: Chris and Alex
Topic: 23055 Message: 23058

Hi Gordon,
Resize the images at 72 dpi. This will reduce the size of the files and
still leave them readable.

Chris

2009/10/22 Gordon JC Pearce <gordon@...>

>
>
> On Thu, 2009-10-22 at 18:04 +0000, n6wk_skcc3 wrote:
> > What is the best method to scan Manuals to get them so they can be viewed
> or printed and still have great resolution without making the file size
> outrageous?
> > I have adobe Acrobat Pro and a Great HP scanner.
> > I want to be able to Zoom in on schematics and still have the print be
> readable.
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> > Thanks,
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> Scan the images at high resolution greyscale, and OCR the printed text.
> This takes a while, but it's got the advantage that the text is then
> searchable.
>
> Gordon MM0YEQ
>
>
>

[Non-text portions of this message have been removed]

23059. Re: [TS-520_820_530_830] Scanning Old Kenwood Manuals for Best Quality and yet resonable size

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-22 19:31:54 UTC
From: n6wk@n6wk.com
Topic: 23055 Message: 23059

Thanks Chris,
but what resolution do you suggest I do the originals at?
I am thinking maybe 300 or 600 dpi and then resize down to 72, but will
it still be readable when I zoom in on the Schematics this way?

Gordon

Chris and Alex wrote:
>
>
> Hi Gordon,
> Resize the images at 72 dpi. This will reduce the size of the files and
> still leave them readable.
>
> Chris
>
> 2009/10/22 Gordon JC Pearce <gordon@... <mailto:gordon%40gjcp.net>>
>
> >
> >
> > On Thu, 2009-10-22 at 18:04 +0000, n6wk_skcc3 wrote:
> > > What is the best method to scan Manuals to get them so they can be
> viewed
> > > or printed and still have great resolution without making the file size
> > > outrageous?
> > > > I have adobe Acrobat Pro and a Great HP scanner.
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> > > > Thanks,
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> > > Scan the images at high resolution greyscale, and OCR the printed text.
> > > This takes a while, but it's got the advantage that the text is then
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> > >
> > > Gordon MM0YEQ
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> > [Non-text portions of this message have been removed]
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> Messages in this topic
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> (3) Reply (via web post)
> <http://groups.yahoo.com/group/TS-520_820_530_830/post;_ylc=X3oDMTJxaXRvZjg2BF9TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzIzMDU4BHNlYwNmdHIEc2xrA3JwbHkEc3RpbWUDMTI1NjIzODUwOA--?act=reply&messageNum=23058>
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> Messages
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> (Yahoo! ID required)
> Change settings via email: Switch delivery to Daily Digest
> <mailto:TS-520_820_530_830-digest@yahoogroups.com?subject=Email%20Delivery:%20Digest>
> | Switch format to Traditional
> <mailto:TS-520_820_530_830-traditional@yahoogroups.com?subject=Change%20Delivery%20Format:%20Traditional>
>
> Visit Your Group

> <http://groups.yahoo.com/group/TS-520_820_530_830;_ylc=X3oDMTJkZm1rZzI2BF9TAzk3MzU5NzE0B
GdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA2hwZgRzdGltZQMxMjU2MjM4NTA4>
> | Yahoo! Groups Terms of Use <http://docs.yahoo.com/info/terms/> |
> Unsubscribe
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=>
> Recent Activity
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> New Members
> <http://groups.yahoo.com/group/TS-520_820_530_830/members;_ylc=X3oDMTJmbnBoZzQxBF9TAzk3M
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> Give Back
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> Yahoo! for Good
> <http://us.lrd.yahoo.com/_ylc=X3oDMTJtcnFuNDdwBF9TAzk3MzU5NzE0BF9wAzEEZ3JwSWQDNzUyNTAyMQ
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> Get inspired
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> by a good cause.
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> Get it Free!
> <http://us.lrd.yahoo.com/_ylc=X3oDMTJvYWZiaHJrBF9TAzk3MzU5NzE0BF9wAzIEZ3JwSWQDNzUyNTAyMQ
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> easy 1-click access
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> to your groups.
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> Start a group
> <http://groups.yahoo.com/start;_ylc=X3oDMTJvdmJlZHNhBF9TAzk3MzU5NzE0BF9wAzMEZ3JwSWQDNzUy
NTAyMQRncnBzcElkAzE3MDUwNjMxMDgEc2VjA25jbW9kBHNsawNncm91cHMyBHN0aW1lAzEyNTYyMzg1MDg->
>
> in 3 easy steps.
>
> Connect with others.

>

23060. Re: [TS-520_820_530_830] Scanning Old Kenwood Manuals for Best Quality and yet resonable size

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-22 19:55:01 UTC
From: Jon
Topic: 23055 Message: 23060

For the schematics I suggest a good digital camera and a macro lens and
save as a jpeg....1.2MB file size at 6 MPixals or better should be quite
detailed.

Some of the older DSLR's would be perfect for this....

73,
Jon
KD5SFA

On 10/22/09, n6wk@... <n6wk@...> wrote:
>
>
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> Thanks Chris,
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> > 2009/10/22 Gordon JC Pearce <gordon@... <gordon%40gjcp.net><mailto:
> gordon%40gjcp.net <gordon%2540gjcp.net>>>
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> > Messages in this topic
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> > (3) Reply (via web post)
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> http://groups.yahoo.com/group/TS-520_820_530_830/post;_ylc=X3oDMTJxaXRvZjg2BF9TAzk3MzU5N
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> > | Start a new topic
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> http://groups.yahoo.com/group/TS-520_820_530_830/post;_ylc=X3oDMTJldDI5bDJpBF9TAzk3MzU5N
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>
> > (Yahoo! ID required)
> > Change settings via email: Switch delivery to Daily Digest
> > <mailto:TS-520_820_530_830-digest@yahoogroups.com<TS-520_820_530_830-digest%40yahoogroups.com>?subject=Email%20Delivery:%20Digest>
>
> > | Switch format to Traditional
> > <mailto:TS-520_820_530_830-traditional@yahoogroups.com<TS-520_820_530_830-traditional%40yahoogroups.com>?subject=Change%20Delivery%20Format:%20Traditional>
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> > Visit Your Group
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> http://groups.yahoo.com/group/TS-520_820_530_830;_ylc=X3oDMTJkZm1rZzI2BF9TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA2hwZgRzdGltZQMxMjU2MjM4NTA4>
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> > | Yahoo! Groups Terms of Use <http://docs.yahoo.com/info/terms/> |
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> > <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com<TS-520_820_530_830-unsubscribe%40yahoogroups.com>
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> > Recent Activity
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> > Give Back
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> > Yahoo! for Good
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> > Get inspired
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> > by a good cause.
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> > Y! Toolbar
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> http://us.lrd.yahoo.com/_ylc=X3oDMTJvYWZiaHJrBF9TAzk3MzU5NzE0BF9wAzIEZ3JwSWQDNzUyNTAyMQR
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> > easy 1-click access
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> > Start a group
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> > Connect with others.
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[Non-text portions of this message have been removed]

23061. Re: [TS-520_820_530_830] Scanning Old Kenwood Manuals for Best Quality and yet resonable size

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-22 23:17:09 UTC
From: pmarkavage
Topic: 23055 Message: 23061

Scan the originals using gray scale with a resolution no more then 100 to
150 dpi. Scanning at a higher resolution, 300, 600, or 1200 and then
resizing back down doesn't really buy you much. Don't scan in true color,
256 color, etc. If you scan at too high of a resolution, you start
scanning the texture of the paper that has the printed text or drawings.
The majority of all papers are not "true" white and with age, the paper
also tends to discolor. Also, if the paper is thin, and you scan a high
resolution, you may also scan the backside of the paper where there may
be areas with lots of print or photos, and it will either bleed through
and/or cause shadows to the side you really want to scan.

Pete, wa2cwa

On Thu, 22 Oct 2009 12:31:54 -0700 n6wk@... writes:
> Thanks Chris,
> but what resolution do you suggest I do the originals at?
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23062. Re: [TS-520_820_530_830] Scanning Old Kenwood Manuals for Best Quality and yet resonable size

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-22 23:23:32 UTC
From: n6wk@n6wk.com
Topic: 23055 Message: 23062

Thanks Pete,
I will give that a try.
What about the Schematics that have Circuits shown in Red or Voltages
shown in red? Shouldn't they be in Color?

Gordon
N6WK

pmarkavage wrote:
>
>
> Scan the originals using gray scale with a resolution no more then 100 to
> 150 dpi. Scanning at a higher resolution, 300, 600, or 1200 and then
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23063. RE: [TS-520_820_530_830] Re: Meter TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-23 00:12:43 UTC
From: Kevin King
Topic: 23032 Message: 23063

I tried to find it. But I had a link to software that had reproductions of meter faces and or draw your own. Dang if I can not find it.

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of kingtygr
Sent: Wednesday, October 21, 2009 8:48 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: Meter TS-520

I have to apologize, I cannot get a good picture of the meter. I'm guessing you were thinking of simply printing it out and pasting it onto your existing meter to repair the fading?

I might be able to recreate the meter face another way, but it'd take some time.

Paul
KE7TYY

--- In TS-520_820_530_830@yahoogroups.com, "kingtygr" <jp.paul.allen@...> wrote:
>
> I can take one for you this afternoon if someone doesn't get to it first, mine is the 520SE though so I am not sure if the meters changed between models or not.
>
> Paul
> KE7TYY
>
> --- In TS-520_820_530_830@yahoogroups.com, "loewensteijn@" <zl2ml@> wrote:
> >
> > On both TS-520 meters the red high voltage markings have almost totally faded away.
> >
> > Is there someone who has one of these meters defunct but has a good scale? Is it possible to take a high resolution photograph of the whole scale and email it to me? Address in QRZ is correct.
> >
> > Many thanks in advance, Marinus, ZL2ML
> >
>

Yahoo! Groups Links

23064. RE: [TS-520_820_530_830] Re: Meter TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-23 00:20:32 UTC
From: Lou Blasco
Topic: 23032 Message: 23064

You can use Galva created by F5BU to make new meter scales. It can be
downloaded here. <http://tinyurl.com/35qg5l>http://tinyurl.com/35qg5l.

Lou
VK3ALB
At 11:12 AM 23/10/2009, you wrote:
>I tried to find it. But I had a link to software that had reproductions of
>meter faces and or draw your own. Dang if I can not find it.
>
>-----Original Message-----
>From: TS-520_820_530_830@yahoogroups.com
>[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of kingtygr
>Sent: Wednesday, October 21, 2009 8:48 PM
>To: TS-520_820_530_830@yahoogroups.com
>Subject: [TS-520_820_530_830] Re: Meter TS-520
>
>I have to apologize, I cannot get a good picture of the meter. I'm guessing
>you were thinking of simply printing it out and pasting it onto your
>existing meter to repair the fading?
>
>I might be able to recreate the meter face another way, but it'd take some
>time.
>
>Paul
>KE7TYY
>
>
>--- In TS-520_820_530_830@yahoogroups.com, "kingtygr" <jp.paul.allen@...>
>wrote:
> >
> > I can take one for you this afternoon if someone doesn't get to it first,
>mine is the 520SE though so I am not sure if the meters changed between
>models or not.
> >
> > Paul
> > KE7TYY
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "loewensteijn@" <zl2ml@> wrote:
> > >
> > > On both TS-520 meters the red high voltage markings have almost totally
>faded away.
> > >
> > > Is there someone who has one of these meters defunct but has a good
>scale? Is it possible to take a high resolution photograph of the whole
>scale and email it to me? Address in QRZ is correct.

> > >
> > > Many thanks in advance, Marinus, ZL2ML
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23065. RE: [TS-520_820_530_830] Re: Meter TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-23 00:31:11 UTC
From: Don Thomas
Topic: 23032 Message: 23065

Lou,
Tried the link and its not opening the page for some reason. Thought this would be neat to have if I needed to do a meter face myself.

Don T. // K5ZRQ

--- On Thu, 10/22/09, Lou Blasco <radio@...> wrote:

From: Lou Blasco <radio@...>
Subject: RE: [TS-520_820_530_830] Re: Meter TS-520
To: TS-520_820_530_830@yahoogroups.com
Date: Thursday, October 22, 2009, 7:20 PM

You can use Galva created by F5BU to make new meter scales. It can be
downloaded here. <http://tinyurl. com/35qg5l>http://tinyurl. com/35qg5l.

Lou
VK3ALB
At 11:12 AM 23/10/2009, you wrote:
>I tried to find it. But I had a link to software that had reproductions of
>meter faces and or draw your own. Dang if I can not find it.
>
>-----Original Message-----
>From: TS-520_820_530_ 830@yahoogroups. com
>[mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of kingtygr
>Sent: Wednesday, October 21, 2009 8:48 PM
>To: TS-520_820_530_ 830@yahoogroups. com
>Subject: [TS-520_820_ 530_830] Re: Meter TS-520
>
>I have to apologize, I cannot get a good picture of the meter. I'm guessing
>you were thinking of simply printing it out and pasting it onto your
>existing meter to repair the fading?
>
>I might be able to recreate the meter face another way, but it'd take some
>time.
>
>Paul
>KE7TYY
>
>
>--- In TS-520_820_530_ 830@yahoogroups. com, "kingtygr" <jp.paul.allen@ ...>
>wrote:
> >
> > I can take one for you this afternoon if someone doesn't get to it first,
>mine is the 520SE though so I am not sure if the meters changed between
>models or not.

> >
> > Paul
> > KE7TYY
> >
> > --- In TS-520_820_530_ 830@yahoogroups. com, "loewensteijn@ " <zl2ml@> wrote:
> > >
> > > On both TS-520 meters the red high voltage markings have almost totally
>faded away.
> > >
> > > Is there someone who has one of these meters defunct but has a good
>scale? Is it possible to take a high resolution photograph of the whole
>scale and email it to me? Address in QRZ is correct.
> > >
> > > Many thanks in advance, Marinus, ZL2ML
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23066. RE: [TS-520_820_530_830] Re: Meter TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-23 00:36:29 UTC
From: Lou Blasco
Topic: 23032 Message: 23066

Hi Don,

I tried it now and it does work but I see the link looks a little
weird in my original post. Try this link

http://tinyurl.com/35qg5l

Lou
VK3ALB

At 11:31 AM 23/10/2009, you wrote:
>Lou,
>Tried the link and its not opening the page for some
>reason. Thought this would be neat to have if I needed to do a
>meter face myself.
>
>Don T. // K5ZRQ
>
>--- On Thu, 10/22/09, Lou Blasco <radio@...> wrote:
>
>
>From: Lou Blasco <radio@...>
>Subject: RE: [TS-520_820_530_830] Re: Meter TS-520
>To: TS-520_820_530_830@yahoogroups.com
>Date: Thursday, October 22, 2009, 7:20 PM
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>
>You can use Galva created by F5BU to make new meter scales. It can be
>downloaded here. <http://tinyurl. com/35qg5l>http://tinyurl. com/35qg5l.
>
>Lou
>VK3ALB
>At 11:12 AM 23/10/2009, you wrote:
> >I tried to find it. But I had a link to software that had reproductions of
> >meter faces and or draw your own. Dang if I can not find it.
> >
> >-----Original Message-----
> >From: TS-520_820_530_ 830@yahoogroups. com
> >[mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of kingtygr
> >Sent: Wednesday, October 21, 2009 8:48 PM
> >To: TS-520_820_530_ 830@yahoogroups. com
> >Subject: [TS-520_820_ 530_830] Re: Meter TS-520

> >
> >I have to apologize, I cannot get a good picture of the meter. I'm guessing
> >you were thinking of simply printing it out and pasting it onto your
> >existing meter to repair the fading?
> >
> >I might be able to recreate the meter face another way, but it'd take some
> >time.
> >
> >Paul
> >KE7TYY
> >
> >
> >--- In TS-520_820_530_ 830@yahoogroups. com, "kingtygr" <jp.paul.allen@ ...>
> >wrote:
> > >
> > > I can take one for you this afternoon if someone doesn't get to it first,
> >mine is the 520SE though so I am not sure if the meters changed between
> >models or not.
> > >
> > > Paul
> > > KE7TYY
> > >
> > > --- In TS-520_820_530_ 830@yahoogroups. com, "loewensteijn@ "
> <zl2ml@> wrote:
> > > >
> > > > On both TS-520 meters the red high voltage markings have almost totally
> >faded away.
> > > >
> > > > Is there someone who has one of these meters defunct but has a good
> >scale? Is it possible to take a high resolution photograph of the whole
> >scale and email it to me? Address in QRZ is correct.
> > > >
> > > > Many thanks in advance, Marinus, ZL2ML
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23067. RE: [TS-520_820_530_830] Re: Meter TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-23 00:41:28 UTC
From: Don Thomas
Topic: 23032 Message: 23067

Still not work here. Could be the wireless I'm connecting thru. Will try it when I can get to a real connection. Thanks...

Don T.

--- On Thu, 10/22/09, Lou Blasco <radio@...> wrote:

From: Lou Blasco <radio@...>
Subject: RE: [TS-520_820_530_830] Re: Meter TS-520
To: TS-520_820_530_830@yahoogroups.com
Date: Thursday, October 22, 2009, 7:36 PM

Hi Don,

I tried it now and it does work but I see the link looks a little
weird in my original post. Try this link

http://tinyurl. com/35qg5l

Lou
VK3ALB

At 11:31 AM 23/10/2009, you wrote:
>Lou,
>Tried the link and its not opening the page for some
>reason. Thought this would be neat to have if I needed to do a
>meter face myself.
>
>Don T. // K5ZRQ
>
>--- On Thu, 10/22/09, Lou Blasco <radio@ozemail. com.au> wrote:
>
>
>From: Lou Blasco <radio@ozemail. com.au>
>Subject: RE: [TS-520_820_ 530_830] Re: Meter TS-520
>To: TS-520_820_530_ 830@yahoogroups. com
>Date: Thursday, October 22, 2009, 7:20 PM
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>
>You can use Galva created by F5BU to make new meter scales. It can be
>downloaded here. <http://tinyurl. com/35qg5l>http://tinyurl. com/35qg5l.
>
>Lou

>VK3ALB
>At 11:12 AM 23/10/2009, you wrote:
> >I tried to find it. But I had a link to software that had reproductions of
> >meter faces and or draw your own. Dang if I can not find it.
> >
> >-----Original Message-----
> >From: TS-520_820_530_ 830@yahoogroups. com
> >[mailto:TS- 520_820_530_ 830@yahoogroups. com] On Behalf Of kingtygr
> >Sent: Wednesday, October 21, 2009 8:48 PM
> >To: TS-520_820_530_ 830@yahoogroups. com
> >Subject: [TS-520_820_ 530_830] Re: Meter TS-520
> >
> >I have to apologize, I cannot get a good picture of the meter. I'm guessing
> >you were thinking of simply printing it out and pasting it onto your
> >existing meter to repair the fading?
> >
> >I might be able to recreate the meter face another way, but it'd take some
> >time.
> >
> >Paul
> >KE7TYY
> >
> >
> >--- In TS-520_820_530_ 830@yahoogroups. com, "kingtygr" <jp.paul.allen@ ...>
> >wrote:
> > >
> > > I can take one for you this afternoon if someone doesn't get to it first,
> >mine is the 520SE though so I am not sure if the meters changed between
> >models or not.
> > >
> > > Paul
> > > KE7TYY
> > >
> > > --- In TS-520_820_530_ 830@yahoogroups. com, "loewensteijn@ "
> <zl2ml@> wrote:
> > > >
> > > > On both TS-520 meters the red high voltage markings have almost totally
> >faded away.
> > > >
> > > > Is there someone who has one of these meters defunct but has a good
> >scale? Is it possible to take a high resolution photograph of the whole
> >scale and email it to me? Address in QRZ is correct.
> > > >
> > > > Many thanks in advance, Marinus, ZL2ML
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23068. RE: [TS-520_820_530_830] Re: Meter TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-23 00:45:52 UTC
From: Lou Blasco
Topic: 23032 Message: 23068

NP Don,

I tried the link in my subsequent post and it does work. Be aware
that you don't get a webpage just a blank screen. After a few moments
a little download window opens. The other problem you might have is
your IE may be blocking the download window.

Lou
VK3ALB

At 11:41 AM 23/10/2009, you wrote:
>Still not work here. Could be the wireless I'm connecting
>thru. Will try it when I can get to a real connection. Thanks...
>
>Don T.
>
>--- On Thu, 10/22/09, Lou Blasco <radio@...> wrote:
>
>
>From: Lou Blasco <radio@...>
>Subject: RE: [TS-520_820_530_830] Re: Meter TS-520
>To: TS-520_820_530_830@yahoogroups.com
>Date: Thursday, October 22, 2009, 7:36 PM
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>
>Hi Don,
>
>I tried it now and it does work but I see the link looks a little
>weird in my original post. Try this link
>
>http://tinyurl. com/35qg5l
>
>Lou
>VK3ALB
>
>At 11:31 AM 23/10/2009, you wrote:
> >Lou,
> >Tried the link and its not opening the page for some
> >reason. Thought this would be neat to have if I needed to do a
> >meter face myself.
> >
> >Don T. // K5ZRQ

> >
> >--- On Thu, 10/22/09, Lou Blasco <radio@ozemail. com.au> wrote:
> >
> >
> >From: Lou Blasco <radio@ozemail. com.au>
> >Subject: RE: [TS-520_820_ 530_830] Re: Meter TS-520
> >To: TS-520_820_530_ 830@yahoogroups. com
> >Date: Thursday, October 22, 2009, 7:20 PM
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> >
> >You can use Galva created by F5BU to make new meter scales. It can be
> >downloaded here. <http://tinyurl. com/35qg5l>http://tinyurl. com/35qg5l.
> >
> >Lou
> >VK3ALB
> >At 11:12 AM 23/10/2009, you wrote:
> > >I tried to find it. But I had a link to software that had reproductions of
> > >meter faces and or draw your own. Dang if I can not find it.
> > >
> > >-----Original Message-----
> > >From: TS-520_820_530_ 830@yahoogroups. com
> > >[mailto:TS- 520_820_530_ 830@yahoogroups. com] On Behalf Of kingtygr
> > >Sent: Wednesday, October 21, 2009 8:48 PM
> > >To: TS-520_820_530_ 830@yahoogroups. com
> > >Subject: [TS-520_820_ 530_830] Re: Meter TS-520
> > >
> > >I have to apologize, I cannot get a good picture of the meter.
> I'm guessing
> > >you were thinking of simply printing it out and pasting it onto your
> > >existing meter to repair the fading?
> > >
> > >I might be able to recreate the meter face another way, but it'd take some
> > >time.
> > >
> > >Paul
> > >KE7TYY
> > >
> > >
> > >--- In TS-520_820_530_ 830@yahoogroups. com, "kingtygr"
> <jp.paul.allen@ ...>
> > >wrote:
> > > >
> > > > I can take one for you this afternoon if someone doesn't get
> to it first,
> > >mine is the 520SE though so I am not sure if the meters changed between
> > >models or not.

> > > >
> > > > Paul
> > > > KE7TYY
> > > >
> > > > --- In TS-520_820_530_ 830@yahoogroups. com, "loewensteijn@ "
> > <zl2ml@> wrote:
> > > > >
> > > > > On both TS-520 meters the red high voltage markings have
> almost totally
> > >faded away.
> > > > >
> > > > > Is there someone who has one of these meters defunct but has a good
> > >scale? Is it possible to take a high resolution photograph of the whole
> > >scale and email it to me? Address in QRZ is correct.
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> > > > > Many thanks in advance, Marinus, ZL2ML
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23069. Re: Meter TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-23 01:53:29 UTC
From: w5rkl
Topic: 23032 Message: 23069

I tried it as well and it works fine. It's an "FTP" site which downloads the file in zip format.

I use Firefox, not IE.

If you are using IE you might try right clicking the link and select "Save Target As".

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Lou Blasco <radio@...> wrote:
>
> NP Don,
>
> I tried the link in my subsequent post and it does work. Be aware
> that you don't get a webpage just a blank screen. After a few moments
> a little download window opens. The other problem you might have is
> your IE may be blocking the download window.
>
> Lou
> VK3ALB
>
>
> At 11:41 AM 23/10/2009, you wrote:
> >Still not work here. Could be the wireless I'm connecting
> >thru. Will try it when I can get to a real connection. Thanks...
> >
> >Don T.
> >
> >--- On Thu, 10/22/09, Lou Blasco <radio@...> wrote:
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> >
> >From: Lou Blasco <radio@...>
> >Subject: RE: [TS-520_820_530_830] Re: Meter TS-520
> >To: TS-520_820_530_830@yahoogroups.com
> >Date: Thursday, October 22, 2009, 7:36 PM
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> >Hi Don,
> >
> >I tried it now and it does work but I see the link looks a little
> >weird in my original post. Try this link

> >
> >http://tinyurl. com/35qg5l
> >
> >Lou
> >VK3ALB
> >
> >At 11:31 AM 23/10/2009, you wrote:
> > >Lou,
> > >Tried the link and its not opening the page for some
> > >reason. Thought this would be neat to have if I needed to do a
> > >meter face myself.
> > >
> > >Don T. // K5ZRQ
> > >
> > >--- On Thu, 10/22/09, Lou Blasco <radio@ozemail. com.au> wrote:
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> > >
> > >From: Lou Blasco <radio@ozemail. com.au>
> > >Subject: RE: [TS-520_820_ 530_830] Re: Meter TS-520
> > >To: TS-520_820_530_ 830@yahoogroups. com
> > >Date: Thursday, October 22, 2009, 7:20 PM
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> > >
> > >You can use Galva created by F5BU to make new meter scales. It can be
> > >downloaded here. <http://tinyurl. com/35qg5l>http://tinyurl. com/35qg5l.
> > >
> > >Lou
> > >VK3ALB
> > >At 11:12 AM 23/10/2009, you wrote:
> > > >I tried to find it. But I had a link to software that had reproductions of
> > > >meter faces and or draw your own. Dang if I can not find it.
> > > >
> > > >-----Original Message-----
> > > >From: TS-520_820_530_ 830@yahoogroups. com
> > > >[mailto:TS- 520_820_530_ 830@yahoogroups. com] On Behalf Of kingtygr
> > > >Sent: Wednesday, October 21, 2009 8:48 PM
> > > >To: TS-520_820_530_ 830@yahoogroups. com
> > > >Subject: [TS-520_820_ 530_830] Re: Meter TS-520
> > > >
> > > >I have to apologize, I cannot get a good picture of the meter.
> > I'm guessing
> > > >you were thinking of simply printing it out and pasting it onto your
> > > >existing meter to repair the fading?
> > > >
> > > >I might be able to recreate the meter face another way, but it'd take some
> > > >time.

> > > >
> > > >Paul
> > > >KE7TYY
> > > >
> > > >
> > > >--- In TS-520_820_530_ 830@yahoogroups. com, "kingtygr"
> > <jp.paul.allen@ ...>
> > > >wrote:
> > > > >
> > > > > I can take one for you this afternoon if someone doesn't get
> > to it first,
> > > >mine is the 520SE though so I am not sure if the meters changed between
> > > >models or not.
> > > > >
> > > > > Paul
> > > > > KE7TYY
> > > > >
> > > > > --- In TS-520_820_530_ 830@yahoogroups. com, "loewensteijn@ "
> > > <zl2ml@> wrote:
> > > > > >
> > > > > > On both TS-520 meters the red high voltage markings have
> > almost totally
> > > >faded away.
> > > > > >
> > > > > > Is there someone who has one of these meters defunct but has a good
> > > >scale? Is it possible to take a high resolution photograph of the whole
> > > >scale and email it to me? Address in QRZ is correct.
> > > > > >
> > > > > > Many thanks in advance, Marinus, ZL2ML
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23070. Re: [TS-520_820_530_830] Re: Meter TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-23 02:01:10 UTC
From: Don Thomas
Topic: 23032 Message: 23070

I found the site and still not working. Think its the wireless network I'm on at the moment blocking it. Should work when I get on a real network later.

Don T.

--- On Thu, 10/22/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: Meter TS-520
To: TS-520_820_530_830@yahoogroups.com
Date: Thursday, October 22, 2009, 8:53 PM

I tried it as well and it works fine. It's an "FTP" site which downloads the file in zip format.

I use Firefox, not IE.

If you are using IE you might try right clicking the link and select "Save Target As".

73's

Mike W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, Lou Blasco <radio@...> wrote:

>

> NP Don,

>

> I tried the link in my subsequent post and it does work. Be aware

> that you don't get a webpage just a blank screen. After a few moments

> a little download window opens. The other problem you might have is

> your IE may be blocking the download window.

>

> Lou

> VK3ALB

>

>

> At 11:41 AM 23/10/2009, you wrote:

> >Still not work here. Could be the wireless I'm connecting

> >thru. Will try it when I can get to a real connection. Thanks...

> >

> >Don T.

> >

> >--- On Thu, 10/22/09, Lou Blasco <radio@...> wrote:

> >

> >

> >From: Lou Blasco <radio@...>

> >Subject: RE: [TS-520_820_ 530_830] Re: Meter TS-520

> >To: TS-520_820_530_ 830@yahoogroups. com

> >Date: Thursday, October 22, 2009, 7:36 PM

> >

> >

> >

> >

> >

> >

> >Hi Don,

> >

> >I tried it now and it does work but I see the link looks a little

> >weird in my original post. Try this link

> >

> >http://tinyurl. com/35qg5l

> >

> >Lou

> >VK3ALB

> >

> >At 11:31 AM 23/10/2009, you wrote:

> > >Lou,

> > >Tried the link and its not opening the page for some

> > >reason. Thought this would be neat to have if I needed to do a

> > >meter face myself.

> > >

> > >Don T. // K5ZRQ

> > >

> > >--- On Thu, 10/22/09, Lou Blasco <radio@ozemail. com.au> wrote:

> > >

> > >

> > >From: Lou Blasco <radio@ozemail. com.au>

> > >Subject: RE: [TS-520_820_ 530_830] Re: Meter TS-520

> > >To: TS-520_820_530_ 830@yahoogroups. com

> > >Date: Thursday, October 22, 2009, 7:20 PM

> > >

> > >

> > >

> > >

> > >

> > >

> > >You can use Galva created by F5BU to make new meter scales. It can be

> > >downloaded here. <http://tinyurl. com/35qg5l>http://tinyurl. com/35qg5l.

> > >

> > >Lou

> > >VK3ALB

> > >At 11:12 AM 23/10/2009, you wrote:

> > > >I tried to find it. But I had a link to software that had reproductions of

> > > >meter faces and or draw your own. Dang if I can not find it.

> > > >

> > > >-----Original Message-----

> > > >From: TS-520_820_530_ 830@yahoogroups. com

> > > >[mailto:TS- 520_820_530_ 830@yahoogroups. com] On Behalf Of kingtygr

> > > >Sent: Wednesday, October 21, 2009 8:48 PM

> > > >To: TS-520_820_530_ 830@yahoogroups. com

> > > >Subject: [TS-520_820_ 530_830] Re: Meter TS-520

> > > >

> > > >I have to apologize, I cannot get a good picture of the meter.

> > I'm guessing

> > > >you were thinking of simply printing it out and pasting it onto your

> > > >existing meter to repair the fading?

> > > >

> > > >I might be able to recreate the meter face another way, but it'd take some

> > > >time.

> > > >

> > > >Paul

> > > >KE7TYY

> > > >

> > > >

> > > >--- In TS-520_820_530_ 830@yahoogroups. com, "kingtygr"

> > <jp.paul.allen@ ...>

> > > >wrote:

> > > > >

> > > > > I can take one for you this afternoon if someone doesn't get

> > to it first,

> > > >mine is the 520SE though so I am not sure if the meters changed between

> > > >models or not.

> > > > >

> > > > > Paul

> > > > > KE7TYY

> > > > >

> > > > > --- In TS-520_820_530_ 830@yahoogroups. com, "loewensteijn@ "

> > > <zl2ml@> wrote:

> > > > > >

> > > > > > On both TS-520 meters the red high voltage markings have

> > almost totally

> > > >faded away.

> > > > > > >

> > > > > > > Is there someone who has one of these meters defunct but has a good

> > > >scale? Is it possible to take a high resolution photograph of the whole

> > > >scale and email it to me? Address in QRZ is correct.

> > > > > > >

> > > > > > > Many thanks in advance, Marinus, ZL2ML

> > > > > > >

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23071. Re: [TS-520_820_530_830] Scanning Old Kenwood Manuals for Best Quality and yet resonable size

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-23 03:57:02 UTC
From: Chris and Alex
Topic: 23055 Message: 23071

Hi Gordon,
If you scan at 300 dpi that will give you more than enough detail. Then
resize to 72dpi and zoom in to see if you've got the quality that you want.
If you want more detail increase the dpi a little. If you scan in black and
white or convert to black and white this will keep your file size down as
well.

Chris

2009/10/22 <n6wk@...>

>
>
> Thanks Chris,
> but what resolution do you suggest I do the originals at?
> I am thinking maybe 300 or 600 dpi and then resize down to 72, but will
> it still be readable when I zoom in on the Schematics this way?
>
> Gordon
>
> Chris and Alex wrote:
> >
> >
> > Hi Gordon,
> > Resize the images at 72 dpi. This will reduce the size of the files and
> > still leave them readable.
> >
> > Chris
> >
> > 2009/10/22 Gordon JC Pearce <gordon@... <gordon%40gjcp.net><mailto:
> gordon%40gjcp.net <gordon%2540gjcp.net>>>
> >
> > >
> > >
> > > On Thu, 2009-10-22 at 18:04 +0000, n6wk_skcc3 wrote:
> > > > What is the best method to scan Manuals to get them so they can be
> > viewed
> > > > or printed and still have great resolution without making the file size
> > > > outrageous?
> > > > I have adobe Acrobat Pro and a Great HP scanner.
> > > > I want to be able to Zoom in on schematics and still have the print
> be
> > > > readable.
> > > >

> > > > Thanks,
> > > > Gordon
> > > >
> > > Scan the images at high resolution greyscale, and OCR the printed text.
> > > This takes a while, but it's got the advantage that the text is then
> > > searchable.
> > > >
> > > Gordon MM0YEQ
> > > >
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> > [Non-text portions of this message have been removed]
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> > Messages in this topic
> > <
> http://groups.yahoo.com/group/TS-520_820_530_830/message/23055;_ylc=X3oDMTM2bDY1a2hxBF9T
Azk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzIzMDU4BHNlYwNmdHIEc2xrA3
Z0cGMEc3RpbWUDMTI1NjIzODUwOAR0cGNJZAMyMzA1NQ-->
>
> > (3) Reply (via web post)
> > <
> http://groups.yahoo.com/group/TS-520_820_530_830/post;_ylc=X3oDMTJxaXRvZjg2BF9TAzk3MzU5N
zE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzIzMDU4BHNlYwNmdHIEc2xrA3JwbHkEc3R
pbWUDMTI1NjIzODUwOA--?act=reply&messageNum=23058>
>
> > | Start a new topic
> > <
> http://groups.yahoo.com/group/TS-520_820_530_830/post;_ylc=X3oDMTJldDI5bDJpBF9TAzk3MzU5N
zE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA250cGMEc3RpbWUDMTI1NjIzODU
wOA-->
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> > Messages
> > <
> http://groups.yahoo.com/group/TS-520_820_530_830/messages;_ylc=X3oDMTJlOGFrbWJwBF9TAzk3M
zU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA21zZ3MEc3RpbWUDMTI1NjI
zODUwOA-->
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> > | Files
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> http://groups.yahoo.com/group/TS-520_820_530_830/files;_ylc=X3oDMTJmOXQ2MG45BF9TAzk3MzU5
NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA2ZpbGVzBHN0aW1lAzEyNTYyMz
g1MDg->
>
> > | Photos
> > <
> http://groups.yahoo.com/group/TS-520_820_530_830/photos;_ylc=X3oDMTJlcmgzbTM1BF9TAzk3MzU
5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA3Bob3QEc3RpbWUDMTI1NjIzO

DUwOA-->
>
> > | Database
> > <
> http://groups.yahoo.com/group/TS-520_820_530_830/database;_ylc=X3oDMTJjZGU5bjB1BF9TAzk3M
zU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA2RiBHN0aW1lAzEyNTYyMzg
1MDg->
>
> > | Members
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> http://groups.yahoo.com/group/TS-520_820_530_830/members;_ylc=X3oDMTJlOTlpajcwBF9TAzk3Mz
U5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA21icnMEc3RpbWUDMTI1NjIz
ODUwOA-->
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> > Yahoo! Groups
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> http://groups.yahoo.com/;_ylc=X3oDMTJkMzc1Z211BF9TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3
BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA2dmcARzdGltZQMxMjU2MjM4NTA4>
>
> >
> > Change settings via the Web
> > <
> http://groups.yahoo.com/group/TS-520_820_530_830/join;_ylc=X3oDMTJmbXJqa250BF9TAzk3MzU5N
zE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA3N0bmdzBHN0aW1lAzEyNTYyMzg
1MDg->
>
> > (Yahoo! ID required)
> > Change settings via email: Switch delivery to Daily Digest
> > <mailto:TS-520_820_530_830-digest@yahoogroups.com<TS-520_820_530_830-digest%40yahoogro
ups.com>?subject=Email%20Delivery:%20Digest>
>
> > | Switch format to Traditional
> > <mailto:TS-520_820_530_830-traditional@yahoogroups.com<TS-520_820_530_830-traditional%
40yahoogroups.com>?subject=Change%20Delivery%20Format:%20Traditional>
>
> >
> > Visit Your Group
> > <
> http://groups.yahoo.com/group/TS-520_820_530_830;_ylc=X3oDMTJkZm1rZzI2BF9TAzk3MzU5NzE0BG
dycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA2hwZgRzdGltZQMxMjU2MjM4NTA4>
>
> > | Yahoo! Groups Terms of Use <http://docs.yahoo.com/info/terms/> |
> > Unsubscribe
> > <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com<TS-520_820_530_830-unsubscribe%
40yahoogroups.com>
> ?subject=>
> > Recent Activity
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> > *
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> > New Members
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> http://groups.yahoo.com/group/TS-520_820_530_830/members;_ylc=X3oDMTJmbnBoZzQxBF9TAzk3Mz
U5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwN2dGwEc2xrA3ZtYnJzBHN0aW1lAzEyNTYy
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> > Visit Your Group
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> http://groups.yahoo.com/group/TS-520_820_530_830;_ylc=X3oDMTJlNnMzbGdnBF9TAzk3MzU5NzE0BG
dycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwN2dGwEc2xrA3ZnaHAEc3RpbWUDMTI1NjIzODUwOA--
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> > Give Back
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> > Yahoo! for Good
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> http://us.lrd.yahoo.com/_ylc=X3oDMTJtcnFuNDdwBF9TAzk3MzU5NzE0BF9wAzEEZ3JwSWQDNzUyNTAyMQR
ncnBzcElkAzE3MDUwNjMxMDgEc2VjA25jbW9kBHNsawNicmFuZARzdGltZQMxMjU2MjM4NTA4;_ylg=1/SIG=11314
uv3k/**http%3A//brand.yahoo.com/forgood
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> >
> > Get inspired
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> > by a good cause.
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> > Y! Toolbar
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> > Get it Free!
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> http://us.lrd.yahoo.com/_ylc=X3oDMTJvYWZiaHJrBF9TAzk3MzU5NzE0BF9wAzIEZ3JwSWQDNzUyNTAyMQR
ncnBzcElkAzE3MDUwNjMxMDgEc2VjA25jbW9kBHNsawN0b29sYmFyBHN0aW1lAzEyNTYyMzg1MDg-;_ylg=1/SIG=1
1c6dvmk9/**http%3A//toolbar.yahoo.com/%3F.cpdl=ygrps
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> >
> > easy 1-click access
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> > to your groups.
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> > Yahoo! Groups
> >
> > Start a group
> > <
> http://groups.yahoo.com/start;_ylc=X3oDMTJvdmJlZHNhBF9TAzk3MzU5NzE0BF9wAzMEZ3JwSWQDNzUyN
TAyMQRncnBzcElkAzE3MDUwNjMxMDgEc2VjA25jbW9kBHNsawNncm91cHMyBHN0aW1lAzEyNTYyMzg1MDg-
> >
> >
> > in 3 easy steps.
> >

> > Connect with others.
> >
>
>
>

[Non-text portions of this message have been removed]

23072. Re: [TS-520_820_530_830] Scanning Old Kenwood Manuals for Best Quality and yet resonable size

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-23 07:42:12 UTC
From: pmarkavage
Topic: 23055 Message: 23072

The problem boils down to how big do you want the file to get. I seriously doubt most people would care if the voltages appear in red, blue, green, or shades of gray. Gray scale provides shading without the high overhead of bytes. Likewise for any colored lines. If you scan a sheet(s) in true color or 256 color, you not only have to consider the lines you're scanning but also the color and texture of the paper that it's printed on. Very few manual sheets are ever printed on true white paper. Most are white-blue or white-gray, egg shell, or some variation of white. Paper surfaces can be matte, opaque, semigloss, or gloss. Paper age ,and years of environment, then tweak the paper color to be even less white.

Pete, wa2cwa

On Thu, 22 Oct 2009 16:23:32 -0700 n6wk@... writes:
> Thanks Pete,
> I will give that a try.
> What about the Schematics that have Circuits shown in Red or
> Voltages
> shown in red? Shouldn't they be in Color?
>
> Gordon
> N6WK
>
>
>
> pmarkavage wrote:
> >
> >
> > Scan the originals using gray scale with a resolution no more then
> 100 to
> > 150 dpi. Scanning at a higher resolution, 300, 600, or 1200 and
> then
> > resizing back down doesn't really buy you much. Don't scan in true
> color,
> > 256 color, etc. If you scan at too high of a resolution, you
> start
> > scanning the texture of the paper that has the printed text or
> drawings.
> > The majority of all papers are not "true" white and with age, the
> paper
> > also tends to discolor. Also, if the paper is thin, and you scan a
> high
> > resolution, you may also scan the backside of the paper where

> there may
> > be areas with lots of print or photos, and it will either bleed
> through
> > and/or cause shadows to the side you really want to scan.
> >
> > Pete, wa2cwa
> >
> > On Thu, 22 Oct 2009 12:31:54 -0700 n6wk@...
> > <mailto:n6wk%40n6wk.com> writes:
> > > Thanks Chris,
> > > but what resolution do you suggest I do the originals at?
> > > I am thinking maybe 300 or 600 dpi and then resize down to 72,
> but
> > > will
> > > it still be readable when I zoom in on the Schematics this way?
> > >
> > > Gordon
> > >
> > >
> > >
> > >
> > > Chris and Alex wrote:
> > > >
> > > >
> > > > Hi Gordon,
> > > > Resize the images at 72 dpi. This will reduce the size of the
> > > files and
> > > > still leave them readable.
> > > >
> > > > Chris
> > > >
> > > > 2009/10/22 Gordon JC Pearce <gordon@...
> > <mailto:gordon%40gjcp.net>
> > > <mailto:gordon%40gjcp.net>>
> > > >
> > > > >
> > > > >
> > > > > On Thu, 2009-10-22 at 18:04 +0000, n6wk_skcc3 wrote:
> > > > > > What is the best method to scan Manuals to get them so
> they
> > > can be
> > > > > viewed
> > > > > > or printed and still have great resolution without making
> the
> > > file size
> > > > > > outrageous?
> > > > > > I have adobe Acrobat Pro and a Great HP scanner.
> > > > > > I want to be able to Zoom in on schematics and still have
> the
> > > print be

> > > > > readable.
> > > > > >
> > > > > > Thanks,
> > > > > > Gordon
> > > > > >
> > > > > > Scan the images at high resolution greyscale, and OCR the
> > > printed text.
> > > > > > This takes a while, but it's got the advantage that the text
> is
> > > then
> > > > > > searchable.
> > > > > >
> > > > > > Gordon MM0YEQ
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23073. Re: [TS-520_820_530_830] Scanning Old Kenwood Manuals for Best Quality and yet resonable size

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-23 15:02:28 UTC
From: Don Thomas
Topic: 23055 Message: 23073

I've seen schematics where the voltages were in color for TX and RX if they were different. Also have seen where the red didn't show up when scanned as a black and white or grey scale item.

Don T.

[Non-text portions of this message have been removed]

23074. Re: [TS-520_820_530_830] Re: Meter TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-23 15:08:24 UTC
From: martin
Topic: 23032 Message: 23074

Hi Guys. If I had this problem, I would probably scan the meter scale on my old flatbed scanner. Then I would have a file that I could touch up in pretty much any image editing software (even MS paint will work). Then I could print out a replacement. Printing on ordinary printer paper or maybe a transparency sheet should work fine.

Just my thoughts...

larry202br wrote:
> There are automotive gauge repair companies that can restore old
> dash gauges, they may be able to do the same for you. If you take
> the meter out, and remove the front cover, you can use some
> automotive masking tape, like what is used by painters, and mask
> off the red portion of the meter face then repaint with red paint,
> or even some fingernail polish.

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at http://www.defectivebydesign.org/what_is_drm"

23075. Re: [TS-520_820_530_830] Scanning Old Kenwood Manuals for Best Quality and yet resonable size

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-23 15:15:34 UTC
From: martin
Topic: 23055 Message: 23075

Hi Gordon. I would not scan at less than 300DPI. I have had good
luck using 600DPI, and increasing jpeg compression. Your results may
vary depending the quality of the manual, and the particular scanner.
I find that scanning in color usually results in very large files.
I scan in line-art mode. You will have to experiment to see what
works best with your equipment.

Just my thoughts.

n6wk@... wrote:
> Thanks Pete,
> I will give that a try.
> What about the Schematics that have Circuits shown in Red or Voltages
> shown in red? Shouldn't they be in Color?
>
> Gordon
> N6WK
>
>
>
> pmarkavage wrote:
>>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

23076. Re: [TS-520_820_530_830] Scanning Old Kenwood Manuals for Best Quality and yet resonable size

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-23 15:17:35 UTC
From: Jim Stanicek
Topic: 23055 Message: 23076

Does your software have a 16 color mode? This would still preserve the basic colors, but reduce the file size to something managable. Just a thought !

Good luck, Jim

----- Original Message -----
From: Don Thomas
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 23, 2009 11:02 AM
Subject: Re: [TS-520_820_530_830] Scanning Old Kenwood Manuals for Best Quality and yet resonable size

I've seen schematics where the voltages were in color for TX and RX if they were different. Also have seen where the red didn't show up when scanned as a black and white or grey scale item.

Don T.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23077. Re: [TS-520_820_530_830] Scanning Old Kenwood Manuals for Best Quality and yet resonable size

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-23 17:34:22 UTC
From: pmarkavage
Topic: 23055 Message: 23077

Of course, the assumption from the generator of the schematics was that everyone who used the schematic could distinguish specific colors, which is not always true. I've also seen many times when "red" is used on the drawings, it isn't always red. Sometimes it appears as red-orange or even orange. It also appears on some drawings (several electronic manufacturers are known for this) as a lighter shade of red or red-orange. Poor quality scanners, and ones that dub as multi-function machines (scan/fax/copy/print) always seem to have trouble scanning a document when lighter shades, including color, are intermixed with black/white printing. Blue, and variations of blue, color can also be problematic when trying to scan a drawing when the majority of the print is black.

Pete, wa2cwa
http://www.manualman.com

On Fri, 23 Oct 2009 08:02:28 -0700 (PDT) Don Thomas
<satranger1@...> writes:
> I've seen schematics where the voltages were in color for TX and RX
> if they were different. Also have seen where the red didn't show up
> when scanned as a black and white or grey scale item.
>
> Don T.

23078. Re: [TS-520_820_530_830] Scanning Old Kenwood Manuals for Best Quality and yet resonable size

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-23 17:42:32 UTC
From: n6wk@n6wk.com
Topic: 23055 Message: 23078

I am using the HP 4C flatbed scanner.
I wish I had better software for it since the Deskscan software it came
with is years outdated.
It has no trouble seeing any colors that I have ever found.
73,
Gordon

pmarkavage wrote:
>
>
> Of course, the assumption from the generator of the schematics was that
> everyone who used the schematic could distinguish specific colors, which
> is not always true. I've also seen many times when "red" is used on the
> drawings, it isn't always red. Sometimes it appears as red-orange or even
> orange. It also appears on some drawings (several electronic
> manufacturers are known for this) as a lighter shade of red or
> red-orange. Poor quality scanners, and ones that dub as multi-function
> machines (scan/fax/copy/print) always seem to have trouble scanning a
> document when lighter shades, including color, are intermixed with
> black/white printing. Blue, and variations of blue, color can also be
> problematic when trying to scan a drawing when the majority of the print
> is black.
>
> Pete, wa2cwa
> http://www.manualman.com <http://www.manualman.com>
>
> On Fri, 23 Oct 2009 08:02:28 -0700 (PDT) Don Thomas
> <satranger1@... <mailto:satranger1%40yahoo.com>> writes:
> > I've seen schematics where the voltages were in color for TX and RX
> > if they were different. Also have seen where the red didn't show up
> > when scanned as a black and white or grey scale item.
> >
> > Don T.
>
>

23079. Re: Meter TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-23 18:08:41 UTC
From: WimP
Topic: 23032 Message: 23079

Try http://tonnesoftware.com/meter2.html

73, Wim PA0PGA

--- In TS-520_820_530_830@yahoogroups.com, "Kevin King" <kc6ovd@...> wrote:
>
> I tried to find it. But I had a link to software that had reproductions of
> meter faces and or draw your own. Dang if I can not find it.
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of kingtygr
> Sent: Wednesday, October 21, 2009 8:48 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: Meter TS-520
>
> I have to apologize, I cannot get a good picture of the meter. I'm guessing
> you were thinking of simply printing it out and pasting it onto your
> existing meter to repair the fading?
>
> I might be able to recreate the meter face another way, but it'd take some
> time.
>
> Paul
> KE7TYY
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "kingtygr" <jp.paul.allen@>
> wrote:
> >
> > I can take one for you this afternoon if someone doesn't get to it first,
> mine is the 520SE though so I am not sure if the meters changed between
> models or not.
> >
> > Paul
> > KE7TYY
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "loewensteijn@" <zl2ml@> wrote:
> > >
> > > On both TS-520 meters the red high voltage markings have almost totally
> faded away.
> > >
> > > Is there someone who has one of these meters defunct but has a good
> scale? Is it possible to take a high resolution photograph of the whole
> scale and email it to me? Address in QRZ is correct.

> > >
> > > Many thanks in advance, Marinus, ZL2ML
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>
> Yahoo! Groups Links
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23080. Re: [TS-520_820_530_830] Scanning Old Kenwood Manuals for Best Quality and yet resonable size

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-23 18:21:24 UTC
From: pmarkavage
Topic: 23055 Message: 23080

I remember using the 4C back in the days of Windows 3.1 and 95. Haven't
used one in years.

Pete, wa2cwa

On Fri, 23 Oct 2009 10:42:32 -0700 n6wk@... writes:
> I am using the HP 4C flatbed scanner.
> I wish I had better software for it since the Deskscan software it
> came
> with is years outdated.
> It has no trouble seeing any colors that I have ever found.
> 73,
> Gordon
>

23081. Re: Meter TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-24 03:38:57 UTC
From: w0szv
Topic: 23032 Message: 23081

I have a TS520 I am parting out. It has good meter that is not faded out. Would ask a resonable offer plus $5.00 for shipping if that would help any. Let me know. Eldon w0szv

--- In TS-520_820_530_830@yahoogroups.com, "WimP" <wpenders@...> wrote:
>
> Try http://tonnesoftware.com/meter2.html
>
> 73, Wim PA0PGA
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Kevin King" <kc6ovd@> wrote:
> >
> > I tried to find it. But I had a link to software that had reproductions of
> > meter faces and or draw your own. Dang if I can not find it.
> >
> > -----Original Message-----
> > From: TS-520_820_530_830@yahoogroups.com
> > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of kingtygr
> > Sent: Wednesday, October 21, 2009 8:48 PM
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: [TS-520_820_530_830] Re: Meter TS-520
> >
> > I have to apologize, I cannot get a good picture of the meter. I'm guessing
> > you were thinking of simply printing it out and pasting it onto your
> > existing meter to repair the fading?
> >
> > I might be able to recreate the meter face another way, but it'd take some
> > time.
> >
> > Paul
> > KE7TYY
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "kingtygr" <jp.paul.allen@>
> > wrote:
> > >
> > > I can take one for you this afternoon if someone doesn't get to it first,
> > mine is the 520SE though so I am not sure if the meters changed between
> > models or not.
> > >
> > > Paul
> > > KE7TYY
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "loewensteijn@" <zl2ml@> wrote:

> > > >
> > > > On both TS-520 meters the red high voltage markings have almost totally
> > faded away.
> > > >
> > > > Is there someone who has one of these meters defunct but has a good
> > scale? Is it possible to take a high resolution photograph of the whole
> > scale and email it to me? Address in QRZ is correct.
> > > >
> > > > Many thanks in advance, Marinus, ZL2ML
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> >
> > Yahoo! Groups Links
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23082. Re: Meter TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-23 13:32:27 UTC
From: kingtygr
Topic: 23032 Message: 23082

That or it's just a slow network. I downloaded it yesterday just fine, but it takes a while and it acts like it's not doing anyhting for a while till the download really starts.

Paul
KE7TYY

--- In TS-520_820_530_830@yahoogroups.com, Don Thomas <satranger1@...> wrote:
>
> I found the site and still not working. Think its the wireless network I'm on at the moment blocking it. Should work when I get on a real network later.
>
> Don T.
>
> --- On Thu, 10/22/09, w5rkl <w5rkl@...> wrote:
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: Meter TS-520
> To: TS-520_820_530_830@yahoogroups.com
> Date: Thursday, October 22, 2009, 8:53 PM
>
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>
> I tried it as well and it works fine. It's an "FTP" site which downloads the file in zip format.
>
>
>
> I use Firefox, not IE.
>
>
>
> If you are using IE you might try right clicking the link and select "Save Target As".
>
>
>
> 73's

>
> Mike W5RKL
>
>
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Lou Blasco <radio@> wrote:
>
> >
>
> > NP Don,
>
> >
>
> > I tried the link in my subsequent post and it does work. Be aware
>
> > that you don't get a webpage just a blank screen. After a few moments
>
> > a little download window opens. The other problem you might have is
>
> > your IE may be blocking the download window.
>
> >
>
> > Lou
>
> > VK3ALB
>
> >
>
> >
>
> > At 11:41 AM 23/10/2009, you wrote:
>
> > >Still not work here. Could be the wireless I'm connecting
>
> > >thru. Will try it when I can get to a real connection. Thanks...
>
> > >
>
> > >Don T.
>
> > >
>
> > >--- On Thu, 10/22/09, Lou Blasco <radio@> wrote:
>
> > >
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> > >
>
> > >From: Lou Blasco <radio@>

>
> > >Subject: RE: [TS-520_820_ 530_830] Re: Meter TS-520
>
> > >To: TS-520_820_530_ 830@yahoogroups. com
>
> > >Date: Thursday, October 22, 2009, 7:36 PM
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>
> > >Hi Don,
>
> > >
>
> > >I tried it now and it does work but I see the link looks a little
>
> > >weird in my original post. Try this link
>
> > >
>
> > >http://tinyurl. com/35qg5l
>
> > >
>
> > >Lou
>
> > >VK3ALB
>
> > >
>
> > >At 11:31 AM 23/10/2009, you wrote:
>
> > > >Lou,
>
> > > >Tried the link and its not opening the page for some
>
> > > >reason. Thought this would be neat to have if I needed to do a
>
> > > >meter face myself.
>
> > > >

>
> > > >Don T. // K5ZRQ
>
> > > >
>
> > > >--- On Thu, 10/22/09, Lou Blasco <radio@ozemail. com.au> wrote:
>
> > > >
>
> > > >
>
> > > >From: Lou Blasco <radio@ozemail. com.au>
>
> > > >Subject: RE: [TS-520_820_ 530_830] Re: Meter TS-520
>
> > > >To: TS-520_820_530_ 830@yahoogroups. com
>
> > > >Date: Thursday, October 22, 2009, 7:20 PM
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>
> > > >You can use Galva created by F5BU to make new meter scales. It can be
>
> > > >downloaded here. <http://tinyurl. com/35qg5l>http://tinyurl. com/35qg5l.
>
> > > >
>
> > > >Lou
>
> > > >VK3ALB
>
> > > >At 11:12 AM 23/10/2009, you wrote:
>
> > > > >I tried to find it. But I had a link to software that had reproductions of
>
> > > > >meter faces and or draw your own. Dang if I can not find it.
>
> > > > >
>
> > > > >-----Original Message-----

>
> > > > >From: TS-520_820_530_ 830@yahoogroups. com
>
> > > > >[mailto:TS- 520_820_530_ 830@yahoogroups. com] On Behalf Of kingtygr
>
> > > > >Sent: Wednesday, October 21, 2009 8:48 PM
>
> > > > >To: TS-520_820_530_ 830@yahoogroups. com
>
> > > > >Subject: [TS-520_820_ 530_830] Re: Meter TS-520
>
> > > > >
>
> > > > >I have to apologize, I cannot get a good picture of the meter.
>
> > > I'm guessing
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> > > > >you were thinking of simply printing it out and pasting it onto your
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> > > > >existing meter to repair the fading?
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>
> > > > >I might be able to recreate the meter face another way, but it'd take some
>
> > > > >time.
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> > > > >
>
> > > > >Paul
>
> > > > >KE7TYY
>
> > > > >
>
> > > > >
>
> > > > >--- In TS-520_820_530_ 830@yahoogroups. com, "kingtygr"
>
> > > <jp.paul.allen@ ...>
>
> > > > >wrote:
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> > > > > >
>
> > > > > > I can take one for you this afternoon if someone doesn't get
>
> > > to it first,
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> > > > >mine is the 520SE though so I am not sure if the meters changed between

>
> > > > >models or not.
>
> > > > > >
>
> > > > > > Paul
>
> > > > > > KE7TYY
>
> > > > > > >
>
> > > > > > --- In TS-520_820_530_ 830@yahoogroups. com, "loewensteijn@ "
>
> > > > <zl2ml@> wrote:
>
> > > > > > >
>
> > > > > > > On both TS-520 meters the red high voltage markings have
>
> > > almost totally
>
> > > > >faded away.
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>
> > > > > > > Is there someone who has one of these meters defunct but has a good
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> > > > >scale? Is it possible to take a high resolution photograph of the whole
>
> > > > >scale and email it to me? Address in QRZ is correct.
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> > > > > > >
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> > > > > > > Many thanks in advance, Marinus, ZL2ML
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23083. re:tinyurl website address

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-24 04:55:27 UTC
From: Dave ve3wej
Topic: 23083 Message: 23083

I tried it too, but found the following

the link http://tinyurl. com/35qg5l should be without the space between the dot and com
http://tinyurl.com/35qg5l like that.

Dave

23084. Re: [TS-520_820_530_830] re:tinyurl website address

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-24 16:42:46 UTC
From: Don Thomas
Topic: 23083 Message: 23084

After getting home yesterday, downloaded it with no problem. Guess the firewall on the wireless network I was connecting thru was blocking the URL. Thanks

Don T.

--- On Fri, 10/23/09, Dave ve3wej <ve3wej@...> wrote:

From: Dave ve3wej <ve3wej@...>
Subject: [TS-520_820_530_830] re:tinyurl website address
To: TS-520_820_530_830@yahoogroups.com
Date: Friday, October 23, 2009, 11:55 PM

I tried it too, but found the following

the link http://tinyurl. com/35qg5l should be without the space between the dot and com
http://tinyurl. com/35qg5l like that.

Dave

[Non-text portions of this message have been removed]

23085. Kenwoo TS 520 stuff for sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-24 19:35:41 UTC
From: Jim
Topic: 23085 Message: 23085

DG-5 display $75.00
520 ext. VFO $75.00
520 speaker $50.00
MC-50 Desk mic $75.00
AT 250 ant. tuner to trade for one to use on my Icom 706.
Jim

23086. Thanks for letting me join

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-25 20:57:41 UTC
From: Karl
Topic: 23086 Message: 23086

I just got myself a 520s in great cons along with a vintage Swan 100 mxa a kenwood 261a 2 meter and a magnum 257 10 meter and a cobra 142gtl just the begining of my shack hope to pick all of your brains on the 520s thanks again KB1NZQ Karl

23087. TS-820S T/R Relay

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-25 22:29:26 UTC
From: km5rv
Topic: 23087 Message: 23087

I have a problem where I can transmit, but when I let off the key the radio will not go back to the receive mode immediately. I have checked the mike, and it is not there. I am guessing it is in a relay in the radio. (vox is not on) Is this something that can be cleaned easily, and where might I start looking for this relay? Any help would be appreciated. By the way this is an intermittent problem.

23088. TS-830 Stopped Transmitting

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-26 00:02:58 UTC
From: f_canuso
Topic: 23088 Message: 23088

Today, I was on 17 meter fone when all of a sudden, as I was signing with the other station, there was a loud pop from the final cage and an orange flash. The radio stopped transmitting. I turned the radio off and took the covers off and looked inside the final cage to see if there was any visible damage. I could not see any damaged components. I removed the final tubes and lifted the final board to more closely inspect the resistors, etc. and could find no visible damage. I put everything back together and turned on the power and heater switches and let the tubes warm up. I then set the mode switch to usb and the carrier control to 0. When I turned on the send switch with the meter in the IP position to look for bias, the meter immediately pinned all the way to the right. The HV shows about 850 volts. I then turned the rig off.

Does anyone have an idea as to what happened and where I should go from here?

73,
Tony (N2ATB)

23089. Re: TS-830 Stopped Transmitting

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-26 02:59:37 UTC
From: w5rkl
Topic: 23088 Message: 23089

--- In TS-520_820_530_830@yahoogroups.com, "f_canuso" <f_canuso@...> wrote:
>
> Today, I was on 17 meter fone when all of a sudden, as I was
> signing with the other station, there was a loud pop from the final
> cage and an orange flash.

I suspect one or both final tubes are shorted. The flash was more than likely an arc inside one or both final tubes.

I also recommend checking all 4 of the cathode resistors, R2 thru R5, on the bottom of the final unit. If any of them appear to be charred, cracked, or otherwise discolored, replace all 4 of them. Each resistor is 20 ohms at 1/2 watt.

> I then set the mode switch to usb and the carrier control to 0.

The "CAR" control has absolutely no control what so ever over the RF output in sideband mode (USB or LSB). The CAR control is active ONLY in TUNE, CW-W, or CW-N modes.

> When I turned on the send switch with the meter in the IP position
> to look for bias, the meter immediately pinned all the way to the
> right.

IF, as I stated above, one or both of the final tubes are shorted, then that would account for the full scale IP meter reading as you have stated. Check both tubes with a tube tester.

73's
Mike W5RKL

The HV shows about 850 volts. I then turned the rig off.
>
> Does anyone have an idea as to what happened and where I should go from here?
>
> 73,
> Tony (N2ATB)
>

23090. Re: TS-820S T/R Relay

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-26 03:09:33 UTC
From: w5rkl
Topic: 23087 Message: 23090

There are 2 relays in the TS-820. One that controls the 820's receive and transmit functions and the other is the antenna change over and linear amplifier control relay.

To access the relays, remove both top and bottom covers. Turn the 820 upside down, front panel facing you. Looking in the middle of the chassis you will see a relay in a relay socket on a small PC board. This is the relay that controls transmit and receive functions.

Looked at the bottom left rear you will see the final unit PC board. Between the rear of the final unit PC board and the rear panel you will see a small metal enclosure. That is the antenna change over and linear amplifier control relay. You will have to remove the small metal enclosure to gain access to the antenna change over and linear amplifier control relay. The relay in the middle can be removed by pulling gently upwards. Both relays sit in plug in sockets. Both relays are the same. The problem you are talking about appears to be the antenna change over and linear amplifier control relay, it's contacts are covered in carbon. The original relays are no longer available. Check the "Files" section of this forum for replacement sources.

To clean the relays, gently pry the plastic covers off. Using a piece of paper soaked with contact cleaner, slide the paper between the relay contacts until the paper no longer turns black. Use caution when cleaning the relay contacts to prevent bending or damaging the relay contacts in any way. Use canned air to remove excessive contact cleaner.

Carbon build up on relay contacts can affect the circuits the relay controls.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "km5rv" <km5rv@...> wrote:
>
> I have a problem where I can transmit, but when I let off the key the radio will not go back to the receive mode immediately. I have checked the mike, and it is not there. I am guessing it is in a relay in the radio. (vox is not on) Is this something that can be cleaned easily, and where might I start looking for this relay? Any help would be appreciated. By the way this is an intermittent problem.
>

23091. Kenwood TS-520 Switches , LOTS OF FUN !!!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-26 06:55:26 UTC
From: whiteknight926
Topic: 23091 Message: 23091

I just wanted to let anyone know if you plan on pulling the rigs Chassie face off, Your in for a real job !! I pulled it so I could replace all the lamps and also remove the whole VFO for a cleaning and lubing and do some good cleaning in the front of the rig..

The toughest parts to work with are the 5 switches, Sometimes they even fall apart and you have some very small parts to try and put back together. They mount in the face of the radio and are so hard to remov e and put back in, And of coarse the very short mic connector wires on the back of the microphone connector in the face. Its to bad that kenwood could not of left them a little longer.

Not to worry as I am not complaining too much and I still love this rig but it almost been more work then I ever thought it would be to restore.

I hope it works on the air as good as it is starting too look now.

73's All
Dan
WB0YYE

23092. VFO-230 Diagram Question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-26 07:20:12 UTC
From: Charlie , W5COV
Topic: 23092 Message: 23092

Could someone please tell me if there is a large and or high resolution schematic of the VFO-230 , and where to locate it ?

Thank you for this FANTASTIC group !!

Charlie , W5COV

[Non-text portions of this message have been removed]

23093. Re: VFO-230 Diagram Question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-26 15:19:09 UTC
From: w5rkl
Topic: 23092 Message: 23093

Charlie,

The VFO-230 schematic, high resolution by the way, is included in the TS-830S high resolution service manual, page 57. You can download the service manual at the following link.

http://www.n6wk.com/kenwood/TS-830S-Service-High%20Resolution.pdf

Gordon's website is at the following link:

http://www.n6wk.com/kenwood/

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Charlie , W5COV" <cvest@...> wrote:
>
> Could someone please tell me if there is a large and or high resolution schematic of the VFO-230 , and where to locate it ?
>
> Thank you for this FANTASTIC group !!
>
> Charlie , W5COV
>
> [Non-text portions of this message have been removed]
>

23094. CALIBRATING AN EXTERNAL KENWOOD TS-520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-26 20:16:50 UTC
From: OvaEasy
Topic: 23094 Message: 23094

I RECENTLY RECEIVED A VERY NICE KENWOOD TS-520S EXTERNAL FROM A GROUP MEMBER.
THERE IS A MAJOR ERROR IN THE MAIN WHITE DIAL IT IS OFF ABOUT 12kHz USING THE 25kHz 520 MARKER.
REMOVING THE TOP COVER AND TAKING A PEAK DOES NOT SEEM TO EASILY HAVE A MEANS OF LOOSENING A SCREW OR 2 TO FACILITATE MOVING THE DIAL A SMALL AMOUNT SO AS TO CORRESPOND TO THE MARKER.
ANY IDEAS OR SUGGESTIONS GREATLY APPRECIATED OR I WILL HAVE TO SEND THE VFO BACK. ALTHOUGH I WOULD RATHER KEEP IT AS AN IMPORTANT ADDITION TO MY VINTAGE STATION.
THANK YOU IN ADVANCE FOR YOUR CONSIDERATION AND REPLY
BARRY. WB6LDL

SORRY FOR THE CAPS LOCK BUT JUST GOT HOME FROM THE EYE DOC AND I AM DILATED.

23095. CALIBRATING AN EXTERNAL KENWOOD TS-520S VFO

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-26 20:18:54 UTC
From: OvaEasy
Topic: 23095 Message: 23095

I RECENTLY RECEIVED A VERY NICE *KENWOOD TS-520S EXTERNAL VFO *FROM A GROUP MEMBER.
THERE IS A MAJOR ERROR IN THE MAIN WHITE DIAL IT IS OFF ABOUT 12kHz USING THE 25kHz 520 MARKER.
REMOVING THE TOP COVER AND TAKING A PEAK DOES NOT SEEM TO EASILY HAVE A MEANS OF LOOSENING A SCREW OR 2 TO FACILITATE MOVING THE DIAL A SMALL AMOUNT SO AS TO CORRESPOND TO THE MARKER.
ANY IDEAS OR SUGGESTIONS GREATLY APPRECIATED OR I WILL HAVE TO SEND THE VFO BACK. ALTHOUGH I WOULD RATHER KEEP IT AS AN IMPORTANT ADDITION TO MY VINTAGE STATION.
THANK YOU IN ADVANCE FOR YOUR CONSIDERATION AND REPLY
BARRY. WB6LDL

SORRY FOR THE CAPS LOCK BUT JUST GOT HOME FROM THE EYE DOC AND I AM DILATED.

[Non-text portions of this message have been removed]

23096. Re: [TS-520_820_530_830] CALIBRATING AN EXTERNAL KENWOOD TS-520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-26 20:39:35 UTC
From: Lou Blasco
Topic: 23094 Message: 23096

Hi Barry,

You can remove the VFO dial and get access to the screw that holds
the white disk in place.

Lou
VK3ALB

At 07:16 AM 27/10/2009, you wrote:
>I RECENTLY RECEIVED A VERY NICE KENWOOD TS-520S EXTERNAL FROM A GROUP
>MEMBER.
>THERE IS A MAJOR ERROR IN THE MAIN WHITE DIAL IT IS OFF ABOUT 12kHz
>USING THE 25kHz 520 MARKER.
>REMOVING THE TOP COVER AND TAKING A PEAK DOES NOT SEEM TO EASILY HAVE A
>MEANS OF LOOSENING A SCREW OR 2 TO FACILITATE MOVING THE DIAL A SMALL
>AMOUNT SO AS TO CORRESPOND TO THE MARKER.
>ANY IDEAS OR SUGGESTIONS GREATLY APPRECIATED OR I WILL HAVE TO SEND THE
>VFO BACK. ALTHOUGH I WOULD RATHER KEEP IT AS AN IMPORTANT ADDITION TO MY
>VINTAGE STATION.
>THANK YOU IN ADVANCE FOR YOUR CONSIDERATION AND REPLY
>BARRY. WB6LDL
>
>SORRY FOR THE CAPS LOCK BUT JUST GOT HOME FROM THE EYE DOC AND I AM DILATED.
>
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>
>------------------------------------
>
>Yahoo! Groups Links
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>

23097. Re: Kenwood TS-520 Switches , LOTS OF FUN !!!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-26 20:47:17 UTC
From: james27613
Topic: 23091 Message: 23097

Hi Dan,

now we know what to expect !

73 james ke4dɪn

23098. Re: [TS-520_820_530_830] CALIBRATING AN EXTERNAL KENWOOD TS-520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-26 21:05:06 UTC
From: OvaEasy
Topic: 23094 Message: 23098

THANKS LOU FOR YOUR REPLY.
TOMORROW WHEN MY EYES ARE WORKING AGAIN I WILL TAKE A LOOK-SEE.
I ASSUME YOU MAY BE REFERRING TO THE MAIN VFO DIAL KNOB.. AM I RIGHT?
AND ARE THERE MORE THEN ONE SCREW HOLDING THE WHITE DISK????
B.

Lou Blasco wrote:
>
>
> Hi Barry,
>
> You can remove the VFO dial and get access to the screw that holds
> the white disk in place.
>
> Lou
> VK3ALB
>
> At 07:16 AM 27/10/2009, you wrote:
> >I RECENTLY RECEIVED A VERY NICE KENWOOD TS-520S EXTERNAL FROM A GROUP
> >MEMBER.
> >THERE IS A MAJOR ERROR IN THE MAIN WHITE DIAL IT IS OFF ABOUT 12kHz
> >USING THE 25kHz 520 MARKER.
> >REMOVING THE TOP COVER AND TAKING A PEAK DOES NOT SEEM TO EASILY HAVE A
> >MEANS OF LOOSENING A SCREW OR 2 TO FACILITATE MOVING THE DIAL A SMALL
> >AMOUNT SO AS TO CORRESPOND TO THE MARKER.
> >ANY IDEAS OR SUGGESTIONS GREATLY APPRECIATED OR I WILL HAVE TO SEND THE
> >VFO BACK. ALTHOUGH I WOULD RATHER KEEP IT AS AN IMPORTANT ADDITION TO MY
> >VINTAGE STATION.
> >THANK YOU IN ADVANCE FOR YOUR CONSIDERATION AND REPLY
> >BARRY. WB6LDL
> >
> >SORRY FOR THE CAPS LOCK BUT JUST GOT HOME FROM THE EYE DOC AND I AM
> DILATED.
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> >Yahoo! Groups Links
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[Non-text portions of this message have been removed]

23099. Re: [TS-520_820_530_830] Kenwood TS-520 Switches , LOTS OF FUN !!!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-26 21:15:16 UTC
From: martin
Topic: 23091 Message: 23099

Hi Dan. I am not sure about the TS-520, bu on my TS-530S I do not have to remove the front face of the radio to replace the lamps and lube the VFO gears. The VFO comes out as a unit once disconnected, by removing the 4 Allen screws at its 4 corners. The meter lamo is easy to replace by simply removing the top cover.

I had a TS-520 years ago, but neber had to remove the VFO. I did replace the meter lamp, and it is similar in that respect to the TS-530S.

TTYL

whiteknight926 wrote:
> I just wanted to let anyone know if you plan on pulling the rigs
> Chassie face off, Your in for a real job !! I pulled it so I could
> replace all the lamps and also remove the whole VFO for a cleaning
> and lubing and do some good cleaning in the front of the rig..
>
> The toughest parts to work with are the 5 switches, Sometimes they
> even fall apart and you have some very small parts to try and put
> back together. They mount in the face of the radio and are so hard
> to remov e and put back in, And of coarse the very short mic
> connector wires on the back of the microphone connector in the
> face. Its to bad that kenwood could not of left them a little
> longer.
>
> Not to worry as I am not complaining too much and I still love this
> rig but it almost been more work then I ever thought it would be to
> restore.
>
> I hope it works on the air as good as it is starting too look now.
>
> 73's All Dan WB0YYE
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at http://www.defectivebydesign.org/what_is_drm"

23100. TS-820S display intermittently goes to "9.001"

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-27 02:39:01 UTC
From: n6ayj
Topic: 23100 Message: 23100

I'll bet this has been discussed before, but can anybody direct me to the correct thread, or suggest likely search criteria?

Thanks.

Bill, W6WBJ

23101. My Hybrid radio experiences.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-26 08:31:48 UTC
From: allan_gm1sxx
Topic: 23101 Message: 23101

Hi Group.

My name is Allan and this is my first posting to the group.
I recently bought a rather nice TS-820S at a rally for not a lot of money. It passed the all-important 'sniff test', so I parted with my cash. I love these old hybrid radios and the most common reason I've found for low output power is a weak driver (12BY7A) bottle. So long as the radio hasn't been abused, and you can usually tell from the 'sniff test' and the state of the cabinet screws, the PA's are generally fine.
This one was giving rather less power than I had hoped for but replacing the driver with a known good one instantly restored the PA to full output. Driver failure is fairly common in these radios, I suspect caused mainly by the valves being over-voltaged deliberately.

Typically both Yaesu and Trio/Kenwood place over 300V on the anodes of a valve designed for 200-250. It shouldn't come as a surprise that thay fail quite frequently. The PA's in this radio were the Matsushita S2001A orginals and still work perfectly. I like this 820S. It's a classy radio. I bought it as an Autumn project, so I'm just a bit disappointed that it works so well :-)

The 12BY7A was designed for TV service, as a video amplifier. Here's something strange I've noticed about them. Every one I've tried, and thats been a few dozen good NOS and ex-equipment tested ones, has exhibited a faint internal glow on TX. Not like the harsh glow of a 'soft' valve, which is often external to the anode structure, but in the inter-electrode gap between cathode and anode. Am internal blue glow is often present in 'soft' valves, but all of these tested good on a valve tester and work perfectly in a radio. The glow is very pale blue in colour and only visible in a darkened room, not like the deep blue of violet glow you get with a soft tube.

I suspect this is the result of feeding them excessive anode voltage.
nearer 350 rather than the specified 250 (maximum).... probably does them no good at all.

http://www.r-type.org/exhib/aaa0086.htm

I've had quite a few hybrid radios through my hands for repair and only one had bad PA bottles (killed by gross abuse.. melted envelopes). All of the others had good PA's but most had sick 12BY7A drivers. So next time your power output is low, swap out the driver and see how it goes.
It's a cheaper option than replacing the PA's only to find they are not faulty after all.

My other hybrids are FT102 FT200 and FL101/FR101, so this is my first Kenwood radio, and I rather like it.

Vy 73 Al.
GM1SXX
www.observations.biz

23102. Re: [TS-520_820_530_830] My Hybrid radio experiences.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-27 04:35:28 UTC
From: martin
Topic: 23101 Message: 23102

Hi Al. Having at one time owned a Kenwood TS-520, and a Yaesu FT-101EE, and run them side by side with the same antenna, I have to say that the TS-520 was definitely superior. It had a better receiver, and got better TX audio reports. I have also owned a Yaesu FT-902DM, but I didn't have any Kenwood radios to compare it to at the time. The FT902DM was a nice radio, but I like the Kenwood TS-530S, TS-430S and TS-130SE that I have now. I have never been much of a Yaesu fan, and I doubt that I ever will be.

TTYL

allan_gm1sxx wrote:

>
> I've had quite a few hybrid radios through my hands for repair and only one had bad PA bottles (killed by gross abuse.. melted envelopes). All of the others had good PA's but most had sick 12BY7A drivers. So next time your power output is low, swap out the driver and see how it goes.
> It's a cheaper option than replacing the PA's only to find they are not faulty after all.
>
> My other hybrids are FT102 FT200 and FL101/FR101, so this is my first Kenwood radio, and I rather like it.
>
> Vy 73 Al.
> GM1SXX
> www.observations.biz
>
>
>
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>
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at http://www.defectivebydesign.org/what_is_drm"

23103. Replace the meter Lamp (TS830S)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-27 07:03:22 UTC
From: Irena & Richard Jenkins
Topic: 23103 Message: 23103

I's come around ... I'm sick on no meter lamp. Does anyone have a howto to do this job without skinned knuckles??

73

Richard
--
Irena & Richard Jenkins
Canberra AU

Linux on a Mac ... delightful!
++

23104. Re: [TS-520_820_530_830] Replace the meter Lamp (TS830S)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-27 07:27:48 UTC
From: Chris and Alex
Topic: 23103 Message: 23104

Hi Richard,

No skinned knuckles!

I've just changed the meter lamp on my ts-830 and it couldn't be easier to get to. Take off the top cover and unplug the speaker lead so you can set it aside. The meter lamp sits in a clear rubber grommet at the top of the meter. The lampholder was broken beyond repair on mine so I got a 12 volt minature wire terminated lamp and soldered it in. It fits perfectly in the grommet. I don't have a make or part number. The guy in the shop gave me two loose out of a drawer and didn't even charge for them.

Chris

2009/10/27 Irena & Richard Jenkins <richard.jenkins@...>

>
>
> I's come around ... I'm sick on no meter lamp. Does anyone have a howto to
> do
> this job without skinned knuckles??
>
> 73
>
> Richard
> --
> Irena & Richard Jenkins
> Canberra AU
>
> Linux on a Mac ... delightful!
> ++
>
>
>
>

[Non-text portions of this message have been removed]

23105. Re: TS-820S display intermittently goes to "9.001"

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-27 14:06:07 UTC
From: w5rkl
Topic: 23100 Message: 23105

Hello Bill,

When the digital display shows "9.001", I'm going to assume the 820 continues to operate properly, both in transmit and receive.

If this is the case with your 820, more than likely the problem is the digital display unit's internal fixed connecting pin and the sockets on each board they are inserted into have become dirty/corroded over time.

The digital display has 2 PC boards inside the metal enclosure, "COUNTER" (X54-1160-00) and "COUNTER MIX" (X54-1150-00). These boards interconnect to each other through a set of "fixed pins" inside the digital display metal enclosure. These pins become dirt/corroded over time resulting in strange behavior of the digital display. In most cases, cleaning the outer pins/plugs, one on top and one on the bottom, will not fix this problem. To fix the problem, providing there are no other problems with the digital display unit or other circuits, I recommend performing the following:

The digital display unit is located to the left of the VFO, between the VFO and the IF UNIT board (820 right side up and front panel facing you). The IF UNIT board is the vertical board with the components facing the left side of the 820.

Turn power off to the 820, remove all cables including the power cable, then remove the top and bottom covers.

The digital display has 2 multi-wire plugs, one on the bottom and one on the top. Remove both plugs.

Loosen the digital display mounting screws and gently remove the digital display unit.

Remove the metal cover, exposing both PC boards.

You will note that each PC board has mounting screws.

Remove one board at a time by removing the PC board mounting screws.

Use contact cleaner and an old tooth brush to clean the fixed pins. Give the PC board pin sockets a shot of contact cleaner then insert and remove the PC board a few times. This allows "scrubbing" action to take place between the pins and the sockets, cleaning the sockets of dirt/corrosion.

Use the tooth brush and give a light scrubbing on the edges where the mounting screws are inserted. This area is the ground for the PC board.

Insert the PC board for the final time and secure the board with the mounting screws. Do NOT use excessive force when tightening the screw as it is quite possible you could strip the threads of the screw(s).

Repeat the same cleaning procedure to the other PC board.

Once completed and both boards are secured to the metal enclosure, use canned air, available from Walmart, to remove any excess contact cleaner then reinstall the outer cover.

Install the digital display unit back into the 820 and secure it with the mounting screws.

Give the top and bottom contacts a shot of contact cleaning then reconnect the 2 plugs, one on the bottom and one on the top, a couple of time. Remove the plugs and use canned air to remove excess contact cleaner then reinsert both plugs onto the digital display unit for the final time.

Check for pinched wires, shorts and/or broken or pulled plugs that may have been caused by handling the 820 with the covers off. Ensure the SEND switch is in the down position (REC). If everything looks good then reconnect the power cable and turn the 820 on. The digital display should display the proper operating frequency and display a smooth change in frequency as you rotate the VFO knob. If everything is working properly, remove power and reinstall the top and bottom covers, reconnect all cables, and enjoy your 820.

Always observe proper safety precautions at ALL TIMES when troubleshooting and repairing any piece of electronic equipment.

Never work on electronic equipment when you are tired, sleepy, or don't feel good.

When working with contact cleaner, always read and adhere to the warnings/cautions on the side of the container. Contact cleaner is flammable and it only takes a small spark to ignite it.

Never use excessive amounts of contact cleaner (soaking switch wafers, control pots, etc), a small amount goes a long way.

Use canned air to remove any and all excess contact cleaner.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "n6ayj" <retroguybilly@...> wrote:
>
> I'll bet this has been discussed before, but can anybody direct me to the correct thread, or suggest likely search criteria?
>
> Thanks.
>
> Bill, W6WBJ
>

23106. Re: [TS-520_820_530_830] My Hybrid radio experiences.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-27 14:20:28 UTC
From: Jim Stanicek
Topic: 23101 Message: 23106

I have seen tubes such as this with a faint blue glow clinging to the glass envelope. Is this what you are referring to ? I have had tubes do this, and work well for years! I wouldn't be concerned about it as long as the tube continues to work for you!

I can remember my Grandmother's old console radio (Stromberg-Carlson) that had a 5U4 rectifier (I believe it was) that glowed an orange color for the first few moments that the set was turned on. Then when the filaments heated up and the tube started conducting, everything cleared up, and returned to normal. That set was old when I was first aware of it, and continued to operate for many years after.

"Hollow State", ya gotta LOVE it !

73, Jim

----- Original Message -----
From: allan_gm1sxx
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, October 26, 2009 4:31 AM
Subject: [TS-520_820_530_830] My Hybrid radio experiences.

Hi Group.

My name is Allan and this is my first posting to the group.
I recently bought a rather nice TS-820S at a rally for not a lot of money. It passed the all-important 'sniff test', so I parted with my cash. I love these old hybrid radios and the most common reason I've found for low output power is a weak driver (12BY7A) bottle. So long as the radio hasn't been abused, and you can usually tell from the 'sniff test' and the state of the cabinet screws, the PA's are generally fine.
This one was giving rather less power than I had hoped for but replacing the driver with a known good one instantly restored the PA to full output. Driver failure is fairly common in these radios, I suspect caused mainly by the valves being over-voltaged deliberately.

Typically both Yaesu and Trio/Kenwood place over 300V on the anodes of a valve designed for 200-250. It shouldn't come as a surprise that thay fail quite frequently. The PA's in this radio were the Matsushita S2001A orginals and still work perfectly. I like this 820S. It's a classy radio. I bought it as an Autumn project, so I'm just a bit disappointed that it works so well :-)

The 12BY7A was designed for TV service, as a video amplifier. Here's something strange I've noticed about them. Every one I've tried, and thats been a few dozen good NOS and ex-equipment tested ones, has exhibited a faint internal glow on TX. Not like the harsh glow of a 'soft' valve, which is often external to the anode structure, but in the inter-electrode gap between cathode and anode. Am internal blue glow is often present in 'soft' valves, but all of these tested good on a valve tester and work perfectly in a radio. The glow is very pale blue in colour and only visible in a darkened room, not like the deep blue of violet glow you get with a soft tube.

I suspect this is the result of feeding them excessive anode voltage.
nearer 350 rather than the specified 250 (maximum).... probably does them no good at all.

http://www.r-type.org/exhib/aaa0086.htm

I've had quite a few hybrid radios through my hands for repair and only one had bad PA bottles (killed by gross abuse.. melted envelopes). All of the others had good PA's but most had sick 12BY7A drivers. So next time your power output is low, swap out the driver and see how it goes.
It's a cheaper option than replacing the PA's only to find they are not faulty after all.

My other hybrids are FT102 FT200 and FL101/FR101, so this is my first Kenwood radio, and I rather like it.

Vy 73 Al.
GM1SXX
www.observations.biz

[Non-text portions of this message have been removed]

23107. MC-50 For Sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-27 15:19:22 UTC
From: jsloss
Topic: 23107 Message: 23107

Nice MC-50 microphone. Missing the small ON-OFF label on the mike barrel. Can send photos. $50 + a pittance for shpg. Thanks Joe k7mks

[Non-text portions of this message have been removed]

23108. Re: [TS-520_820_530_830] Replace the meter Lamp (TS830S)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-27 16:39:03 UTC
From: n6wk@n6wk.com
Topic: 23103 Message: 23108

Meter lamp is VERY easy.
Remove top cover and the Lamp is right on top of the meter.
Very simple.
73,
Gordon
N6WK

Irena & Richard Jenkins wrote:
>
>
> I's come around ... I'm sick on no meter lamp. Does anyone have a
> howto to do
> this job without skinned knuckles??
>
> 73
>
> Richard
> --
> Irena & Richard Jenkins
> Canberra AU
>
> Linux on a Mac ... delightful!
> ++
>
>

23109. Eimac vacuum tube information.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-27 18:16:33 UTC
From: w5rkl
Topic: 23109 Message: 23109

Here's an interesting link for those who are interested in reading about the "Care and Feeding of Power Grid Tubes".

http://www.coutant.org/eimac/index.html

73's
Mike W5RKL

23110. TS830S won't tune -- so need help ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-27 17:50:04 UTC
From: jwarnerr
Topic: 23110 Message: 23110

Last ran the TS830 in '99 and it ran fine (dxing).
Just pulled the rig out of the closet and cant get any
tuning function to work (no meter response on DRV, PLATE,
and LOAD). This is a surprise! I do have 60ma bias and it
adjusted properly.

I have tried replacing the drive tube several times and still
no response. All front and back switches are correctly set
(I think) as per the Manual.

I have no way to test the drives tubes - but have a whole box
of them and some marked NEW. Its hard to believe all of these
tubes are bad - I would still get some meter reading. I get
no Drive deflection at all.

I get no meter response whatever for any tuning function
beyond the 60ma bias test.

Any ideas?

TNX & 73.
KG0EI

23111. RE: [TS-520_820_530_830] TS830S won't tune -- so need help ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-27 18:46:15 UTC
From: Dick Merryman
Topic: 23110 Message: 23111

Electrolytic capacitors generally fail after a long period of storage. I'm guessing that you don't have high voltage. What does the meter say?

-Dick-

_____

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of jwarnerr
Sent: Tuesday, October 27, 2009 10:50 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS830S won't tune -- so need help ?

Last ran the TS830 in '99 and it ran fine (dxing).
Just pulled the rig out of the closet and cant get any
tuning function to work (no meter response on DRV, PLATE,
and LOAD). This is a surprise! I do have 60ma bias and it
adjusted properly.

I have tried replacing the drive tube several times and still
no response. All front and back switches are correctly set
(I think) as per the Manual.

I have no way to test the drives tubes - but have a whole box
of them and some marked NEW. Its hard to believe all of these
tubes are bad - I would still get some meter reading. I get
no Drive deflection at all.

I get no meter response whatever for any tuning function
beyond the 60ma bias test.

Any ideas?

TNX & 73.
KG0EI

[Non-text portions of this message have been removed]

23112. Re: TS830S won't tune -- so need help ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-27 20:56:03 UTC
From: w5rkl
Topic: 23110 Message: 23112

Based on the information provided, it appears the HV, LV, filament, and bias supplies are working.

The post stated the IP meter indicates 60ma of final tube idling current. That tells me the HV supply is working.

I suspect dirty wafer switches on the FUNCTION, MODE, and BAND switch. Clean each switch wafer, one at a time. This includes the final cage switch wafer, don't forget that one.

Clean the MIC and CAR control pots.

Pull each PC board plug, give the pins and plugs a shot of cleaner, then insert and remove each plug a couple of times. Do this will each plug.

Check each PC board mounting screw. Loosen the screws one full turn then tighten. Do this to the chassis grounds as well.

Use canned air to remove any/all excess contact cleaner.

Once all these steps have been done, tune the 830 up into a dummy load.

I seriously doubt the HV filter capacitors are the source of this problem. The HV supply is working otherwise there would be no "no-signal" 60ma idling current indication on the IP meter in transmit. The "IP" meter indication is the final tube's "Plate current". It takes a voltage applied to the final tube's plate in order for electrons to flow through the tubes to create a current, hence 60ma IP idling current on the meter in transmit.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Dick Merryman" <dicko@...> wrote:
>
> Electrolytic capacitors generally fail after a long period of storage. I'm
> guessing that you don't have high voltage. What does the meter say?
>
> -Dick-
>
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of jwarnerr
> Sent: Tuesday, October 27, 2009 10:50 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] TS830S won't tune -- so need help ?
>
>

>
>
> Last ran the TS830 in '99 and it ran fine (dxing).
> Just pulled the rig out of the closet and cant get any
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> I have tried replacing the drive tube several times and still
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> I get no meter response whatever for any tuning function
> beyond the 60ma bias test.
>
> Any ideas?
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> TNX & 73.
> KG0EI
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> [Non-text portions of this message have been removed]
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23113. Re: TS830S won't tune -- so need help ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-27 20:09:13 UTC
From: jwarnerr
Topic: 23110 Message: 23113

Maybe I mispoke and didnt understand your question.

There is a HV position on the meter switch I did not try. I
dont know how to use this feature. But, with the Mode on Tune
and the Meter on HV, if I flip to Send I do get full swing on
the meter to the 300ma mark.

What does this mean?

Jerry

--- In TS-520_820_530_830@yahoogroups.com, "Dick Merryman" <dicko@...> wrote:
>
> Electrolytic capacitors generally fail after a long period of storage. I'm
> guessing that you don't have high voltage. What does the meter say?
>
> -Dick-
>
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of jwarnerr
> Sent: Tuesday, October 27, 2009 10:50 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] TS830S won't tune -- so need help ?
>
>
>
>
> Last ran the TS830 in '99 and it ran fine (dxing).
> Just pulled the rig out of the closet and cant get any
> tuning function to work (no meter response on DRV, PLATE,
> and LOAD). This is a surprise! I do have 60ma bias and it
> adjusted properly.
>
> I have tried replacing the drive tube several times and still
> no response. All front and back switches are correctly set
> (I think) as per the Manual.
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> I have no way to test the drives tubes - but have a whole box
> of them and some marked NEW. Its hard to believe all of these
> tubes are bad - I would still get some meter reading. I get
> no Drive deflection at all.
>
> I get no meter response whatever for any tuning function

> beyond the 60ma bias test.
>
> Any ideas?
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> TNX & 73.
> KG0EI
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> [Non-text portions of this message have been removed]
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23114. Re: TS830S won't tune -- so need help ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-27 19:50:54 UTC
From: jwarnerr
Topic: 23110 Message: 23114

Hi Dick. As stated before, I get NO meter deflection at all
in any tune function. None. No meter deflection period.
Dead as a doornail.

The only problem in the history of this radio was a lose
(cold soldered) wire to the center of the female PL259?
RF antenna socket on the back of the radio. My audio and RF
had always been poor, then I noticed the socket moving if I
jiggled the antenna connector on the back of the radio. When
I took the sides off and inspected the socket from the inside
the center wire was lose, so I resoldered it.. everyhing
worked normally after that.

Maybe I will have to send this radio off to someone because
there isnt anyone around here (that I know of) who works on
radios.

Jerry

--- In TS-520_820_530_830@yahoogroups.com, "Dick Merryman" <dicko@...> wrote:
>
> Electrolytic capacitors generally fail after a long period of storage. I'm
> guessing that you don't have high voltage. What does the meter say?
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> -Dick-
>
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of jwarnerr
> Sent: Tuesday, October 27, 2009 10:50 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] TS830S won't tune -- so need help ?
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> I have tried replacing the drive tube several times and still
> no response. All front and back switches are correctly set

> (I think) as per the Manual.
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> I have no way to test the drives tubes - but have a whole box
> of them and some marked NEW. Its hard to believe all of these
> tubes are bad - I would still get some meter reading. I get
> no Drive deflection at all.
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> I get no meter response whatever for any tuning function
> beyond the 60ma bias test.
>
> Any ideas?
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> TNX & 73.
> KG0EI
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> [Non-text portions of this message have been removed]
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23115. Re: [TS-520_820_530_830] Re: TS830S won't tune -- so need help ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-27 21:38:47 UTC
From: Charlie , W5COV
Topic: 23110 Message: 23115

Jerry , I don't know where you are located , but usually that doesn't matter too much .

I wouldn't give up just yet . The guys on this group know these radios so intimately , both inside and out , that they can usually "talk" you through the problem , right down to the exact component(s).

Their knowledge absolutely amazes me .

Charlie , W5COV

[Non-text portions of this message have been removed]

23116. Re: TS830S won't tune -- so need help ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-27 22:00:22 UTC
From: jwarnerr
Topic: 23110 Message: 23116

Thanks Charlie - I wont give up just yet. Its a vy fn radio
worth salvaging if I can, just bothers me I didnt keep it
active. Whats worse I had a brand new seldom used 830S I sold
last year that did work, and now here I sit partly because of
confidence in the 830. I will stand by for any further comments
tonight but I may be sending it to Burqhart or Kenwood, if
they still work on radios? Thanks!
Jerry kg0ei

--- In TS-520_820_530_830@yahoogroups.com, "Charlie , W5COV" <cvest@...> wrote:
>
> Jerry , I don't know where you are located , but usually that doesn't matter too much .
>
> I wouldn't give up just yet . The guys on this group know these radios so intimately , both inside and out , that they can usually "talk" you through the problem , right down to the exact component(s).
>
> Their knowledge absolutely amazes me .
>
> Charlie , W5COV
>
> [Non-text portions of this message have been removed]
>

23117. RE: [TS-520_820_530_830] Re: TS830S won't tune -- so need help ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-27 22:47:45 UTC
From: Greg Anders
Topic: 23110 Message: 23117

The HV position is to measure the high voltage on the finals. There should be a meter scale marked 0-1000 volts or so, marked "HV". When you go to transmit in SSB mode it should read around 850V, in CW under load it would dip to around 750V but since you see no plate current I wouldn't expect any loading on the HV supply to make it sag.

So, the question is, do you have High Voltage as read on the front panel meter in transmit with the meter switch in the HV position?

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of jwarnerr
Sent: Tuesday, October 27, 2009 1:09 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS830S won't tune -- so need help ?

Maybe I mispoke and didnt understand your question.

There is a HV position on the meter switch I did not try. I
dont know how to use this feature. But, with the Mode on Tune
and the Meter on HV, if I flip to Send I do get full swing on
the meter to the 300ma mark.

What does this mean?

Jerry

--- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "Dick Merryman" <dicko@...> wrote:
>
> Electrolytic capacitors generally fail after a long period of storage. I'm
> guessing that you don't have high voltage. What does the meter say?
>
> -Dick-
>
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> [mailto:TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of jwarnerr
> Sent: Tuesday, October 27, 2009 10:50 AM
> To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> Subject: [TS-520_820_530_830] TS830S won't tune -- so need help ?
>
>

>
>
> Last ran the TS830 in '99 and it ran fine (dxing).
> Just pulled the rig out of the closet and cant get any
> tuning function to work (no meter response on DRV, PLATE,
> and LOAD). This is a surprise! I do have 60ma bias and it
> adjusted properly.
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> I have tried replacing the drive tube several times and still
> no response. All front and back switches are correctly set
> (I think) as per the Manual.
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> I have no way to test the drives tubes - but have a whole box
> of them and some marked NEW. Its hard to believe all of these
> tubes are bad - I would still get some meter reading. I get
> no Drive deflection at all.
>
> I get no meter response whatever for any tuning function
> beyond the 60ma bias test.
>
> Any ideas?
>
> TNX & 73.
> KG0EI
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> [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

23118. Re: TS830S won't tune -- so need help ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-27 23:05:03 UTC
From: w5rkl
Topic: 23110 Message: 23118

Jerry,

The HV meter scale is "RED". Each number is a multiplied by "100". That means, 1 is "100", 2 is "200" etc.

Your said:

"... with the Mode on Tune and the Meter on HV, if I flip to Send I
do get full swing on the meter to the 300ma mark."

Repeat that step again, with the meter set to HV and note where the meter rest on the "RED" scale. Multiply the reading by 100 and you have the HV applied to the final amplifier. The small tick marks between the numbers on the RED scale represent "50 VDC". That means if the needle rest on the small tick mark between 8 and 9, the HV is "850VDC".

It is obvious there is HV present on the final tubes otherwise the meter would not be as high as it is.

I would not swap out any tubes, make any adjustments inside the radio, replace any capacitors, resistors, etc, until you clean the radio first. In most cases, dirt and corrosion is the cause of problems with radio that have sat for long periods of time.

Another issue you may be confronted with is arcing in the final tubes. Arcing occurs in power tubes such as the 6146 after they have sat for a very long time, 10 years in your case. Air leaks past the pins resulting in a build up of air (gas) within the tube glass envelope. When the tube conducts, the gas results in a positive ion explosion, arcing, to occur in the tube. There is no way to remove or eliminate the excessive gas in the tube. The only fix is to replace the tube. The arcing may not occur right away.

I have seen this quite often with final tubes that sit idle for long periods of time. I recently experienced this with a Heathkit HW-101 that sat for "20 years". The 6146 final tubes produce 100 watts output but, after about a week, the final tubes arced. The arcing occurred with only no signal idling current, 50 ma in the case of the HW-101, flowing in the tube. Replaced the tubes eliminated the problem.

I am not saying your lack of RF output is due to a gassy and/or faulty set of final tubes. At this point I do not believe that is the problem in your case. I am only warning you of the possibility of the final tubes arcing at a later time due to the tubes sitting for 10 years.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "jwarnerr" <jwarner1@...> wrote:
>
>
>
> Maybe I mispoke and didnt understand your question.

>
> There is a HV position on the meter switch I did not try. I
> dont know how to use this feature. But, with the Mode on Tune
> and the Meter on HV, if I flip to Send I do get full swing on
> the meter to the 300ma mark.
>
> What does this mean?
>
> Jerry
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Dick Merryman" <dicko@> wrote:
> >
> > Electrolytic capacitors generally fail after a long period of storage. I'm
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> >
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> > _____
> >
> > From: TS-520_820_530_830@yahoogroups.com
> > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of jwarnerr
> > Sent: Tuesday, October 27, 2009 10:50 AM
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: [TS-520_820_530_830] TS830S won't tune -- so need help ?
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> >
> >
> >
> > Last ran the TS830 in '99 and it ran fine (dxing).
> > Just pulled the rig out of the closet and cant get any
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> > I get no meter response whatever for any tuning function
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> > Any ideas?
> >
> > TNX & 73.
> > KG0EI
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> > [Non-text portions of this message have been removed]
> >
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23119. Re: TS830S won't tune -- so need help ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-27 23:07:04 UTC
From: w5rkl
Topic: 23110 Message: 23119

Greg,

Jerry said there was 60ma of idling current in his initial post.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Greg Anders <greg.anders@...> wrote:
>
> The HV position is to measure the high voltage on the finals. There should be a meter scale marked 0-1000 volts or so, marked "HV". When you go to transmit in SSB mode it should read around 850V, in CW under load it would dip to around 750V but since you see no plate current I wouldn't expect any loading on the HV supply to make it sag.
>
> So, the question is, do you have High Voltage as read on the front panel meter in transmit with the meter switch in the HV position?
>
> Greg
> KG6YV
>
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of jwarnerr
> Sent: Tuesday, October 27, 2009 1:09 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: TS830S won't tune -- so need help ?
>
>
>
>
> Maybe I mispoke and didnt understand your question.
>
> There is a HV position on the meter switch I did not try. I
> dont know how to use this feature. But, with the Mode on Tune
> and the Meter on HV, if I flip to Send I do get full swing on
> the meter to the 300ma mark.
>
> What does this mean?
>
> Jerry
>
> --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "Dick Merryman" <dicko@> wrote:
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> > Electrolytic capacitors generally fail after a long period of storage. I'm
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> > _____
> >
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> >
[mailto:TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>]
On Behalf Of jwarnerr
> > Sent: Tuesday, October 27, 2009 10:50 AM
> > To: TS-520_820_530_830@...m<mailto:TS-520_820_530_830%40yahoogroups.com>
> > Subject: [TS-520_820_530_830] TS830S won't tune -- so need help ?
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> > [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]

>

23120. RE: [TS-520_820_530_830] Re: TS830S won't tune -- so need help ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-27 23:20:45 UTC
From: Greg Anders
Topic: 23110 Message: 23120

Hmmm,

I am not sure if running the 6146 tetrodes for 8-10 hours to have some significant getter action clean up the gasses inside would be useful, but it wouldn't hurt before trying to drive them if they have been idle for 10 years.

Just a thought, if they weren't bad when they were put away they may be OK.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
Sent: Tuesday, October 27, 2009 4:05 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS830S won't tune -- so need help ?

Jerry,

The HV meter scale is "RED". Each number is a multiplied by "100". That means, 1 is "100", 2 is "200" etc.

Your said:

"... with the Mode on Tune and the Meter on HV, if I flip to Send I
do get full swing on the meter to the 300ma mark."

Repeat that step again, with the meter set to HV and note where the meter rest on the "RED" scale. Multiply the reading by 100 and you have the HV applied to the final amplifier. The small tick marks between the numbers on the RED scale represent "50 VDC". That means if the needle rest on the small tick mark between 8 and 9, the HV is "850VDC".

It is obvious there is HV present on the final tubes otherwise the meter would not be as high as it is.

I would not swap out any tubes, make any adjustments inside the radio, replace any capacitors, resistors, etc, until you clean the radio first. In most cases, dirt and corrosion is the cause of problems with radio that have sat for long periods of time.

Another issue you may be confronted with is arcing in the final tubes. Arcing occurs in power tubes such as the 6146 after they have sat for a very long time, 10 years in your case. Air leaks past the pins resulting in a build up of air (gas) within the tube glass envelope. When the tube conducts, the gas results in a positive ion explosion, arcing, to occur in the tube. There is no way to remove or eliminate the excessive gas in the tube. The only fix is to replace the tube. The arcing may not occur right away.

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tubes produce 100 watts output but, after about a week, the final tubes arced. The arcing occurred with only no signal idling current, 50 ma in the case of the HW-101, flowing in the tube. Replaced the tubes eliminated the problem.

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73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "jwarnerr" <jwarner1@...> wrote:
>
>
>
> Maybe I mispoke and didnt understand your question.
>
> There is a HV position on the meter switch I did not try. I
> dont know how to use this feature. But, with the Mode on Tune
> and the Meter on HV, if I flip to Send I do get full swing on
> the meter to the 300ma mark.
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> What does this mean?
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> --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "Dick Merryman" <dicko@> wrote:
> >
> > Electrolytic capacitors generally fail after a long period of storage. I'm
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> >
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> > From: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> >
[mailto:TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>]
On Behalf Of jwarnerr
> > Sent: Tuesday, October 27, 2009 10:50 AM
> > To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> > Subject: [TS-520_820_530_830] TS830S won't tune -- so need help ?
> >
> >
> >

> >
> > Last ran the TS830 in '99 and it ran fine (dxing).
> > Just pulled the rig out of the closet and cant get any
> > tuning function to work (no meter response on DRV, PLATE,
> > and LOAD). This is a surprise! I do have 60ma bias and it
> > adjusted properly.
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> > I have tried replacing the drive tube several times and still
> > no response. All front and back switches are correctly set
> > (I think) as per the Manual.
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> > I have no way to test the drives tubes - but have a whole box
> > of them and some marked NEW. Its hard to believe all of these
> > tubes are bad - I would still get some meter reading. I get
> > no Drive deflection at all.
> >
> > I get no meter response whatever for any tuning function
> > beyond the 60ma bias test.
> >
> > Any ideas?
> >
> > TNX & 73.
> > KG0EI
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> > [Non-text portions of this message have been removed]
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23121. RE: [TS-520_820_530_830] Re: TS830S won't tune -- so need help ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-27 23:24:38 UTC
From: Greg Anders
Topic: 23110 Message: 23121

Yeah, I finally saw his initial post. I would agree with your line of thinking, either dirty switches or the infamous Kenwood board connectors may be intermittent after 10 years on the shelf.
BTW, this may be why I have never seen such flakey-ness in TS520 units. They used wire wraps which someone was asking about here last week.... When Kenwood went to those nice little plastic plugs in the mid-eighties their radios became notorious for plugs that have to be removed/cleaned and reseated. Still, plugs make it easier to remove a board for repair no question.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
Sent: Tuesday, October 27, 2009 4:07 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS830S won't tune -- so need help ?

Greg,

Jerry said there was 60ma of idling current in his initial post.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, Greg Anders <greg.anders@...> wrote:
>
> The HV position is to measure the high voltage on the finals. There should be a meter scale marked 0-1000 volts or so, marked "HV". When you go to transmit in SSB mode it should read around 850V, in CW under load it would dip to around 750V but since you see no plate current I wouldn't expect any loading on the HV supply to make it sag.
>
> So, the question is, do you have High Voltage as read on the front panel meter in transmit with the meter switch in the HV position?
>
> Greg
> KG6YV
>
> From: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com> [mailto:TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of jwarnerr
> Sent: Tuesday, October 27, 2009 1:09 PM
> To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> Subject: [TS-520_820_530_830] Re: TS830S won't tune -- so need help ?
>

>
>
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> Maybe I mispoke and didnt understand your question.
>
> There is a HV position on the meter switch I did not try. I
> dont know how to use this feature. But, with the Mode on Tune
> and the Meter on HV, if I flip to Send I do get full swing on
> the meter to the 300ma mark.
>
> What does this mean?
>
> Jerry
>
> --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com><m
ailto:TS-520_820_530_830%40yahoogroups.com>, "Dick Merryman" <dicko@> wrote:
> >
> > Electrolytic capacitors generally fail after a long period of storage. I'm
> > guessing that you don't have high voltage. What does the meter say?
> >
> > -Dick-
> >
> >
> > _____
> >
> > From: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com><
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> > [mailto:TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com
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> > Sent: Tuesday, October 27, 2009 10:50 AM
> > To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com><ma
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> > Subject: [TS-520_820_530_830] TS830S won't tune -- so need help ?
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> > [Non-text portions of this message have been removed]
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23122. Re: TS830S won't tune -- so need help ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-27 22:22:35 UTC
From: jwarnerr
Topic: 23110 Message: 23122

Mike: Ill get some contact cleaner and do exactly as you
suggest and report back -
Tnx. Jerry

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Based on the information provided, it appears the HV, LV, filament, and bias supplies are working.
>
> The post stated the IP meter indicates 60ma of final tube idling current. That tells me the HV supply is working.
>
> I suspect dirty wafer switches on the FUNCTION, MODE, and BAND switch. Clean each switch wafer, one at a time. This includes the final cage switch wafer, don't forget that one.
>
> Clean the MIC and CAR control pots.
>
> Pull each PC board plug, give the pins and plugs a shot of cleaner, then insert and remove each plug a couple of times. Do this will each plug.
>
> Check each PC board mounting screw. Loosen the screws one full turn then tighten. Do this to the chassis grounds as well.
>
> Use canned air to remove any/all excess contact cleaner.
>
> Once all these steps have been done, tune the 830 up into a dummy load.
>
> I seriously doubt the HV filter capacitors are the source of this problem. The HV supply is working otherwise there would be no "no-signal" 60ma idling current indication on the IP meter in transmit. The "IP" meter indication is the final tube's "Plate current". It takes a voltage applied to the final tube's plate in order for electrons to flow through the tubes to create a current, hence 60ma IP idling current on the meter in transmit.
>
> 73's
> Mike W5RKL
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Dick Merryman" <dicko@> wrote:
> >
> > Electrolytic capacitors generally fail after a long period of storage. I'm
> > guessing that you don't have high voltage. What does the meter say?
> >
> > -Dick-
> >

> >
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> > From: TS-520_820_530_830@yahoogroups.com
> > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of jwarnerr
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> > [Non-text portions of this message have been removed]
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>

23123. Tuning the TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-28 00:42:36 UTC
From: h.clagett
Topic: 23123 Message: 23123

This is probably a stupid question form a beginner. I bought my TS-520 two years ago and I am about ready to put it on the air. My only experience thus far has been with solid state: ie, no final drive to tune. I plan on running it on a Butternut vertical thru an MJF "Tuner."
Do I tune the finals into a 50 ohm load and then tune the "Tuner" to the antenna? or simply connect the rig to the antenna and tune the finals w/o the "Tuner."

Thanks for any help you can provide.

Hal Clagett
KB3HAA
Wilmington, DE

23124. hi everyone im needing the following ok-

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-27 22:36:27 UTC
From: jon
Topic: 23124 Message: 23124

hi everyone im needing the following ok,

for a ts830s

VBT knob 3 k23-0740-04
VBT tone pot vr1 / r24-3402-05
IF shift-notch pot vr2 /r24-9401-05
MIC CAR pot vr9 / r24-3401-05
a pair of 6146B tubes and 2 12BY7A tubes ., and maybe a pair 6HF5 tubes and a 6GK6

if any one has the following or knows were i can get all of this at please contact me vi my email at my callsign as follows kg6nxx@...
my name is jon im in california thank you all very much and i,ll be standing by for all replys 73s for now .

kg6nxx jon.

23125. Re: [TS-520_820_530_830] Re: TS830S won't tune -- so need help ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-28 02:10:50 UTC
From: Charlie , W5COV
Topic: 23110 Message: 23125

Jerry , I recently obtained a TS-830S , that had set for a number of years . I followed their advice of a THOROUGH cleaning of all of the pots , switches etc. , with DeoxIT D5 . I took a long time on especially the bandswitch and I did almost miss the part in the final cage , because I hadn't got that far along to open it up , so don't forget it . Take a LOT of time cleaning the bandswitch .

When I brought the rig up on the Variac , everything on receive is smooth as silk . Well worth the investment in time .

I am listening to the receiver right now . I have not yet been able to try the transmitter , because I am waiting to order new finals , that this particular radio DOES need .

However following their step by step advice (THANKS GREG) , as I have already , I do not anticipate ANY problems with the transmitter .

You won't find anyone any better anywhere , than the guys on this group to get you up and running .

I am going through the cleaning process right now on the remote VFO-230 . However it was known to have "issues" , when I traded for the rig . But I have NO doubt , if I can't locate the problem , that this group WILL put me on the right track .

Best of Luck and I hope to work you soon , when we both get our rigs on the air !!

Charlie , W5COV

CV , 185.29825 kHz. , QRSS60 , 24/7 , EM26ex , Oklahoma

[Non-text portions of this message have been removed]

23126. Re: [TS-520_820_530_830] Tuning the TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-28 02:40:48 UTC
From: martin
Topic: 23123 Message: 23126

Hi Hal. You need to tune the the finals into a 50 Ohm dummy load first. Then you can adjust the tuner if necessary. Hopefully you set up the antenna so that most of the time you don't need the tuner. When you do, make note of the frequency, and the tuner settings. Make a chart of these frequencies and settings. This will help you set thing up quickly, and with minimum on-the-air test transmissions.

TTYL

h.clagett wrote:
> This is probably a stupid question form a beginner. I bought my
> TS-520 two years ago and I am about ready to put it on the air. My
> only experience thus far has been with solid state: ie, no final
> drive to tune. I plan on running it on a Butternut vertical thru
> an MJF "Tuner." Do I tune the finals into a 50 ohm load and then
> tune the "Tuner" to the antenna? or simply connect the rig to the
> antenna and tune the finals w/o the "Tuner."
>
> Thanks for any help you can provide.
>
> Hal Clagett KB3HAA Wilmington, DE
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at http://www.defectivebydesign.org/what_is_drm"

23127. Re: [TS-520_820_530_830] Tuning the TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-28 02:49:31 UTC
From: John Davidson
Topic: 23123 Message: 23127

I have a Butternut HF6V antenna and it certainly does NOT need a tuner unless you plan on operating 75/80 m from one end to the other !
 If you have it installed properly with radials and all, any band I have set it up (Initial adjustment) for has quite low SWR./
If you want to tune up on a dummy load for the initial adjustments for a particular freq, that can prevent some QRM on the air. This is great !
 Switching to the actual antenna, just will require a quick touch-up tweak on the loading and plate tuning.
The tube final and Pi network can do fine with a wide range of Z and X from oddball antennas. Save the tuner for your SolidState rigs..
73,   JD

--- On Tue, 10/27/09, h.clagett <h.clagett@...> wrote:

From: h.clagett <h.clagett@...>
Subject: [TS-520_820_530_830] Tuning the TS-520
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, October 27, 2009, 8:42 PM

This is probably a stupid question
 I plan on running it on a Butternut vertical thru an MJF "Tuner."

Recent Activity

 12
New MembersVisit Your Group

Biz Resources
Y! Small Business
Articles, tools,
forms, and more.

Support Group
Lose lbs together
Share your weight-
loss successes.

Yahoo! Groups
Dog Lovers Group
Connect and share with
dog owners like you
.

[Non-text portions of this message have been removed]

23128. Re: TS830S won't tune -- so need help ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-28 02:45:20 UTC
From: jwarnerr
Topic: 23110 Message: 23128

Cleaned all connections as per Mike and same as before. Hv
60ma about 900-950v HV ... no output or meter response on tuning.
Jerry

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
>
> Jerry,
>
> The HV meter scale is "RED". Each number is a multiplied by "100". That means, 1 is "100", 2 is "200" etc.
>
> Your said:
>
> "... with the Mode on Tune and the Meter on HV, if I flip to Send I
> do get full swing on the meter to the 300ma mark."
>
> Repeat that step again, with the meter set to HV and note where the meter rest on the "RED" scale. Multiply the reading by 100 and you have the HV applied to the final amplifier. The small tick marks between the numbers on the RED scale represent "50 VDC". That means if the needle rest on the small tick mark between 8 and 9, the HV is "850VDC".
>
> It is obvious there is HV present on the final tubes otherwise the meter would not be as high as it is.
>
> I would not swap out any tubes, make any adjustments inside the radio, replace any capacitors, resistors, etc, until you clean the radio first. In most cases, dirt and corrosion is the cause of problems with radio that have sat for long periods of time.
>
> Another issue you may be confronted with is arcing in the final tubes. Arcing occurs in power tubes such as the 6146 after they have sat for a very long time, 10 years in your case. Air leaks past the pins resulting in a build up of air (gas) within the tube glass envelope. When the tube conducts, the gas results in a positive ion explosion, arcing, to occur in the tube. There is no way to remove or eliminate the excessive gas in the tube. The only fix is to replace the tube. The arcing may not occur right away.
>
> I have seen this quite often with final tubes that sit idle for long periods of time. I recently experienced this with a Heathkit HW-101 that sat for "20 years". The 6146 final tubes produce 100 watts output but, after about a week, the final tubes arced. The arcing occurred with only no signal idling current, 50 ma in the case of the HW-101, flowing in the tube. Replaced the tubes eliminated the problem.
>
> I am not saying your lack of RF output is due to a gassy and/or faulty set of final tubes. At this point I do not believe that is the problem in your case. I am only warning you of the possibility of the final tubes arcing at a later time due to the tubes sitting

for 10 years.
>
>
> 73's
> Mike W5RKL
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "jwarnerr" <jwarner1@> wrote:
> >
> >
> >
> > Maybe I mispoke and didnt understand your question.
> >
> > There is a HV position on the meter switch I did not try. I
> > dont know how to use this feature. But, with the Mode on Tune
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> > What does this mean?
> >
> > Jerry
> > >
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Dick Merryman" <dicko@> wrote:
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> > > > Electrolytic capacitors generally fail after a long period of storage. I'm
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> > > >
> > > > -Dick-
> > > >
> > > >
> > > > _____
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> > > > From: TS-520_820_530_830@yahoogroups.com
> > > > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of jwarnerr
> > > > Sent: Tuesday, October 27, 2009 10:50 AM
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> > > [Non-text portions of this message have been removed]
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>

23129. Re: TS830S won't tune -- so need help ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-28 02:41:30 UTC
From: jwarnerr
Topic: 23110 Message: 23129

Did it all and same as before. Have 60ma bias and 900v HV.
No tuneup drive, carrier, plate, or load response. Im stumped.
Jerry

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Based on the information provided, it appears the HV, LV, filament, and bias supplies are working.
>
> The post stated the IP meter indicates 60ma of final tube idling current. That tells me the HV supply is working.
>
> I suspect dirty wafer switches on the FUNCTION, MODE, and BAND switch. Clean each switch wafer, one at a time. This includes the final cage switch wafer, don't forget that one.
>
> Clean the MIC and CAR control pots.
>
> Pull each PC board plug, give the pins and plugs a shot of cleaner, then insert and remove each plug a couple of times. Do this will each plug.
>
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>
> Use canned air to remove any/all excess contact cleaner.
>
> Once all these steps have been done, tune the 830 up into a dummy load.
>
> I seriously doubt the HV filter capacitors are the source of this problem. The HV supply is working otherwise there would be no "no-signal" 60ma idling current indication on the IP meter in transmit. The "IP" meter indication is the final tube's "Plate current". It takes a voltage applied to the final tube's plate in order for electrons to flow through the tubes to create a current, hence 60ma IP idling current on the meter in transmit.
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> Mike W5RKL
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> >
> >
> > [Non-text portions of this message have been removed]
> >
>

23130. Re: Eimac vacuum tube information.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-28 02:09:03 UTC
From: loewensteijn@rocketmail.com
Topic: 23109 Message: 23130

Mike,

Thank you for an interesting read. Found it quite revealing to read about a 3% filament voltage change can result in a 50% decrease of tube life. I am thinking about putting in a regulated heater supply. (easy enough to do)
73
Marinus
ZL2ML

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Here's an interesting link for those who are interested in reading about the "Care and Feeding of Power Grid Tubes".
>
> http://www.coutant.org/eimac/index.html
>
> 73's
> Mike W5RKL
>

23131. Re: [TS-520_820_530_830] Re: TS830S won't tune -- so need help ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-28 02:57:18 UTC
From: John Davidson
Topic: 23110 Message: 23131

You should be reading the Volts scale in the HV metering position, on the 520 meter the 300 MA on the IP scale lines up with about 875 volts, a good indication with no load (no current on the iP scale)....When I am loded up for 100 W out on CW, my HV is close to 825 Volts and iP is 200 ma.

--- On Tue, 10/27/09, jwarnerr <jwarner1@...> wrote:

From: jwarnerr <jwarner1@...>
Subject: [TS-520_820_530_830] Re: TS830S won't tune -- so need help ?
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, October 27, 2009, 4:09 PM

Maybe I mispoke and didnt understand your question.

There is a HV position on the meter switch I did not try. I
dont know how to use this feature. But, with the Mode on Tune
and the Meter on HV, if I flip to Send I do get full swing on
the meter to the 300ma mark.

What does this mean?

Jerry

--- In TS-520_820_530_ 830@yahoogroups. com, "Dick Merryman" <dicko@...> wrote:
>
> Electrolytic capacitors generally fail after a long period of storage. I'm
> guessing that you don't have high voltage. What does the meter say?
>
> -Dick-
>
>
> _____
>
> From: TS-520_820_530_ 830@yahoogroups. com
> [mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of jwarnerr
> Sent: Tuesday, October 27, 2009 10:50 AM
> To: TS-520_820_530_ 830@yahoogroups. com
> Subject: [TS-520_820_ 530_830] TS830S won't tune -- so need help ?
>
>
>
>
> Last ran the TS830 in '99 and it ran fine (dxing).
> Just pulled the rig out of the closet and cant get any
> tuning function to work (no meter response on DRV, PLATE,
> and LOAD). This is a surprise! I do have 60ma bias and it
> adjusted properly.

>
> I have tried replacing the drive tube several times and still
> no response. All front and back switches are correctly set
> (I think) as per the Manual.
>
> I have no way to test the drives tubes - but have a whole box
> of them and some marked NEW. Its hard to believe all of these
> tubes are bad - I would still get some meter reading. I get
> no Drive deflection at all.
>
> I get no meter response whatever for any tuning function
> beyond the 60ma bias test.
>
> Any ideas?
>
> TNX & 73.
> KG0EI
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

23132. Re: [TS-520_820_530_830] My Hybrid radio experiences.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-28 03:04:31 UTC
From: John Davidson
Topic: 23101 Message: 23132

The Blue glow on the inside surfce of the glass is "envelope fluorescense" and not the same as the harmful 'gassy tube' purple blue glow that shows up inside the plate's enclosed area.
The envelope glow is from the stream of a few of the accelerated electrons that blow right through the plate and hit the glass.
An erie effect but harmless.
73.....JD
--- On Tue, 10/27/09, Jim Stanicek <jimstan@...> wrote:

From: Jim Stanicek <jimstan@...>
Subject: Re: [TS-520_820_530_830] My Hybrid radio experiences.
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, October 27, 2009, 10:20 AM

I have seen tubes such as this with a faint blue glow clinging to the glass envelope. Is this what you are referring to ? I have had tubes do this, and work well for years! I wouldn't be concerned about it as long as the tube continues to work for you!

I can remember my Grandmother' s old console radio (Stromberg-Carlson) that had a 5U4 rectifier (I believe it was) that glowed an orange color for the first few moments that the set was turned on. Then when the filaments heated up and the tube started conducting, everything cleared up, and returned to normal. That set was old when I was first aware of it, and continued to operate for many years after.

"Hollow State", ya gotta LOVE it !

73, Jim

----- Original Message -----
From: allan_gm1sxx
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Monday, October 26, 2009 4:31 AM
Subject: [TS-520_820_ 530_830] My Hybrid radio experiences.

Hi Group.

My name is Allan and this is my first posting to the group.
I recently bought a rather nice TS-820S at a rally for not a lot of money. It passed the all-important 'sniff test', so I parted with my cash. I love these old hybrid radios and the most common reason I've found for low output power is a weak driver (12BY7A) bottle. So long as the radio hasn't been abused, and you can usually tell from the 'sniff test' and the state of the cabinet screws, the PA's are generally fine.
This one was giving rather less power than I had hoped for but replacing the driver with a known good one instantly restored the PA to full output. Driver failure is fairly common in these radios, I suspect caused mainly by the valves being over-voltaged deliberately.

Typically both Yaesu and Trio/Kenwood place over 300V on the anodes of a valve designed for 200-250. It shouldn't come as a surprise that thay fail quite frequently. The PA's in this radio were the Matsushita S2001A orginals and still work perfectly. I like this 820S. It's a classy radio. I bought it as an Autumn project, so I'm just a bit disappointed that it works so well :-)

The 12BY7A was designed for TV service, as a video amplifier. Here's something strange I've noticed about them. Every one I've tried, and thats been a few dozen good NOS and ex-equipment tested ones, has exhibited a faint internal glow on TX. Not like the harsh glow of a 'soft' valve, which is often external to the anode structure, but in the inter-electrode gap between cathode and anode. Am internal blue glow is often present in 'soft' valves, but all of these tested good on a valve tester and work perfectly in a radio. The glow is very pale blue in colour and only visible in a darkened room, not like the deep blue of violet glow you get with a soft tube.

I suspect this is the result of feeding them excessive anode voltage.
nearer 350 rather than the specified 250 (maximum)... . probably does them no good at all.

http://www.r- type.org/ exhib/aaa0086. htm

I've had quite a few hybrid radios through my hands for repair and only one had bad PA bottles (killed by gross abuse.. melted envelopes). All of the others had good PA's but most had sick 12BY7A drivers. So next time your power output is low, swap out the driver and see how it goes.
It's a cheaper option than replacing the PA's only to find they are not faulty after all.

My other hybrids are FT102 FT200 and FL101/FR101, so this is my first Kenwood radio, and I rather like it.

Vy 73 Al.
GM1SXX
www.observations. biz

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23133. Re: TS830S won't tune -- so need help ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-28 03:27:34 UTC
From: james27613
Topic: 23110 Message: 23133

hi Jeremiah,

are you able to receive anything, even WWV
on the radio ?

is the calibrator working ?

when you are inside the radio please check the
shaft coupler inside the final cage,
DANGER, high voltage inside
(don't want to be a wise guy).

73 james ke4drn

23134. Re: Tuning the TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-28 04:18:24 UTC
From: David
Topic: 23123 Message: 23134

Hi Hal.
I have to say that the only stupid question is the one never asked.
Also you answered your own post. Tune into a dummy load then tweak on the freq you are going to TX on.
Enjoy the TS-520. i have had mine for a long time. they are sturdy radio's and love to be used.
73's
Dave
kg4uxr

--- In TS-520_820_530_830@yahoogroups.com, "h.clagett" <h.clagett@...> wrote:
>
> This is probably a stupid question form a beginner. I bought my TS-520 two years ago and I am about ready to put it on the air. My only experience thus far has been with solid state: ie, no final drive to tune. I plan on running it on a Butternut vertical thru an MJF "Tuner."
> Do I tune the finals into a 50 ohm load and then tune the "Tuner" to the antenna? or simply connect the rig to the antenna and tune the finals w/o the "Tuner."
>
> Thanks for any help you can provide.
>
> Hal Clagett
> KB3HAA
> Wilmington, DE
>

23135. Re: TS830S won't tune -- so need help ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-28 04:11:31 UTC
From: jwarnerr
Topic: 23110 Message: 23135

Recive and all other functions are normal. Calbiration works.
The radio is very sound mechnically, all shafts etc. Everything
inside the cage is normal. 6146s even look normal. This radio
has had excellent care+ as with all my gear. I guess I find a
radio repair man tomorrow. I shouldnt complain especially after
all the many years of problem free service the radio has given
but I am totally perplexed.
Tnx 73. Jerry

--- In TS-520_820_530_830@yahoogroups.com, "james27613" <james27613@...> wrote:
>
> hi Jeremiah,
>
> are you able to receive anything, even WWV
> on the radio ?
>
> is the calibrator working ?
>
> when you are inside the radio please check the
> shaft coupler inside the final cage,
> DANGER, high voltage inside
> (don't want to be a wise guy).
>
> 73 james ke4drn
>

23136. Kenwood DG-5

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-28 07:20:17 UTC
From: jsloss
Topic: 23136 Message: 23136

My DG-5 is behaving badly! It operates correctly in all respects but occasionally the tens digit will decrease 2 numerals. ie 3523.3 becomes 3503.3, 7236.5 becomes 7216.5. This 20 Kc drop occurs with both even and odd number tens digits with all bands being affected. The "drop down" only lasts for a split second or so. This 20 Kc shift occurs from a cold start of the TS-520 and the counter.

The problem is in this DG-5 as my other DG-5 has no operating problems when used with the same rig. I randomly selected the above frequencies as an example and could have used any band and any frequency with an even or odd number tens digit for my example.

I suspect this is an electrical problem rather than a cold solder joint or broken trace. Would appreciate thoughts as to the specific area to start troubleshooting.

Thank you

Joe k7mks

[Non-text portions of this message have been removed]

23137. Re: My Hybrid radio experiences.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-28 09:58:03 UTC
From: allan_gm1sxx
Topic: 23101 Message: 23137

Hi group.

My posting re the faint blue glow 'inside' the anode structure seems to have spawned a few replies. I've seen typical'gassy' valves with their 'harsh', often dark blue, fluorescence.. but what I'm describing is completely different.

Every 12BY7A I've looked at to date has glowed internally (inside the anode structure) when viewed in a darkened room. The glow is faint and is pale blue in colour and of course only present when the radio is keyed. In fact I use this fluorescence to determine if the driver stage is getting HT, without having to bother measuring it.

All of these valves test good in a valve tester and all provide full output, so I'm wondering if the elevated anode voltage is a factor? The 12BY7A was designed for 200-250 on the anode, but in Yaesu and Kenwood radios, is typically fed over 300V. My FT-102 delivers 350V to the anode... ouch! I haven't measured the voltage on my TS-820S... yet.

If anything, it does demonstrate that a blue glow in the inter-electrode space doesn't guarantee that you have a dud.

Although the 12BY7A driver seems to have a short life in Yaesu and Kenwood hybrid radios, this is rarely ever the case when they are run under the specified operating conditions. Perhaps they are operated on an elevated voltage because it simplified the PSU design, or maybe it provides a bit of extra drive. I'm not sure.

73 Al.
GM1SXX

23138. Re: Kenwood DG-5

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-28 18:07:57 UTC
From: scott10k
Topic: 23136 Message: 23138

Joe,
I don't have a solution to your specific problem, but I was able to improve the stability of my DG-5 (and remove "hash" in the TS-520S), by applying a couple of the Kenwood suggested "fixes" on Mods.dk under Kenwood DG-5. I installed the voltage regulator by-pass capacitor, and also found one shorted trace.
73s, Scott, N6CIC

--- In TS-520_820_530_830@yahoogroups.com, "jsloss" <k7mks@...> wrote:
>
> My DG-5 is behaving badly! It operates correctly in all respects but occasionally the tens digit will decrease 2 numerals. ie 3523.3 becomes 3503.3, 7236.5 becomes 7216.5. This 20 Kc drop occurs with both even and odd number tens digits with all bands being affected. The "drop down" only lasts for a split second or so. This 20 Kc shift occurs from a cold start of the TS-520 and the counter.
>
> The problem is in this DG-5 as my other DG-5 has no operating problems when used with the same rig. I randomly selected the above frequencies as an example and could have used any band and any frequency with an even or odd number tens digit for my example.
>
> I suspect this is an electrical problem rather than a cold solder joint or broken trace. Would appreciate thoughts as to the specific area to start troubleshooting.
>
> Thank you
>
> Joe k7mks
>
> [Non-text portions of this message have been removed]
>

23139. Re: [TS-520_820_530_830] Re: My Hybrid radio experiences.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-28 19:04:38 UTC
From: Dave
Topic: 23101 Message: 23139

Hi,
"Although the 12BY7A driver seems to have a short life in Yaesu and Kenwood hybrid radios"
My driver and finals are original and still going strong.
73 Dave f4eyk

[Non-text portions of this message have been removed]

23140. RE: [TS-520_820_530_830] Re: My Hybrid radio experiences.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-28 19:52:36 UTC
From: Greg Anders
Topic: 23101 Message: 23140

I have owned six hybrids and never replaced a 12BY7 either.

Greg

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Dave
Sent: Wednesday, October 28, 2009 12:05 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: My Hybrid radio experiences.

Hi,
"Although the 12BY7A driver seems to have a short life in Yaesu and Kenwood hybrid radios"
My driver and finals are original and still going strong.
73 Dave f4eyk

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23141. Re: TS830S won't tune -- so need help ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-28 20:43:12 UTC
From: james27613
Topic: 23110 Message: 23141

Hi Jerry,

the other kenwood hybrids have a FET that
drives the 12BY7A driver tube,
perhaps this is true for the 830S?

found this in the files section on Fixes

TS-830S
Low output, 5 w or less on all bands
C69 150pf at Q6/Q7
and grid 1 input of 12BY7A.
Internally open.

73 james ke4drn

> Recive and all other functions are normal. Calbiration works.
> The radio is very sound mechnically, all shafts etc. Everything
> inside the cage is normal. 6146s even look normal. This radio
> has had excellent care+ as with all my gear. I guess I find a
> radio repair man tomorrow. I shouldnt complain especially after
> all the many years of problem free service the radio has given
> but I am totally perplexed.
> Tnx 73. Jerry

23142. RE: [TS-520_820_530_830] Re: TS830S won't tune -- so need help ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-28 20:45:25 UTC
From: Greg Anders
Topic: 23110 Message: 23142

James has a good point. Several on this list have had to replace that FET recently. I think it's a 3SK41.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of james27613
Sent: Wednesday, October 28, 2009 1:43 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS830S won't tune -- so need help ?

Hi Jerry,

the other kenwood hybrids have a FET that
drives the 12BY7A driver tube,
perhaps this is true for the 830S?

found this in the files section on Fixes

TS-830S
Low output, 5 w or less on all bands
C69 150pf at Q6/Q7
and grid 1 input of 12BY7A.
Internally open.

73 james ke4drn

> Recive and all other functions are normal. Calbiration works.
> The radio is very sound mechnically, all shafts etc. Everything
> inside the cage is normal. 6146s even look normal. This radio
> has had excellent care+ as with all my gear. I guess I find a
> radio repair man tomorrow. I shouldnt complain especially after
> all the many years of problem free service the radio has given
> but I am totally perplexed.
> Tnx 73. Jerry

[Non-text portions of this message have been removed]

23143. Re: My Hybrid radio experiences.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-28 20:26:33 UTC
From: loewensteijn@rocketmail.com
Topic: 23101 Message: 23143

The RCA tubes are rated at 330 V so Kenwood is not exceeding the ratings.

On another note: these tubes are sensitive to filament heating voltages unlike the 6146B which can withstand a wide range of filament voltages.

Run these rigs of a regulated 13 V power supply and adjust the voltage that the filament exactly is 12.6 V while transmitting. You will not be sorry! See the recent link to the Eimac documents on tube life.

Marinus
ZL2ML

--- In TS-520_820_530_830@yahoogroups.com, "Jim Stanicek" <jimstan@...> wrote:
>
> I have seen tubes such as this with a faint blue glow clinging to the glass envelope. Is this what you are referring to ? I have had tubes do this, and work well for years! I wouldn't be concerned about it as long as the tube continues to work for you!
>
> I can remember my Grandmother's old console radio (Stromberg-Carlson) that had a 5U4 rectifier (I believe it was) that glowed an orange color for the first few moments that the set was turned on. Then when the filaments heated up and the tube started conducting, everything cleared up, and returned to normal. That set was old when I was first aware of it, and continued to operate for many years after.
>
> "Hollow State", ya gotta LOVE it !
>
> 73, Jim
>
>
> ----- Original Message -----
> From: allan_gm1sxx
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, October 26, 2009 4:31 AM
> Subject: [TS-520_820_530_830] My Hybrid radio experiences.
>
>
>
> Hi Group.
>
> My name is Allan and this is my first posting to the group.
> I recently bought a rather nice TS-820S at a rally for not a lot of money. It passed the all-important 'sniff test', so I parted with my cash. I love these old hybrid radios and the most common reason I've found for low output power is a weak driver (12BY7A) bottle. So long as the radio hasn't been abused, and you can usually tell from the 'sniff test' and the state of the cabinet screws, the PA's are generally fine.
> This one was giving rather less power than I had hoped for but replacing the driver with a known good one instantly restored the PA to full output. Driver failure is fairly common

in these radios, I suspect caused mainly by the valves being over-voltaged deliberately.
>
> Typically both Yaesu and Trio/Kenwood place over 300V on the anodes of a valve designed for 200-250. It shouldn't come as a surprise that thay fail quite frequently. The PA's in this radio were the Matsushita S2001A orginals and still work perfectly. I like this 820S. It's a classy radio. I bought it as an Autumn project, so I'm just a bit disappointed that it works so well :-)
>
> The 12BY7A was designed for TV service, as a video amplifier. Here's something strange I've noticed about them. Every one I've tried, and thats been a few dozen good NOS and ex-equipment tested ones, has exhibited a faint internal glow on TX. Not like the harsh glow of a 'soft' valve, which is often external to the anode structure, but in the inter-electrode gap between cathode and anode. Am internal blue glow is often present in 'soft' valves, but all of these tested good on a valve tester and work perfectly in a radio. The glow is very pale blue in colour and only visible in a darkened room, not like the deep blue of violet glow you get with a soft tube.
>
> I suspect this is the result of feeding them excessive anode voltage.
> nearer 350 rather than the specified 250 (maximum).... probably does them no good at all.
>
> http://www.r-type.org/exhib/aaa0086.htm
>
> I've had quite a few hybrid radios through my hands for repair and only one had bad PA bottles (killed by gross abuse.. melted envelopes). All of the others had good PA's but most had sick 12BY7A drivers. So next time your power output is low, swap out the driver and see how it goes.
> It's a cheaper option than replacing the PA's only to find they are not faulty after all.
>
> My other hybrids are FT102 FT200 and FL101/FR101, so this is my first Kenwood radio, and I rather like it.
>
> Vy 73 Al.
> GM1SXX
> www.observations.biz
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

23144. Re: [TS-520_820_530_830] Re: Kenwood DG-5

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-28 20:50:04 UTC
From: jsloss
Topic: 23136 Message: 23144

Thank you Scott

Joe

[Non-text portions of this message have been removed]

23145. Kenwood hybrid model range.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-28 22:06:46 UTC
From: gazza2p
Topic: 23145 Message: 23145

HI Guys,
Is there a short history of the different model trancseivers available for the Kenwood hybrids series on this site. I have a TS-530S and would like to know where it fits into the family tree.

23146. Re: [TS-520_820_530_830] Re: TS830S won't tune -- so need help ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-28 23:50:09 UTC
From: Daniel TOESCA
Topic: 23110 Message: 23146

Jerry, Do you have another receiver to listen to your transmit frequency and see if any signal is produced before the PA or before the driver ??? Maybe you can check the RF driving the 12BY7 and what goes out of it ?? I think there is a service manual available. The user's manual schematic will help too. Don't give up, it's easier to find a dead issue than an intermittent one. Good luck & 73's - Daniel, ON5PY

2009/10/28, jwarnerr <jwarner1@...>:
>
>
>
>
> Recive and all other functions are normal. Calbiration works.
> The radio is very sound mechnically, all shafts etc. Everything
> inside the cage is normal. 6146s even look normal. This radio
> has had excellent care+ as with all my gear. I guess I find a
> radio repair man tomorrow. I shouldnt complain especially after
> all the many years of problem free service the radio has given
> but I am totally perplexed.
> Tnx 73. Jerry
>
> --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> "james27613" <james27613@...> wrote:
> >
> > hi Jeremiah,
> >
> > are you able to receive anything, even WWV
> > on the radio ?
> >
> > is the calibrator working ?
> >
> > when you are inside the radio please check the
> > shaft coupler inside the final cage,
> > DANGER, high voltage inside
> > (don't want to be a wise guy).
> >
> > 73 james ke4drn
> >
>
>
>

[Non-text portions of this message have been removed]

23147. RE: [TS-520_820_530_830] Kenwood hybrid model range.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-29 00:19:40 UTC
From: Dick Merryman
Topic: 23145 Message: 23147

Look at K4EAA's website. He tells the whole story.

-Dick-
N3XRU

_____

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of gazza2p
Sent: Wednesday, October 28, 2009 3:07 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Kenwood hybrid model range.

HI Guys,
Is there a short history of the different model trancseivers available for
the Kenwood hybrids series on this site. I have a TS-530S and would like to
know where it fits into the family tree.

[Non-text portions of this message have been removed]

23148. TS-530S ALC Problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-29 06:59:30 UTC
From: ah6rr1
Topic: 23148 Message: 23148

I have a 530 that has a problem with the ALC the meter wil jump around all over the place. I have replaced the driver tube with a new one and it was working fine. then all of a sudden no ALC control at all. I do notice when I move the 300A wire the meter will peg even with the Car control turned all the way down. Also I can not get the IP to change from 85-90mils in any mode. Does anyone have any suggestions?
Thanks
Roland AH6RR

23149. Re: TS-530S ALC Problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-29 13:43:41 UTC
From: w5rkl
Topic: 23148 Message: 23149

Hello Roland,

ALC is not produced in the driver tube or the RF UNIT. ALC is produced on the AF UNIT and only when the final tube grids are driven positive.

What "300A" connection are you talking about, IF UNIT 300A or the RF UNIT 300A? I suspect you meant plug 7 pin 4 on the RF UNIT.

Plug 7 pin 4 (300A) provides the driver tube plate voltage. If plug 7 is intermittent then the driver tube's plate voltage will also be intermittent resulting in intermittent RF output in transmit and, if the driver tube signal level is high enough to push the final tube grids positive, there will be intermittent ALC as well. Intermittent RF output from the driver tube due to intermittent plate voltage on the driver tube, the RF output of the 530 will also be intermittent.

I recommend checking the driver tube's plate voltage, pin 7 on the driver tube socket.

Connect a DC volt meter to plug 7 pin 4 on the RF UNIT. The voltage should be approximately 363VDC in receive and 320VDC in transmit.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "ah6rr1" <ah6rr@...> wrote:
>
> I have a 530 that has a problem with the ALC the meter wil jump around all over the place. I have replaced the driver tube with a new one and it was working fine. then all of a sudden no ALC control at all. I do notice when I move the 300A wire the meter will peg even with the Car control turned all the way down. Also I can not get the IP to change from 85-90mils in any mode. Does anyone have any suggestions?
> Thanks
> Roland AH6RR
>

23150. Re: TS-530S ALC Problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-29 16:40:30 UTC
From: ah6rr1
Topic: 23148 Message: 23150

Hello Mike,
I forgot to say what 300A it is the one on the IF board I will pull the board and check ti pins for a bad solder joint since when I touch it it makes the ALC meter jump all over the place. after that I will check the plate voltage for the driver tube. Thanks for your input on this. Then I will tackle the RIT not working on this rig.
73
Roland AH6RR

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello Roland,
>
> ALC is not produced in the driver tube or the RF UNIT. ALC is produced on the AF UNIT and only when the final tube grids are driven positive.
>
> What "300A" connection are you talking about, IF UNIT 300A or the RF UNIT 300A? I suspect you meant plug 7 pin 4 on the RF UNIT.
>
> Plug 7 pin 4 (300A) provides the driver tube plate voltage. If plug 7 is intermittent then the driver tube's plate voltage will also be intermittent resulting in intermittent RF output in transmit and, if the driver tube signal level is high enough to push the final tube grids positive, there will be intermittent ALC as well. Intermittent RF output from the driver tube due to intermittent plate voltage on the driver tube, the RF output of the 530 will also be intermittent.
>
> I recommend checking the driver tube's plate voltage, pin 7 on the driver tube socket.
>
> Connect a DC volt meter to plug 7 pin 4 on the RF UNIT. The voltage should be approximately 363VDC in receive and 320VDC in transmit.
>
> 73's
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "ah6rr1" <ah6rr@> wrote:
> >
> > I have a 530 that has a problem with the ALC the meter wil jump around all over the place. I have replaced the driver tube with a new one and it was working fine. then all of a sudden no ALC control at all. I do notice when I move the 300A wire the meter will peg even with the Car control turned all the way down. Also I can not get the IP to change from 85-90mils in any mode. Does anyone have any suggestions?
> > Thanks
> > Roland AH6RR
> >
>

23151. Re: TS-530S ALC Problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-29 17:55:33 UTC
From: w5rkl
Topic: 23148 Message: 23151

That's good to know.

The driver tube receives it plate voltage directly from the IF UNIT's plug 4 pin 1 "300A" connection.

As I stated before, if the driver tube plate voltage is intermittent the driver tube's RF output will also be intermittent which will lead to an erratic ALC meter indication in TUNE, USB, and LSB modes. ALC is not used nor will there be an ALC indication in CW-W or CW-N mode regardless of the RF output and where you set the CAR Control.

Once you fix the IF UNIT's plug 4 pin 1 intermittent connection that is causing the intermittent driver tube plate voltage, the ALC meter indication and RF output should settle down and operate normal. That assumes there are no other problems.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "ah6rr1" <ah6rr@...> wrote:
>
> Hello Mike,
> I forgot to say what 300A it is the one on the IF board I will pull the board and check ti pins for a bad solder joint since when I touch it it makes the ALC meter jump all over the place. after that I will check the plate voltage for the driver tube. Thanks for your input on this. Then I will tackle the RIT not working on this rig.
> 73
> Roland AH6RR
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Hello Roland,
> >
> > ALC is not produced in the driver tube or the RF UNIT. ALC is produced on the AF UNIT and only when the final tube grids are driven positive.
> >
> > What "300A" connection are you talking about, IF UNIT 300A or the RF UNIT 300A? I suspect you meant plug 7 pin 4 on the RF UNIT.
> >
> > Plug 7 pin 4 (300A) provides the driver tube plate voltage. If plug 7 is intermittent then the driver tube's plate voltage will also be intermittent resulting in intermittent RF output in transmit and, if the driver tube signal level is high enough to push the final tube grids positive, there will be intermittent ALC as well. Intermittent RF output from the driver tube due to intermittent plate voltage on the driver tube, the RF output of the 530 will also be intermittent.
> >
> > I recommend checking the driver tube's plate voltage, pin 7 on the driver tube socket.
> >

> > Connect a DC volt meter to plug 7 pin 4 on the RF UNIT. The voltage should be approximately 363VDC in receive and 320VDC in transmit.
> >
> > 73's
> > Mike W5RKL
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "ah6rr1" <ah6rr@> wrote:
> > >
> > > I have a 530 that has a problem with the ALC the meter wil jump around all over the place. I have replaced the driver tube with a new one and it was working fine. then all of a sudden no ALC control at all. I do notice when I move the 300A wire the meter will peg even with the Car control turned all the way down. Also I can not get the IP to change from 85-90mils in any mode. Does anyone have any suggestions?
> > > Thanks
> > > Roland AH6RR
> > >
> >
>

23152. Hybird 520s MOD

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-29 09:11:25 UTC
From: Karl
Topic: 23152 Message: 23152

What is the best way to get the 520s to cover 11 meters? will the ext Vfo cover that range with out touching the insides of the 520? thanks for any help

23153. Re: Hybird 520s MOD

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-29 19:37:07 UTC
From: w5rkl
Topic: 23152 Message: 23153

No, the external VFO will not make the TS-520 operate on 11 meters.

Unfortunately, I do not recommend nor would I support converting a TS-520 to operate on 11 meters. That's me, others may think differently.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Karl" <kb1nzq@...> wrote:
>
>
> What is the best way to get the 520s to cover 11 meters? will the ext Vfo cover that range with out touching the insides of the 520? thanks for any help
>

23154. Re: [TS-520_820_530_830] Re: Hybird 520s MOD

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-29 19:45:42 UTC
From: Charlie , W5COV
Topic: 23152 Message: 23154

The one I own was on CB when I bought it . As soon as I walked in the door after buying it years ago , the covers came off .

Luckily he had saved the original 10 meter crystal. In those days my ability to work on radios wasn't challenged .

However it took me all one afternoon to convert it back to 10 meters . Not an easy job to get to the crystal and then line things up.

I would NEVER consider putting one on CB .

That is both from the legal standpoint and the work involved .

Charlie , W5COV

[Non-text portions of this message have been removed]

23155. Re: [TS-520_820_530_830] Hybird 520s MOD

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-29 20:14:43 UTC
From: Jim Stanicek
Topic: 23152 Message: 23155

YOU SHOULD NOT, UNDER ANY CIRCUMSTANCES, MODIFY A RADIO MEANT FOR THE AMATEUR SERVICE TO OPERATE ON THAT BAND! IT IS HIGHLY ILLEGAL, AND IF YOU WOULD GET CAUGHT OPERATING SUCH A THING, YOU COULD INCUR A LARGE FINE, AND NEVER BE ALLOWED TO OPERATE ANY OTHER SERVICE, EVER! ! !

That is the gosh awful truth, whether you want to hear it or not! No self respecting amateur radio operator should offer you the method to do this, if indeed there is such a method!

That's all I have to say about that !

Jim AG3Y (Amateur Extra Class since the early 1970s)

----- Original Message -----
From: Karl
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, October 29, 2009 5:11 AM
Subject: [TS-520_820_530_830] Hybird 520s MOD

What is the best way to get the 520s to cover 11 meters? will the ext Vfo cover that range with out touching the insides of the 520? thanks for any help

[Non-text portions of this message have been removed]

23156. Re: TS-530S ALC Problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-29 20:14:37 UTC
From: ah6rr1
Topic: 23148 Message: 23156

Well that was the problem Mike it was a bad connection joint at plug 4 pin 1, got that redone and that is all fine now. Thanks Mike for comfirming that for me. I also got the RIT/XIT working a wire was broken off the band swtich where the RIT wires are tied that goes to the VFO. The rig is like new again (Well alomst). Again Thaks
73
Roland AH6RR
--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> That's good to know.
>
> The driver tube receives it plate voltage directly from the IF UNIT's plug 4 pin 1 "300A" connection.
>
> As I stated before, if the driver tube plate voltage is intermittent the driver tube's RF output will also be intermittent which will lead to an erratic ALC meter indication in TUNE, USB, and LSB modes. ALC is not used nor will there be an ALC indication in CW-W or CW-N mode regardless of the RF output and where you set the CAR Control.
>
> Once you fix the IF UNIT's plug 4 pin 1 intermittent connection that is causing the intermittent driver tube plate voltage, the ALC meter indication and RF output should settle down and operate normal. That assumes there are no other problems.
>
>
> 73's
> Mike W5RKL
>
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "ah6rr1" <ah6rr@> wrote:
> >
> > Hello Mike,
> > I forgot to say what 300A it is the one on the IF board I will pull the board and check ti pins for a bad solder joint since when I touch it it makes the ALC meter jump all over the place. after that I will check the plate voltage for the driver tube. Thanks for your input on this. Then I will tackle the RIT not working on this rig.
> > 73
> > Roland AH6RR
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > >
> > > Hello Roland,
> > >
> > > ALC is not produced in the driver tube or the RF UNIT. ALC is produced on the AF UNIT

and only when the final tube grids are driven positive.
> > >
> > > What "300A" connection are you talking about, IF UNIT 300A or the RF UNIT 300A? I suspect you meant plug 7 pin 4 on the RF UNIT.
> > >
> > > Plug 7 pin 4 (300A) provides the driver tube plate voltage. If plug 7 is intermittent then the driver tube's plate voltage will also be intermittent resulting in intermittent RF output in transmit and, if the driver tube signal level is high enough to push the final tube grids positive, there will be intermittent ALC as well. Intermittent RF output from the driver tube due to intermittent plate voltage on the driver tube, the RF output of the 530 will also be intermittent.
> > >
> > > I recommend checking the driver tube's plate voltage, pin 7 on the driver tube socket.
> > >
> > > Connect a DC volt meter to plug 7 pin 4 on the RF UNIT. The voltage should be approximately 363VDC in receive and 320VDC in transmit.
> > >
> > > 73's
> > > Mike W5RKL
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "ah6rr1" <ah6rr@> wrote:
> > > >
> > > > I have a 530 that has a problem with the ALC the meter wil jump around all over the place. I have replaced the driver tube with a new one and it was working fine. then all of a sudden no ALC control at all. I do notice when I move the 300A wire the meter will peg even with the Car control turned all the way down. Also I can not get the IP to change from 85-90mils in any mode. Does anyone have any suggestions?
> > > > Thanks
> > > > Roland AH6RR
> > > >
> > >
> >
>

23157. Re: Hybird 520s MOD

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-29 20:22:45 UTC
From: ah6rr1
Topic: 23152 Message: 23157

I would never put any real radio on 11 meters if you want 11 meters there are plenty of CB Radios that operate there buy one of them dont put your 520 there it's illegal for one thing and a lot of work for another. My first 520 was on 11 meters when I bought it for $75 in 1982 and I had to order the crystals install them and tune it back for 10 meters took most of the day to do it right.
My $.02 worth
Roland AH6RR

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> No, the external VFO will not make the TS-520 operate on 11 meters.
>
> Unfortunately, I do not recommend nor would I support converting a TS-520 to operate on 11 meters. That's me, others may think differently.
>
> 73s
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Karl" <kb1nzq@> wrote:
> >
> >
> > What is the best way to get the 520s to cover 11 meters? will the ext Vfo cover that range with out touching the insides of the 520? thanks for any help
> >
>

23158. Re: [TS-520_820_530_830] Hybird 520s MOD

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-29 20:25:45 UTC
From: John Davidson
Topic: 23152 Message: 23158

Don't Do It !
go to a truck stop and but cb radio for 39 bucks and don't,
 DON'T ruin a good Amateur radio transceiver !!!

--- On Thu, 10/29/09, Karl <kb1nzq@...> wrote:

From: Karl <kb1nzq@...>
Subject: [TS-520_820_530_830] Hybird 520s MOD
To: TS-520_820_530_830@yahoogroups.com
Date: Thursday, October 29, 2009, 5:11 AM

What is the best way to get the 520s to cover 11 meters? will the ext Vfo cover that range with out touching the insides of the 520? thanks for any help

[Non-text portions of this message have been removed]

23159. Re: [TS-520_820_530_830] Re: Hybrid 520s MOD

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-29 20:34:57 UTC
From: K5vse-Mike
Topic: 23152 Message: 23159

Roland,

You're totally right on that. When I worked for SBE way back when, the CBers hated me. I was senior tech, amateur division, but when work was slow I was "forced" to work on their chicken band radios. When one would cross my bench with modifications, the first thing I did was rip them all out, fix the problem and have it shipped back to the owner. At one time I had a box that we weighed just to see how much junk I had removed from modified radios. If memory serves me, it was around 30 lbs. I received many letters and phone calls from irate clients griping about the missing mods. I had to explain the legalities of the situation and the consequences to my first class radio phone license should I have left the mods. I was threatened with law suits etc. Never did happen though. HI HI

NO, don't modify any amateur radio to operate on 11 meters!!!!!

73 y'all
Mike-K5VSE

Formerly WB6VSE, Senior Tech. Amateur Division
SBE/Linear Systems, Watsonville, CA
WEB Site: http://members.tripod.com/~sjsharks/index.html
Restoring and using Drake Radios, TR-4, TR-4C, RV-4C,
Drake Twins: "C" line, W-4 Wattmeter, L4-B amplifier
APA 220, USS Okanogan, LSD31, USS Point Defiance
All email scanned with Norton 2009
"In God We Trust"

[Non-text portions of this message have been removed]

23160. Re: [TS-520_820_530_830] Re: Hybird 520s MOD

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-29 20:38:36 UTC
From: John Davidson
Topic: 23152 Message: 23160

ANYway, most CB radios have hotter receivers han a 520, since they are design optimized for that single band.

--- On Thu, 10/29/09, ah6rr1 <ah6rr@arrl.net> wrote:

From: ah6rr1 <ah6rr@...>
Subject: [TS-520_820_530_830] Re: Hybird 520s MOD
To: TS-520_820_530_830@yahoogroups.com
Date: Thursday, October 29, 2009, 4:22 PM

I would never put any real radio on 11 meters if you want 11 meters there are plenty of CB Radios that operate there buy one of them dont put your 520 there it's illegal for one thing and a lot of work for another. My first 520 was on 11 meters when I bought it for $75 in 1982 and I had to order the crystals install them and tune it back for 10 meters took most of the day to do it right.
My $.02 worth
Roland AH6RR

--- In TS-520_820_530_ 830@yahoogroups. com, "w5rkl" <w5rkl@...> wrote:
>
> No, the external VFO will not make the TS-520 operate on 11 meters.
>
> Unfortunately, I do not recommend nor would I support converting a TS-520 to operate on 11 meters. That's me, others may think differently.
>
> 73s
> Mike W5RKL
>
>
> --- In TS-520_820_530_ 830@yahoogroups. com, "Karl" <kb1nzq@> wrote:
> >
> >
> > What is the best way to get the 520s to cover 11 meters? will the ext Vfo cover that range with out touching the insides of the 520? thanks for any help
> >
>

[Non-text portions of this message have been removed]

23161. Re: TS-530S ALC Problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-29 20:42:24 UTC
From: w5rkl
Topic: 23148 Message: 23161

That's great Roland. Glad your 530's working now.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "ah6rr1" <ah6rr@...> wrote:
>
> Well that was the problem Mike it was a bad connection joint at plug 4 pin 1, got that redone and that is all fine now. Thanks Mike for comfirming that for me. I also got the RIT/XIT working a wire was broken off the band swtich where the RIT wires are tied that goes to the VFO. The rig is like new again (Well alomst). Again Thaks
> 73
> Roland AH6RR
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > That's good to know.
> >
> > The driver tube receives it plate voltage directly from the IF UNIT's plug 4 pin 1 "300A" connection.
> >
> > As I stated before, if the driver tube plate voltage is intermittent the driver tube's RF output will also be intermittent which will lead to an erratic ALC meter indication in TUNE, USB, and LSB modes. ALC is not used nor will there be an ALC indication in CW-W or CW-N mode regardless of the RF output and where you set the CAR Control.
> >
> > Once you fix the IF UNIT's plug 4 pin 1 intermittent connection that is causing the intermittent driver tube plate voltage, the ALC meter indication and RF output should settle down and operate normal. That assumes there are no other problems.
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> > 73's
> > Mike W5RKL
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> >
> > --- In TS-520_820_530_830@yahoogroups.com, "ah6rr1" <ah6rr@> wrote:
> > >
> > > Hello Mike,
> > > I forgot to say what 300A it is the one on the IF board I will pull the board and check ti pins for a bad solder joint since when I touch it it makes the ALC meter jump all over the place. after that I will check the plate voltage for the driver tube. Thanks for your input on this. Then I will tackle the RIT not working on this rig.
> > > 73

> > > Roland AH6RR
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > > >
> > > > Hello Roland,
> > > >
> > > > ALC is not produced in the driver tube or the RF UNIT. ALC is produced on the AF UNIT and only when the final tube grids are driven positive.
> > > >
> > > > What "300A" connection are you talking about, IF UNIT 300A or the RF UNIT 300A? I suspect you meant plug 7 pin 4 on the RF UNIT.
> > > >
> > > > Plug 7 pin 4 (300A) provides the driver tube plate voltage. If plug 7 is intermittent then the driver tube's plate voltage will also be intermittent resulting in intermittent RF output in transmit and, if the driver tube signal level is high enough to push the final tube grids positive, there will be intermittent ALC as well. Intermittent RF output from the driver tube due to intermittent plate voltage on the driver tube, the RF output of the 530 will also be intermittent.
> > > >
> > > > I recommend checking the driver tube's plate voltage, pin 7 on the driver tube socket.
> > > >
> > > > Connect a DC volt meter to plug 7 pin 4 on the RF UNIT. The voltage should be approximately 363VDC in receive and 320VDC in transmit.
> > > >
> > > > 73's
> > > > Mike W5RKL
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "ah6rr1" <ah6rr@> wrote:
> > > > >
> > > > > I have a 530 that has a problem with the ALC the meter wil jump around all over the place. I have replaced the driver tube with a new one and it was working fine. then all of a sudden no ALC control at all. I do notice when I move the 300A wire the meter will peg even with the Car control turned all the way down. Also I can not get the IP to change from 85-90mils in any mode. Does anyone have any suggestions?
> > > > > Thanks
> > > > > Roland AH6RR
> > > > >
> > > >
> > > >
> > >
> >
>

23162. RE: [TS-520_820_530_830] Re: TS-530S ALC Problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-29 20:49:31 UTC
From: Greg Anders
Topic: 23148 Message: 23162

Congratulations Roland,

You have graduated with a degree in Kenwood PWB manufacturing Quality Improvement. That connection was doomed to fail from the day it left the factory.

Reminds me of the Yaesu FT101E I had that would jump 8khz in cold weather. The radio was in my garage shack and it would fire up OK then jump 8khz after 5 minutes or so. An hour later when it was warmed up it would jump back 8khz and stay put.

I finally found the 9V regulated supply was jumping to over 10V. Why???

The regulator adjust pot was mounted on the pc board and soldered to the trace on the top of the board.

No solder on the bottom of the board and no plated thru hole. It was just pressed in there and totally intermittent. The factory did it....

Greg
KG6YV
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
Sent: Thursday, October 29, 2009 1:42 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS-530S ALC Problem

That's great Roland. Glad your 530's working now.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "ah6rr1" <ah6rr@...> wrote:
>
> Well that was the problem Mike it was a bad connection joint at plug 4 pin 1, got that redone and that is all fine now. Thanks Mike for comfirming that for me. I also got the RIT/XIT working a wire was broken off the band swtich where the RIT wires are tied that goes to the VFO. The rig is like new again (Well alomst). Again Thaks
> 73
> Roland AH6RR
> --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "w5rkl" <w5rkl@> wrote:
> >
> > That's good to know.
> >
> > The driver tube receives it plate voltage directly from the IF UNIT's plug 4 pin 1 "300A" connection.
> >

> > As I stated before, if the driver tube plate voltage is intermittent the driver tube's RF output will also be intermittent which will lead to an erratic ALC meter indication in TUNE, USB, and LSB modes. ALC is not used nor will there be an ALC indication in CW-W or CW-N mode regardless of the RF output and where you set the CAR Control.
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> > Once you fix the IF UNIT's plug 4 pin 1 intermittent connection that is causing the intermittent driver tube plate voltage, the ALC meter indication and RF output should settle down and operate normal. That assumes there are no other problems.
> >
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> > 73's
> > Mike W5RKL
> >
> >
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "ah6rr1" <ah6rr@> wrote:
> > >
> > > Hello Mike,
> > > I forgot to say what 300A it is the one on the IF board I will pull the board and check ti pins for a bad solder joint since when I touch it it makes the ALC meter jump all over the place. after that I will check the plate voltage for the driver tube. Thanks for your input on this. Then I will tackle the RIT not working on this rig.
> > > 73
> > > Roland AH6RR
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "w5rkl" <w5rkl@> wrote:
> > > >
> > > > Hello Roland,
> > > >
> > > > ALC is not produced in the driver tube or the RF UNIT. ALC is produced on the AF UNIT and only when the final tube grids are driven positive.
> > > >
> > > > What "300A" connection are you talking about, IF UNIT 300A or the RF UNIT 300A? I suspect you meant plug 7 pin 4 on the RF UNIT.
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> > > > Plug 7 pin 4 (300A) provides the driver tube plate voltage. If plug 7 is intermittent then the driver tube's plate voltage will also be intermittent resulting in intermittent RF output in transmit and, if the driver tube signal level is high enough to push the final tube grids positive, there will be intermittent ALC as well. Intermittent RF output from the driver tube due to intermittent plate voltage on the driver tube, the RF output of the 530 will also be intermittent.
> > > >
> > > > I recommend checking the driver tube's plate voltage, pin 7 on the driver tube socket.

> > > >
> > > > Connect a DC volt meter to plug 7 pin 4 on the RF UNIT. The voltage should be approximately 363VDC in receive and 320VDC in transmit.
> > > >
> > > > 73's
> > > > Mike W5RKL
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "ah6rr1" <ah6rr@> wrote:
> > > > >
> > > > > I have a 530 that has a problem with the ALC the meter wil jump around all over the place. I have replaced the driver tube with a new one and it was working fine. then all of a sudden no ALC control at all. I do notice when I move the 300A wire the meter will peg even with the Car control turned all the way down. Also I can not get the IP to change from 85-90mils in any mode. Does anyone have any suggestions?
> > > > > Thanks
> > > > > Roland AH6RR
> > > > >
> > > >
> > > >
> > >
> >

[Non-text portions of this message have been removed]

23163. Can anyone here repair a DG-5 Display?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-30 12:02:46 UTC
From: ralph gee
Topic: 23163 Message: 23163

Well, I purchased a DG-5 Display from eBay and I got burnt. The unit doesn't work. Is there someone in the group that can take a look at this and see how much MORE it will cost me to get this operational? Or, point me in a direction?

Thanks in advance.

Best 73,
Ralph
K3FXR

[Non-text portions of this message have been removed]

23164. RE: [TS-520_820_530_830] Can anyone here repair a DG-5 Display?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-30 14:29:14 UTC
From: brad
Topic: 23163 Message: 23164

Can you tell me off hand what it is and I am sure I can help you out with it. Tell me what it does not do. Brad

---

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of ralph gee
Sent: Friday, October 30, 2009 08:03
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Can anyone here repair a DG-5 Display?

Well, I purchased a DG-5 Display from eBay and I got burnt. The unit doesn't work. Is there someone in the group that can take a look at this and see how much MORE it will cost me to get this operational? Or, point me in a direction?

Thanks in advance.

Best 73,
Ralph
K3FXR

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23165. RE: [TS-520_820_530_830] Can anyone here repair a DG-5 Display?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-30 14:31:44 UTC
From: brad
Topic: 23163 Message: 23165

Never mind, I know what it is. Tell me what it is not doing please. In the meantime, take a look at this website.

http://www.kb2ljj.com/data/kenwood/DG-5.htm

Brad Kb2chy

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of ralph gee
Sent: Friday, October 30, 2009 08:03
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Can anyone here repair a DG-5 Display?

Well, I purchased a DG-5 Display from eBay and I got burnt. The unit doesn't work. Is there someone in the group that can take a look at this and see how much MORE it will cost me to get this operational? Or, point me in a direction?

Thanks in advance.

Best 73,
Ralph
K3FXR

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23166. Re: Can anyone here repair a DG-5 Display?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-30 17:39:35 UTC
From: scott10k
Topic: 23163 Message: 23166

I concur with Brad to look at the website or go to Mods.dk under Kenwood-DG-5. Tell me what it is doing or not doing. I repaired my DG-5 which only displayed dots.
73s, Scott, N6CIC

--- In TS-520_820_530_830@...m, "brad" <kb2chy@...> wrote:
>
> Never mind, I know what it is. Tell me what it is not doing please. In the
> meantime, take a look at this website.
>
>
>
> http://www.kb2ljj.com/data/kenwood/DG-5.htm
>
>
>
> Brad Kb2chy
>
>
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of ralph gee
> Sent: Friday, October 30, 2009 08:03
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Can anyone here repair a DG-5 Display?
>
>
>
>
>
>
> Well, I purchased a DG-5 Display from eBay and I got burnt. The unit doesn't
> work. Is there someone in the group that can take a look at this and see how
> much MORE it will cost me to get this operational? Or, point me in a
> direction?
>
> Thanks in advance.
>
> Best 73,
> Ralph
> K3FXR
>
> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
>

23167. Re: [TS-520_820_530_830] Re: Can anyone here repair a DG-5 Display?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-30 17:56:20 UTC
From: ralph gee
Topic: 23163 Message: 23167

THANK YOU ALL FOR YOUR HELP WITH THIS ISSUE.

Here's what's going on...

I plugged everything in and the display barely lit up. When It didn't work, I swapped out the RCA cables. When that didn't work, I tested the voltage coming out of my radio...14v,so good. Tested power cable..good. Connected counter to an astron power supply for alternate power source and it still lit up very very dim...you had to turn the room lights off to see a glimpse of it.
Also, from what I could see of the counter, it looked like it was throwing out random numbers.

When I get home tonight, I will print out the info on the web site and pull the cover to do a visual inspection. I hope it's something that can be remedied.

Thanks again in advance.
 Best 73,
Ralph
K3FXR

From: scott10k <scottandalene@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Fri, October 30, 2009 1:39:35 PM
Subject: [TS-520_820_530_830] Re: Can anyone here repair a DG-5 Display?

I concur with Brad to look at the website or go to Mods.dk under Kenwood-DG-5. Tell me what it is doing or not doing. I repaired my DG-5 which only displayed dots.
73s, Scott, N6CIC

--- In TS-520_820_530_ 830@yahoogroups. com, "brad" <kb2chy@...> wrote:
>
> Never mind, I know what it is. Tell me what it is not doing please. In the
> meantime, take a look at this website.
>
>
>
> http://www.kb2ljj. com/data/ kenwood/DG- 5.htm
>
>
>
> Brad Kb2chy
>
>
>
> -----
>

> From: TS-520_820_530_ 830@yahoogroups. com
> [mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of ralph gee
> Sent: Friday, October 30, 2009 08:03
> To: TS-520_820_530_ 830@yahoogroups. com
> Subject: [TS-520_820_ 530_830] Can anyone here repair a DG-5 Display?
>
>
>
>
>
> Well, I purchased a DG-5 Display from eBay and I got burnt. The unit doesn't
> work. Is there someone in the group that can take a look at this and see how
> much MORE it will cost me to get this operational? Or, point me in a
> direction?
>
> Thanks in advance.
>
> Best 73,
> Ralph
> K3FXR
>
> [Non-text portions of this message have been removed]
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23168. Kenwood Part number

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-30 18:36:29 UTC
From: n6wk_skcc3
Topic: 23168 Message: 23168

I am in search of a part. Kenwood part number V30-1081-06
It has a number on it of TMC1000 and is a Micro processor unit for the digital display on a TS-180S It is a 42 pin IC
Any of you part GURUs have any suggestions for locating this little guy?

Thanks,
Gordon

23169. Re: Hybird 520s MOD

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-30 18:40:14 UTC
From: David
Topic: 23152 Message: 23169

Karl.
You could always send it to me. ill put it on 11 meter for you.
my 11 meter bench that is.hihi
Why would any one want to put a perfectly nice radio on the CB band? really defeats the reasoning to holding a amateur radio licence. don't you think.
Dont do it Karl, as said by meany, if you want 11 meters go to the truck stop and buy one.
Dave kg4uxr

--- In TS-520_820_530_830@yahoogroups.com, "Karl" <kb1nzq@...> wrote:
>
>
> What is the best way to get the 520s to cover 11 meters? will the ext Vfo cover that range with out touching the insides of the 520? thanks for any help
>

23170. Re: Can anyone here repair a DG-5 Display?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-30 18:49:45 UTC
From: David
Topic: 23163 Message: 23170

Ralph.
If you bought it off the EBay. and it's description doesn't match what you have. i would file a complaint with them and Pay pal. Have u contacted the seller? did you notify eBay and pay pal. did you post a strong negative against the seller.
I have been in the same boat, with a linear amp. how ever the seller did reimburse me with part of the selling cost. after all he described it as not DOA and it was.
Hope you get it fixed.
Dave kg4uxr.

--- In TS-520_820_530_830@yahoogroups.com, ralph gee <paharleyguy2001@...> wrote:
>
> Well, I purchased a DG-5 Display from eBay and I got burnt. The unit doesn't work. Is there someone in the group that can take a look at this and see how much MORE it will cost me to get this operational? Or, point me in a direction?
>
> Thanks in advance.
>
> Best 73,
> Ralph
> K3FXR
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

23171. Re: Kenwood Part number

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-30 18:53:47 UTC
From: ah6rr1
Topic: 23168 Message: 23171

Hello Gordon,
You might want to email Clif at Avvid.com and see if he knows a supplier for that part. If he cant find one they cant be found.
Roland AH6RR

--- In TS-520_820_530_830@yahoogroups.com, "n6wk_skcc3" <n6wk@...> wrote:
>
> I am in search of a part. Kenwood part number V30-1081-06
> It has a number on it of TMC1000 and is a Micro processor unit for the digital display on a TS-180S It is a 42 pin IC
> Any of you part GURUs have any suggestions for locating this little guy?
>
> Thanks,
> Gordon
>

23172. RE: [TS-520_820_530_830] Re: Kenwood Part number

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-30 18:56:26 UTC
From: Greg Anders
Topic: 23168 Message: 23172

Well,

TMC is definitely a chip manufacturer I think they are TSMC now days.

Greg

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of ah6rr1
Sent: Friday, October 30, 2009 11:54 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: Kenwood Part number

Hello Gordon,
You might want to email Clif at Avvid.com and see if he knows a supplier for that part. If he cant find one they cant be found.
Roland AH6RR

--- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "n6wk_skcc3" <n6wk@...> wrote:
>
> I am in search of a part. Kenwood part number V30-1081-06
> It has a number on it of TMC1000 and is a Micro processor unit for the digital display on a TS-180S It is a 42 pin IC
> Any of you part GURUs have any suggestions for locating this little guy?
>
> Thanks,
> Gordon
>

[Non-text portions of this message have been removed]

23173. Re: [TS-520_820_530_830] Re: Can anyone here repair a DG-5 Display?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-30 19:01:13 UTC
From: ralph gee
Topic: 23163 Message: 23173

Dave, unfortunately, this is the second time I was burnt on ebay...and my LAST!
I'm through with ebay, unless it's local and I can see it operate in person.

Best 73,
Ralph
K3FXR

From: David <sootydave@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Fri, October 30, 2009 2:49:45 PM
Subject: [TS-520_820_530_830] Re: Can anyone here repair a DG-5 Display?

Ralph.
If you bought it off the EBay. and it's description doesn't match what you have. i would file a complaint with them and Pay pal. Have u contacted the seller? did you notify eBay and pay pal. did you post a strong negative against the seller.
I have been in the same boat, with a linear amp. how ever the seller did reimburse me with part of the selling cost. after all he described it as not DOA and it was.
Hope you get it fixed.
Dave kg4uxr.

--- In TS-520_820_530_ 830@yahoogroups. com, ralph gee <paharleyguy2001@ ...> wrote:
>
> Well, I purchased a DG-5 Display from eBay and I got burnt. The unit doesn't work. Is there someone in the group that can take a look at this and see how much MORE it will cost me to get this operational? Or, point me in a direction?
>
> Thanks in advance.
>
> Best 73,
> Ralph
> K3FXR
>
>
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> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

23174. Re: [TS-520_820_530_830] Re: Can anyone here repair a DG-5 Display?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-30 19:22:36 UTC
From: Charles Rodecap
Topic: 23163 Message: 23174

Ralph

I was told by several old time techs and auto repair people...
"anything can be fixed IF you have enough money to throw at it."

Charlie
KA9HDG

Tempo 2020 (2)
Drake TR-4/RV-4, TR-3
Ranger AR-3500
My list shows I've thrown some money out too.

--- On Fri, 10/30/09, ralph gee <paharleyguy2001@...> wrote:

From: ralph gee <paharleyguy2001@...>
Subject: Re: [TS-520_820_530_830] Re: Can anyone here repair a DG-5 Display?
To: TS-520_820_530_830@yahoogroups.com
Date: Friday, October 30, 2009, 3:01 PM

Dave, unfortunately, this is the second time I was burnt on ebay...and my LAST!
I'm through with ebay, unless it' s local and I can see it operate in person.

Best 73,
Ralph
K3FXR

---------- --------- --------- --
From: David <sootydave@yahoo. com>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Fri, October 30, 2009 2:49:45 PM
Subject: [TS-520_820_ 530_830] Re: Can anyone here repair a DG-5 Display?

Ralph.
If you bought it off the EBay. and it's description doesn't match what you have. i would file a complaint with them and Pay pal. Have u contacted the seller? did you notify eBay and pay pal. did you post a strong negative against the seller.
I have been in the same boat, with a linear amp. how ever the seller did reimburse me with part of the selling cost. after all he described it as not DOA and it was.
Hope you get it fixed.
Dave kg4uxr.

--- In TS-520_820_530_ 830@yahoogroups. com, ralph gee <paharleyguy2001@ ...> wrote:
>
> Well, I purchased a DG-5 Display from eBay and I got burnt. The unit doesn't work. Is there someone in the group that can take a look at this and see how much MORE it will cost me to get this operational? Or, point me in a direction?

>
> Thanks in advance.
>
> Best 73,
> Ralph
> K3FXR
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> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23175. TS-530 Cathode resistors on Eham Elmer forum

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-30 22:38:30 UTC
From: james27613
Topic: 23175 Message: 23175

Hi,

Interesting thread on eham elmers forum on the
cathode resistors in the ts-530.

http://www.eham.net/forums/Elmers/236373?page=1

73 james ke4drn

23176. new 6146 tubes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-30 23:40:19 UTC
From: gazza2p
Topic: 23176 Message: 23176

has anybody replaced the 6146B tubes with the 6146W tubes.
I see there is a web site in the USA selling matched pairs of 6146W tubes for $39 US.
I have a TS-530S and would like to use the 6146W tubes if they are suitable.

23177. Re: [TS-520_820_530_830] new 6146 tubes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-31 00:09:14 UTC
From: Charlie , W5COV
Topic: 23176 Message: 23177

I was just getting ready to type an almost identical email when the last one came in .

I am now ready to order a driver and finals for my TS-830S , and would like the experts opinion on what brand to buy and where to buy them from .

Thank you ,

Charlie , W5COV

[Non-text portions of this message have been removed]

23178. Kenwood 520/820 External VFO cables

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-31 00:09:05 UTC
From: n6wk_skcc3
Topic: 23178 Message: 23178

I still have some of the VFO cables for the Kenwood 520/820 Radios.
These cables are 30 inches long and fully shielded.
Cost is $25.00 each plus shipping via Priority Mail.
I also have the 9 Pin shorting plugs available for $8.50 each plus shipping.
Please contact me off list at n6wk@...
These appear to be very hard to find items.
The Cable can be seen here
http://www.n6wk.com/kenwood/520-820%20VFO%20cable.jpg

thanks,
Gordon
N6WK

23179. Re: [TS-520_820_530_830] new 6146 tubes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-31 00:33:20 UTC
From: Gmail - Kevin, Natalia, Stacey & Rochelle
Topic: 23176 Message: 23179

Yes you can, the "W" can handle a bit of rough operation.
I understand the "W" is rugidised (sorry for the spelling)

Kevin. ZL1KFM.
----- Original Message -----
From: gazza2p
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 31, 2009 12:40 PM
Subject: [TS-520_820_530_830] new 6146 tubes

has anybody replaced the 6146B tubes with the 6146W tubes.
I see there is a web site in the USA selling matched pairs of 6146W tubes for $39 US.
I have a TS-530S and would like to use the 6146W tubes if they are suitable.

[Non-text portions of this message have been removed]

23180. Re: new 6146 tubes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-31 01:17:08 UTC
From: james27613
Topic: 23176 Message: 23180

Hi,

I have used the 6146W and they work great,
be sure to neutralize the tubes before you
start transmitting. I got a few sets from
http://www.surplussales.com/tubes-sock-acc/TubeSpecials.html
new JAN circa 1985

the driver should not be changed unless it
is starting to go bad. don't toss the driver,
it may work fine in another radio.

in the files section of this group look for
Neutralization Procedure

** high voltage ** caution

(don't want to be a wise guy)

73 james ke4drn

23181. HV Cap Digikey P7453-ND now discontinued by Panasonic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-31 01:23:36 UTC
From: james27613
Topic: 23181 Message: 23181

hi,

received email from digikey that panasonic is
discontinuing the P7453-ND 150uf 500v
electrolytic capacitors many of us have
used to replace the old caps.

this model was 35mm x 25mm same dia. as originals.

73 james ke4drn

23182. Re: [TS-520_820_530_830] Kenwood 520/820 External VFO cables

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-31 01:26:24 UTC
From: Bill Linn
Topic: 23178 Message: 23182

Hi Gordon, do you happen to have a cable for the VFO 230 for an 830?

Thanks, Bill - W7WEL

23183. Re: [TS-520_820_530_830] TS-530 Cathode resistors on Eham Elmer forum

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-31 09:10:11 UTC
From: Gordon JC Pearce
Topic: 23175 Message: 23183

On Fri, 2009-10-30 at 22:38 +0000, james27613 wrote:
> Hi,
>
> Interesting thread on eham elmers forum on the
> cathode resistors in the ts-530.
>
> http://www.eham.net/forums/Elmers/236373?page=1
>

Aye, it takes all sorts ;-)

FWIW the cathode resistors are so heavily decoupled that there isn't even a sniff of RF across them (and barely any AF). I fitted a couple of 5W wirewounds when the carbon comp resistors went phut in my TS-520 simply because it was what I had available (not driving a 500-mile round trip to the nearest electronics store) and it worked perfectly well - but I'm very very careful with it, as you should be with any slightly bodged repair. When I finally get the shack set up at the new place I'm going to get a couple of metal film resistors to replace it. Yes, there is a helical etch in the film to set the resistance so in theory they are inductive, but it's in the order of picoHenries.

If they had been intended as fuses then I suspect they would have been something like 2.5W "spring link" wirewounds, the ones with the bit of wire bent back and soldered on. These were extremely common in consumer equipment like TV sets at the time, and provided a crude thermal trip. In the event of overcurrent they'd heat up and melt the solder. Quite often they were made with special low melting point solder (not sure what the composition was) to spring a bit earlier. The resulting blob of solder hurled across the PCB would then contribute some other interesting faults!

Gordon MA0YEQ

23184. Re: [TS-520_820_530_830] Re: Can anyone here repair a DG-5 Display?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-31 09:11:43 UTC
From: Gordon JC Pearce
Topic: 23163 Message: 23184

On Fri, 2009-10-30 at 12:01 -0700, ralph gee wrote:
> Dave, unfortunately, this is the second time I was burnt on ebay...and my LAST!
> I'm through with ebay, unless it's local and I can see it operate in person.

If it's high-value stuff I only ever collect and pay in person. I appreciate that this may be rather more difficult to do in the US than the UK - as someone said to me at a computer thing recently, "You live closer to Turkey than I do to San Francisco..."

Gordon MA0YEQ

23185. Re: [TS-520_820_530_830] Re: Can anyone here repair a DG-5 Display?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-31 11:50:48 UTC
From: ralph gee
Topic: 23163 Message: 23185

Hello All,
Update: Last night I pulled the cover off the counter and found a lot of dust. I hit it with canned air and powered it up. Didn't take long to find the bad solder joint and the display came to life. brought it into the shack and hooked it up to the rig and the display is not even close to the frequency that is on the rig. The only band that is close is 20 meters. Here's what I have:

RADIO DISPLAY
3.850.0 13.875.0
7.180.0 17.180.0 IN COUNTER MODE IT READS: 10.050.0 INSTEAD OF: 10.000.0
14.220.0 14.250.0
21.400.0 11.450.0
28.000.0 38.055.0 ALSO, THE DISPLAY IS SOMETIMES JUMPY, SHOWING ODD FREQUENCIES
29.100.0 39.100.0 I CLEANED THE RCA SLOTS AND CHECKED FOR GOOD CONNECTIONS

I looked in other places to see if there were any more bad solder points, but no luck. I am officially in over my head.
It looks like now I need someone's knowledge in, I assume, aligning the unit?? Or, perhaps, a more detailed eye in finding more bad solder joints that I cannot see.

So, it's back to being a paperweight. It needs help.

Best 73,
Ralph
K3FXR

[Non-text portions of this message have been removed]

23186. Re: HV Cap Digikey P7453-ND now discontinued by Panasonic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-31 13:14:42 UTC
From: w5rkl
Topic: 23181 Message: 23186

Mouser sells the same capacitor:

150ufd 500VDC (snap in)
Mouser P/N: 598-80LX151M500A012
Manufacture P/N: 380LX151M500A012
Price: $6.30
Qty in stock: 31
Manufacture: Cornell Dubilier "CDE")
Case Dimensions (A01): 35mm x 25mm (D / L)

Notice the Qty in stock, only 31.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "james27613" <james27613@...> wrote:
>
> hi,
>
> received email from digikey that panasonic is
> discontinuing the P7453-ND 150uf 500v
> electrolytic capacitors many of us have
> used to replace the old caps.
>
> this model was 35mm x 25mm same dia. as originals.
>
> 73 james ke4drn
>

23187. Re: Can anyone here repair a DG-5 Display?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-31 13:28:34 UTC
From: w5rkl
Topic: 23163 Message: 23187

My initial thought is the DG-5's reference oscillator is off frequency. See the DG-5 operator's manual, page 11, for details on calibrating the DG-5's reference oscillator.

If you do not have the DG-5's operator's and/or service manual(s), download them from Gordon, N6WK's website:

http://www.n6wk.com/kenwood/

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, ralph gee <paharleyguy2001@...> wrote:
>
> Hello All,
> Update: Last night I pulled the cover off the counter and found a lot of dust. I hit it with canned air and powered it up. Didn't take long to find the bad solder joint and the display came to life. brought it into the shack and hooked it up to the rig and the display is not even close to the frequency that is on the rig. The only band that is close is 20 meters. Here's what I have:
>
> RADIO DISPLAY
> 3.850.0 13.875.0
> 7.180.0 17.180.0 IN COUNTER MODE IT READS: 10.050.0 INSTEAD OF: 10.000.0
> 14.220.0 14.250.0
> 21.400.0 11.450.0
> 28.000.0 38.055.0 ALSO, THE DISPLAY IS SOMETIMES JUMPY, SHOWING ODD FREQUENCIES
> 29.100.0 39.100.0 I CLEANED THE RCA SLOTS AND CHECKED FOR GOOD CONNECTIONS
>
> I looked in other places to see if there were any more bad solder points, but no luck. I am officially in over my head.
> It looks like now I need someone's knowledge in, I assume, aligning the unit?? Or, perhaps, a more detailed eye in finding more bad solder joints that I cannot see.
>
> So, it's back to being a paperweight. It needs help.
>
>
>
> Best 73,
> Ralph
> K3FXR
>
>
>
>
> [Non-text portions of this message have been removed]
>

23188. Re: [TS-520_820_530_830] Re: Can anyone here repair a DG-5 Display?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-31 13:36:21 UTC
From: ralph gee
Topic: 23163 Message: 23188

I have the manuals. . . Here goes nothing!

Best 73,
Ralph
K3FXR

From: w5rkl <w5rkl@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sat, October 31, 2009 9:28:34 AM
Subject: [TS-520_820_530_830] Re: Can anyone here repair a DG-5 Display?

My initial thought is the DG-5's reference oscillator is off frequency. See the DG-5 operator's manual, page 11, for details on calibrating the DG-5's reference oscillator.

If you do not have the DG-5's operator's and/or service manual(s), download them from Gordon, N6WK's website:

http://www.n6wk. com/kenwood/

73's
Mike W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, ralph gee <paharleyguy2001@ ...> wrote:
>
> Hello All,
> Update: Last night I pulled the cover off the counter and found a lot of dust. I hit it with canned air and powered it up. Didn't take long to find the bad solder joint and the display came to life. brought it into the shack and hooked it up to the rig and the display is not even close to the frequency that is on the rig. The only band that is close is 20 meters. Here's what I have:
>
> RADIO DISPLAY
> 3.850.0 13.875.0
> 7.180.0 17.180.0 IN COUNTER MODE IT READS: 10.050.0 INSTEAD OF: 10.000.0
> 14.220.0 14.250.0
> 21.400.0 11.450.0
> 28.000.0 38.055.0 ALSO, THE DISPLAY IS SOMETIMES JUMPY, SHOWING ODD FREQUENCIES
> 29.100.0 39.100.0 I CLEANED THE RCA SLOTS AND CHECKED FOR GOOD CONNECTIONS
>
> I looked in other places to see if there were any more bad solder points, but no luck. I am officially in over my head.
> It looks like now I need someone's knowledge in, I assume, aligning the unit?? Or, perhaps, a more detailed eye in finding more bad solder joints that I cannot see.
>
> So, it's back to being a paperweight. It needs help.
>

>
>
> Best 73,
> Ralph
> K3FXR
>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

23189. Re: [TS-520_820_530_830] TS-530 Cathode resistors on Eham Elmer forum

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-31 16:06:40 UTC
From: Chris and Alex
Topic: 23175 Message: 23189

I feel quite drained now after reading that on the Eham forum. lol

I didn't think the resistors were sized to protect the tubes, the maths shows that that does'nt work, but if the tubes fail short circuit as they can, the resistors will fail and save the transformer. Unless I missed it no one seems to have mentioned that.

73 Chris SV0XBQ/9

2009/10/31 james27613 <james27613@...>

>
>
> Hi,
>
> Interesting thread on eham elmers forum on the
> cathode resistors in the ts-530.
>
> http://www.eham.net/forums/Elmers/236373?page=1
>
> 73 james ke4drn
>
>
>

[Non-text portions of this message have been removed]

23190. Re: [TS-520_820_530_830] new 6146 tubes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-31 16:19:48 UTC
From: Chris and Alex
Topic: 23176 Message: 23190

Hi,
Check out the 6146 family of tubes document in the files section. It seems
that not all 6146W tubes are the same. Depending on the date of manufacture
they can be A's or B's.

Chris SV0XBQ/9

2009/10/31 Gmail - Kevin, Natalia, Stacey & Rochelle <sparcnz@...>

>
>
> Yes you can, the "W" can handle a bit of rough operation.
> I understand the "W" is rugidised (sorry for the spelling)
>
> Kevin. ZL1KFM.
>
> ----- Original Message -----
> From: gazza2p
> To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> Sent: Saturday, October 31, 2009 12:40 PM
> Subject: [TS-520_820_530_830] new 6146 tubes
>
> has anybody replaced the 6146B tubes with the 6146W tubes.
> I see there is a web site in the USA selling matched pairs of 6146W tubes
> for $39 US.
> I have a TS-530S and would like to use the 6146W tubes if they are
> suitable.
>
> [Non-text portions of this message have been removed]
>
>
>

[Non-text portions of this message have been removed]

23191. Re: new 6146 tubes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-31 10:27:02 UTC
From: gazza2p
Topic: 23176 Message: 23191

--- In TS-520_820_530_830@yahoogroups.com, "james27613" <james27613@...> wrote:
>
> Hi,
>
> I have used the 6146W and they work great,
> be sure to neutralize the tubes before you
> start transmitting. I got a few sets from
> http://www.surplussales.com/tubes-sock-acc/TubeSpecials.html
> new JAN circa 1985
>
> the driver should not be changed unless it
> is starting to go bad. don't toss the driver,
> it may work fine in another radio.
>
> in the files section of this group look for
> Neutralization Procedure
>
> ** high voltage ** caution
>
> (don't want to be a wise guy)
>
> 73 james ke4drn
>
James KE4DRN, thanks for the reply. I will look at ordering some 'W' tubes.

23192. RM: [TS-520_820_530_830] Re: Can anyone here repair a DG-5 Display?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-31 12:49:07 UTC
From: Senior Citizen
Topic: 23163 Message: 23192

Hi
Hope these might be of help.....

_____
From: ralph gee <paharleyguy2001@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sat, October 31, 2009 7:50:48 AM
Subject: Re: [TS-520_820_530_830] Re: Can anyone here repair a DG-5 Display?

Hello All,
Update: Last night I pulled the cover off the counter and found a lot of dust. I hit it with canned air and powered it up. Didn't take long to find the bad solder joint and the display came to life. brought it into the shack and hooked it up to the rig and the display is not even close to the frequency that is on the rig. The only band that is close is 20 meters. Here's what I have:

RADIO DISPLAY
3.850.0 13.875.0
7.180.0 17.180.0 IN COUNTER MODE IT READS: 10.050.0 INSTEAD OF: 10.000.0
14.220.0 14.250.0
21.400.0 11.450.0
28.000.0 38.055.0 ALSO, THE DISPLAY IS SOMETIMES JUMPY, SHOWING ODD FREQUENCIES
29.100.0 39.100.0 I CLEANED THE RCA SLOTS AND CHECKED FOR GOOD CONNECTIONS

I looked in other places to see if there were any more bad solder points, but no luck. I am officially in over my head.
It looks like now I need someone's knowledge in, I assume, aligning the unit?? Or, perhaps, a more detailed eye in finding more bad solder joints that I cannot see.

So, it's back to being a paperweight. It needs help.

Best 73,
Ralph
K3FXR

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[Non-text portions of this message have been removed]

23193. TS 820 driver tube replacement

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-31 16:58:57 UTC
From: wrench101
Topic: 23193 Message: 23193

Ok, I'm not an expert, but I'm trying to replace my driver tube and it will not completely come out of its socket. Am I missing something? Tnx AI4NV.
ps. thanks to this group, my display is working fine now. was a bad connection in the connectors connecting both boards together. Thanks group!

23194. Re: [TS-520_820_530_830] TS 820 driver tube replacement

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-31 17:11:59 UTC
From: Chris and Alex
Topic: 23193 Message: 23194

Hi,

This may be your problem. There a metal sleeve over the tube and this traps a metal strap against the glass envelope of the tube. The other end end of the strap terminates on the pcb. You need to remove the metal sleeve from the tube before removing the tube otherwise you're pulling on the metal strap.

Chris SV0XBQ/9

2009/10/31 wrench101 <wrench101@...>

>
>
> Ok, I'm not an expert, but I'm trying to replace my driver tube and it will
> not completely come out of its socket. Am I missing something? Tnx AI4NV.
> ps. thanks to this group, my display is working fine now. was a bad
> connection in the connectors connecting both boards together. Thanks group!
>
>
>

[Non-text portions of this message have been removed]

23195. Re: TS 820 driver tube replacement

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-31 17:20:03 UTC
From: wrench101
Topic: 23193 Message: 23195

Saved again! It took a litte bit of careful maneuvering, but it's out. Many thanks! 73 de AI4NV

23196. RE: [TS-520_820_530_830] TS-530 Cathode resistors on Eham Elmer forum

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-31 18:54:44 UTC
From: Dick Merryman
Topic: 23175 Message: 23196

The CAR pot on my TS-830S failed and I got max drive. The Ip meter pegged and before I could do anything, about 2 seconds, the panel lights dimmed and then the line fuse blew. After fixing the problem the Xcvr worked just fine, like nothing had ever happened. The cathode resistors remained at 5 ohms.

After that experience I don't worry too much about the power transformer; it is pretty rugged compared to the line fuse.

-Dick-
N3XRU

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Chris and Alex
Sent: Saturday, October 31, 2009 9:07 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS-530 Cathode resistors on Eham Elmer forum

I feel quite drained now after reading that on the Eham forum. lol

I didn't think the resistors were sized to protect the tubes, the maths shows that that does'nt work, but if the tubes fail short circuit as they can, the resistors will fail and save the transformer. Unless I missed it no one seems to have mentioned that.

73 Chris SV0XBQ/9

2009/10/31 james27613 <james27613@bellsout
<mailto:james27613%40bellsouth.net> h.net>

>
>
> Hi,
>
> Interesting thread on eham elmers forum on the
> cathode resistors in the ts-530.
>
> http://www.eham. <http://www.eham.net/forums/Elmers/236373?page=1>
net/forums/Elmers/236373?page=1
>
> 73 james ke4drn
>
>

>

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[Non-text portions of this message have been removed]

23197. Re: Kenwood Part number

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-31 19:41:02 UTC
From: mjsyn
Topic: 23168 Message: 23197

Hello Gordon & All,

Partstore.com shows it in stock w/ a ship time of 4 to 6 days @ 51.95. I have had good success w/ parts from them using Kenwood's original part #'s.

I hope this helps.

Vy 73 de K8SYN (Mike)

--- In TS-520_820_530_830@yahoogroups.com, Greg Anders <greg.anders@...> wrote:
>
> Well,
>
> TMC is definitely a chip manufacturer I think they are TSMC now days.
>
> Greg
>
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of ah6rr1
> Sent: Friday, October 30, 2009 11:54 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: Kenwood Part number
>
>
>
> Hello Gordon,
> You might want to email Clif at Avvid.com and see if he knows a supplier for that part. If he cant find one they cant be found.
> Roland AH6RR
>
> --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "n6wk_skcc3" <n6wk@> wrote:
> >
> > I am in search of a part. Kenwood part number V30-1081-06
> > It has a number on it of TMC1000 and is a Micro processor unit for the digital display on a TS-180S It is a 42 pin IC
> > Any of you part GURUs have any suggestions for locating this little guy?
> >
> > Thanks,
> > Gordon
> >
>
>
>
> [Non-text portions of this message have been removed]
>

23198. Re: [TS-520_820_530_830] Re: Kenwood Part number

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-10-31 19:50:35 UTC
From: n6wk@n6wk.com
Topic: 23168 Message: 23198

Thanks for the tip Mike.
I appreciate it.
73,
Gordon

mjsyn wrote:
>
>
> Hello Gordon & All,
>
> Partstore.com shows it in stock w/ a ship time of 4 to 6 days @ 51.95.
> I have had good success w/ parts from them using Kenwood's original
> part #'s.
>
> I hope this helps.
>
> Vy 73 de K8SYN (Mike)
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, Greg Anders
> <greg.anders@...> wrote:
> >
> > Well,
> >
> > TMC is definitely a chip manufacturer I think they are TSMC now days.
> >
> > Greg
> >
> > From: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> [mailto:TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of ah6rr1
> > Sent: Friday, October 30, 2009 11:54 AM
> > To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > Subject: [TS-520_820_530_830] Re: Kenwood Part number
> >
> >
> >
> > Hello Gordon,
> > You might want to email Clif at Avvid.com and see if he knows a
> supplier for that part. If he cant find one they cant be found.
> > Roland AH6RR
> >
> > --- In TS-520_820_530_830@yahoogroups.com

> <mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.com>,
> "n6wk_skcc3" <n6wk@> wrote:
> > >
> > > I am in search of a part. Kenwood part number V30-1081-06
> > > It has a number on it of TMC1000 and is a Micro processor unit for
> the digital display on a TS-180S It is a 42 pin IC
> > > Any of you part GURUs have any suggestions for locating this
> little guy?
> > >
> > > Thanks,
> > > Gordon
> > >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
> _

23199. Re: new 6146 tubes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-01 01:42:05 UTC
From: ki0gv
Topic: 23176 Message: 23199

On the 6146w tubes, How can you tell the date it was manufactured by looking at the tube. Is there a Date stamped on the tube?

--- In TS-520_820_530_830@yahoogroups.com, Chris and Alex <alexandchrisp@...> wrote:
>
> Hi,
> Check out the 6146 family of tubes document in the files section. It seems
> that not all 6146W tubes are the same. Depending on the date of manufacture
> they can be A's or B's.
>
> Chris SV0XBQ/9
>
>
>
> 2009/10/31 Gmail - Kevin, Natalia, Stacey & Rochelle <sparcnz@...>
>
> > >
> > > Yes you can, the "W" can handle a bit of rough operation.
> > > I understand the "W" is rugidised (sorry for the spelling)
> > >
> > > Kevin. ZL1KFM.
> > >
> > > ----- Original Message -----
> > > From: gazza2p
> > > To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> > > Sent: Saturday, October 31, 2009 12:40 PM
> > > Subject: [TS-520_820_530_830] new 6146 tubes
> > >
> > > has anybody replaced the 6146B tubes with the 6146W tubes.
> > > I see there is a web site in the USA selling matched pairs of 6146W tubes
> > > for $39 US.
> > > I have a TS-530S and would like to use the 6146W tubes if they are
> > > suitable.
> > >
> > > [Non-text portions of this message have been removed]
> > >
> > >
> > >
> >
> >
> > [Non-text portions of this message have been removed]
> >

23200. Re: RM: [TS-520_820_530_830] Re: Can anyone here repair a DG-5 Display?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-01 02:49:37 UTC
From: ralph gee
Topic: 23163 Message: 23200

I'd like to thank everyone for their help. I attempted to calibrate the counter and was not lucky... Their is something wrong that I cannot locate.
Thanks again for your help and attention.

Best 73,
Ralph
K3FXR

From: Senior Citizen <k4ifg@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sat, October 31, 2009 8:49:07 AM
Subject: RM: [TS-520_820_530_830] Re: Can anyone here repair a DG-5 Display?

Hi
Hope these might be of help.....

From: ralph gee <paharleyguy2001@ yahoo.com>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Sat, October 31, 2009 7:50:48 AM
Subject: Re: [TS-520_820_ 530_830] Re: Can anyone here repair a DG-5 Display?

Hello All,
Update: Last night I pulled the cover off the counter and found a lot of dust. I hit it with canned air and powered it up. Didn't take long to find the bad solder joint and the display came to life. brought it into the shack and hooked it up to the rig and the display is not even close to the frequency that is on the rig. The only band that is close is 20 meters. Here's what I have:

RADIO DISPLAY
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21.400.0 11.450.0
28.000.0 38.055.0 ALSO, THE DISPLAY IS SOMETIMES JUMPY, SHOWING ODD FREQUENCIES
29.100.0 39.100.0 I CLEANED THE RCA SLOTS AND CHECKED FOR GOOD CONNECTIONS

I looked in other places to see if there were any more bad solder points, but no luck. I am officially in over my head.
It looks like now I need someone's knowledge in, I assume, aligning the unit?? Or, perhaps, a more detailed eye in finding more bad solder joints that I cannot see.

So, it's back to being a paperweight. It needs help.

Best 73,
Ralph
K3FXR

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23201. Need some antenna help.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-01 03:09:31 UTC
From: ke5ofo
Topic: 23201 Message: 23201

I have recently moved into a new house and been given the blessing by my landlord to be able to put up a vertical antenna to use with my TS-520. I had been planing on building my own but have had some intresting changes in my work schedule and have decided to just buy a nice multi band vertical. So my question is witch commercial multi band ground mount vertical would be the best match with a TS-520. I am wanting to work 80-10 meters. I know the bandwidth of most of these on 75/80 is very narrow but that's ok as I will probably be on the higher bands more offen. I also know I will need a good ground radial system no matter witch antenna I end up with.

I have been looking at the Hustler btv series, Gap Challenger DX, hy-gain AV-18AVQII, and MFJ-1798. So far I think I am leaning twords the Hustler or the Hy-Gain. Most of the reviews of these I have found online are based off of using with a modern transistor final rig and not with the good ole tube finals of our beloved Kenwoods.

Any recomendations or advice would be appreacated.

Thanks
Kerry
KE5OFO - Weatherford OK.

23202. Re: [TS-520_820_530_830] Need some antenna help.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-01 03:17:10 UTC
From: Jim Stanicek
Topic: 23201 Message: 23202

Anything that will work with a solid state radio, will CERTAINLY work with a 520! The fact that a 520 will match a much wider impedance range than a solid state rig will, will even make it possible for you to work with a decent vertical antenna without resorting to an "antenna tuner" ! The Pi network tuning of the tube-type final will do the job for you, provided you do get a reasonable SWR on the antenna to start with!

If you wish to use phone more often, tune the lowest band toward 75. Likewise if you are more of a digital/CW guy, tune it to the lower portion of the band! A compromise can be made, but it will be a compromise, and you might end up with an external tuner, at least for 80-75.

Go with what seems the best for you, and don't worry about whether the radio will work with it. It certainly should !

73, Jim

----- Original Message -----
From: ke5ofo
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 31, 2009 11:09 PM
Subject: [TS-520_820_530_830] Need some antenna help.

I have recently moved into a new house and been given the blessing by my landlord to be able to put up a vertical antenna to use with my TS-520. I had been planing on building my own but have had some intresting changes in my work schedule and have decided to just buy a nice multi band vertical. So my question is witch commercial multi band ground mount vertical would be the best match with a TS-520. I am wanting to work 80-10 meters. I know the bandwidth of most of these on 75/80 is very narrow but that's ok as I will probably be on the higher bands more offen. I also know I will need a good ground radial system no matter witch antenna I end up with.

I have been looking at the Hustler btv series, Gap Challenger DX, hy-gain AV-18AVQII, and MFJ-1798. So far I think I am leaning twords the Hustler or the Hy-Gain. Most of the reviews of these I have found online are based off of using with a modern transistor final rig and not with the good ole tube finals of our beloved Kenwoods.

Any recomendations or advice would be appreacated.

Thanks
Kerry
KE5OFO - Weatherford OK.

[Non-text portions of this message have been removed]

23203. Re: [TS-520_820_530_830] Need some antenna help.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-01 03:23:49 UTC
From: Stephen Judd
Topic: 23201 Message: 23203

Look at Eham reveiws on vertical antennas that is very helpful people have placed honest opinions on all type of equipment you will be pleased at what you find good luck
 Stephen/KB7BGS

From: ke5ofo <ke5ofo@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sat, October 31, 2009 9:09:31 PM
Subject: [TS-520_820_530_830] Need some antenna help.

I have recently moved into a new house and been given the blessing by my landlord to be able to put up a vertical antenna to use with my TS-520. I had been planing on building my own but have had some intresting changes in my work schedule and have decided to just buy a nice multi band vertical. So my question is witch commercial multi band ground mount vertical would be the best match with a TS-520. I am wanting to work 80-10 meters. I know the bandwidth of most of these on 75/80 is very narrow but that's ok as I will probably be on the higher bands more offen. I also know I will need a good ground radial system no matter witch antenna I end up with.

I have been looking at the Hustler btv series, Gap Challenger DX, hy-gain AV-18AVQII, and MFJ-1798. So far I think I am leaning twords the Hustler or the Hy-Gain. Most of the reviews of these I have found online are based off of using with a modern transistor final rig and not with the good ole tube finals of our beloved Kenwoods.

Any recomendations or advice would be appreacated.

Thanks
Kerry
KE5OFO - Weatherford OK.

[Non-text portions of this message have been removed]

23204. Re: [TS-520_820_530_830] Need some antenna help.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-01 03:28:12 UTC
From: MICHAEL SOUHRADA
Topic: 23201 Message: 23204

kERRY
I noticed your statement that ground radials would be required-
that's not quite true.
When I had (and sill do) a problem with my tower mounted beams
I picked up a Cushcraft R7 that covers all bands 40-10. No radials.
Got me back on the air but I did miss 80 so I did two things got a used
18AVQ which does require radials but it wasn't very hard to do as the
specs called for only 4 or 6 multi wires , ie. 4 wire rotor control.
Cushcraft and I'm sure others make a vertical that doesn't need radials.
I also hung a quick dipole for 80 from the tower.

In that format the R7 is a vertical dipole not a true 1/4 wave vertical but the
R7 has been nice and good band width. R9 rings a bell and is a newer version
and if not standard I believe an 80 kit is available.
Mike
Iowa

----- Original Message ----- 11
From: ke5ofo<mailto:ke5ofo@...>
To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, October 31, 2009 10:09 PM
Subject: [TS-520_820_530_830] Need some antenna help.

Recent Activity
a.. 11New Members<http://groups.yahoo.com/group/TS-520_820_530_830/members;_ylc=X3oDMTJmbG
hhczI4BF9TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwN2dGwEc2xrA3ZtYnJz
BHN0aW1lAzEyNTcwNDUwMDA->
b.. 1New Files<http://groups.yahoo.com/group/TS-520_820_530_830/files;_ylc=X3oDMTJnczA1N3A
4BF9TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwN2dGwEc2xrA3ZmaWxlcwRzd
GltZQMxMjU3MDQ1MDAw>
Visit Your Group <http://groups.yahoo.com/group/TS-520_820_530_830;_ylc=X3oDMTJldjVxZ20wBF
9TAzk3MzU5NzE0BGdycElkAzc1MjUwMjEEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwN2dGwEc2xrA3ZnaHAEc3RpbWUD
MTI1NzA0NTAwMA-->
Drive Traffic
Sponsored Search<http://us.ard.yahoo.com/SIG=14hnq43qi/M=493064.12016255.12445662.8674578/
D=groups/S=1705063108:NC/Y=YAHOO/EXP=1257052200/L=/B=jZuHF0PDhF4-/J=1257045000747789/K=V1i
TLiQ5fYz39qxXfU.L9Q/A=4025338/R=0/SIG=12jnci1fd/*http://us.rd.yahoo.com/evt=44092/*http://
searchmarketing.yahoo.com/srch/index.php>

can help increase

your site traffic.

Hollywood kids
in the spotlight<http://us.ard.yahoo.com/SIG=14hr4pfqn/M=493064.11674890.13655129.8674578/
D=groups/S=1705063108:NC/Y=YAHOO/EXP=1257052200/L=/B=jpuHF0PDhF4-/J=1257045000747789/K=V1i

TLiQ5fYz39qxXfU.L9Q/A=5807837/R=0/SIG=11sokji2u/*http://omg.yahoo.com/blogs/goddess/spotlight-to-nightlight>

Their moms

share secrets

Yahoo! Groups
Auto Enthusiast Zone<http://us.ard.yahoo.com/SIG=14hvfjcrm/M=493064.12717544.13455789.8674578/D=groups/S=1705063108:NC/Y=YAHOO/EXP=1257052200/L=/B=j5uHF0PDhF4-/J=1257045000747789/K=V1iTLiQ5fYz39qxXfU.L9Q/A=5658247/R=0/SIG=11ptgj47g/*http://advision.webevents.yahoo.com/autoenthusiastzone/>

Passionate about cars?

Check out the Auto Enthusiast Zone.
.

[Non-text portions of this message have been removed]

23205. Re: [TS-520_820_530_830] Need some antenna help.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-01 03:48:44 UTC
From: John Davidson
Topic: 23201 Message: 23205

I have had a few verticals over the years, including some home brew monobanders and a few Huslers, but I have been using a Butternut HF6V for about 12 years and it is a good design for a multibander, this one has 30M where I started out with a MFJ QRP rig and worked much European DX with 5w.

--- On Sat, 10/31/09, ke5ofo <ke5ofo@...> wrote:

From: ke5ofo <ke5ofo@yahoo.com>
Subject: [TS-520_820_530_830] Need some antenna help.
To: TS-520_820_530_830@yahoogroups.com
Date: Saturday, October 31, 2009, 11:09 PM

I have recently moved into a new house and been given the blessing by my landlord to be able to put up a vertical antenna to use with my TS-520. I had been planing on building my own but have had some intresting changes in my work schedule and have decided to just buy a nice multi band vertical. So my question is witch commercial multi band ground mount vertical would be the best match with a TS-520. I am wanting to work 80-10 meters. I know the bandwidth of most of these on 75/80 is very narrow but that's ok as I will probably be on the higher bands more offen. I also know I will need a good ground radial system no matter witch antenna I end up with.

I have been looking at the Hustler btv series, Gap Challenger DX, hy-gain AV-18AVQII, and MFJ-1798. So far I think I am leaning twords the Hustler or the Hy-Gain. Most of the reviews of these I have found online are based off of using with a modern transistor final rig and not with the good ole tube finals of our beloved Kenwoods.

Any recomendations or advice would be appreacated.

Thanks
Kerry
KE5OFO - Weatherford OK.

[Non-text portions of this message have been removed]

23206. RE: [TS-520_820_530_830] Need some antenna help.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-01 04:26:06 UTC
From: david welker
Topic: 23201 Message: 23206

I would recommend the Butternut HF6. I have been using oner (the HF5) for 20 years and have worked the world and it is still standing ok.
73 Dave K3SI

To: TS-520_820_530_830@yahoogroups.com
From: ke5ofo@...
Date: Sun, 1 Nov 2009 03:09:31 +0000
Subject: [TS-520_820_530_830] Need some antenna help.

I have recently moved into a new house and been given the blessing by my landlord to be able to put up a vertical antenna to use with my TS-520. I had been planing on building my own but have had some intresting changes in my work schedule and have decided to just buy a nice multi band vertical. So my question is witch commercial multi band ground mount vertical would be the best match with a TS-520. I am wanting to work 80-10 meters. I know the bandwidth of most of these on 75/80 is very narrow but that's ok as I will probably be on the higher bands more offen. I also know I will need a good ground radial system no matter witch antenna I end up with.

I have been looking at the Hustler btv series, Gap Challenger DX, hy-gain AV-18AVQII, and MFJ-1798. So far I think I am leaning twords the Hustler or the Hy-Gain. Most of the reviews of these I have found online are based off of using with a modern transistor final rig and not with the good ole tube finals of our beloved Kenwoods.

Any recomendations or advice would be appreacated.

Thanks
Kerry
KE5OFO - Weatherford OK.

_____
Windows 7: Simplify your PC. Learn more.
http://www.microsoft.com/Windows/windows-7/default.aspx?ocid=PID24727::T:WLMTAGL:ON:WL:en-US:WWL_WIN_evergreen1:102009

[Non-text portions of this message have been removed]

23207. Correction regarding the [Files] section of SM220/BS-8 with TS-530S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-01 02:10:39 UTC
From: Nathan Fowler
Topic: 23207 Message: 23207

I misspoke earlier, "On the IF board (X48-1310-00) (facing radio, far-right board)" should read as "On the IF board (X48-1310-00) (facing radio, far-left board)", please make this correction in the Files section to the article titled "SM220 to TS530S". It was a long day when I wrote that and it was very likely at the time I didn't know my right from my left :)

Thanks/73,
Nathan/KJ4AUR

[Non-text portions of this message have been removed]

23208. Re: new 6146 tubes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-01 04:42:50 UTC
From: loewensteijn@rocketmail.com
Topic: 23176 Message: 23208

Please note that RFparts warns against using the W version in the Kenwoods. Don't know the reason behind it.

Marinus, Zl2ML

--- In TS-520_820_530_830@yahoogroups.com, "Gmail - Kevin, Natalia, Stacey & Rochelle" <sparcnz@...> wrote:
>
> Yes you can, the "W" can handle a bit of rough operation.
> I understand the "W" is rugidised (sorry for the spelling)
>
> Kevin. ZL1KFM.
> ----- Original Message -----
> From: gazza2p
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, October 31, 2009 12:40 PM
> Subject: [TS-520_820_530_830] new 6146 tubes
>
>
> has anybody replaced the 6146B tubes with the 6146W tubes.
> I see there is a web site in the USA selling matched pairs of 6146W tubes for $39 US.
> I have a TS-530S and would like to use the 6146W tubes if they are suitable.
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

23209. Re: new 6146 tubes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-01 04:48:13 UTC
From: loewensteijn@rocketmail.com
Topic: 23176 Message: 23209

PS

I just checked and it refers to the GE version of the 6146W. Sylvania / Philips appear to be OK.

http://www.rfparts.com/tubetran.html

Marinus

--- In TS-520_820_530_830@yahoogroups.com, "Gmail - Kevin, Natalia, Stacey & Rochelle" <sparcnz@...> wrote:
>
> Yes you can, the "W" can handle a bit of rough operation.
> I understand the "W" is rugidised (sorry for the spelling)
>
> Kevin. ZL1KFM.
> ----- Original Message -----
> From: gazza2p
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, October 31, 2009 12:40 PM
> Subject: [TS-520_820_530_830] new 6146 tubes
>
>
> has anybody replaced the 6146B tubes with the 6146W tubes.
> I see there is a web site in the USA selling matched pairs of 6146W tubes for $39 US.
> I have a TS-530S and would like to use the 6146W tubes if they are suitable.
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

23210. TS-520 parts

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-01 04:52:46 UTC
From: loewensteijn@rocketmail.com
Topic: 23210 Message: 23210

I am dismanteling a TS-520. If you have a specific need let me know but cabinet and transformer are not worthwhile shipping (to heavy to make it worthwhile).

Marinus, ZL2ML

23211. Re: TS-530 Cathode resistors on Eham Elmer forum

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-01 05:04:27 UTC
From: loewensteijn@rocketmail.com
Topic: 23175 Message: 23211

I have got a TS-520D sitting here with fuse intact and the resistors blown up. Somehow they have a role in protecting/preventing something.

Just my $1.00 worth ($0.02 plus inflation)

Marinus, ZL2ML

--- In TS-520_820_530_830@yahoogroups.com, "Dick Merryman" <dicko@...> wrote:
>
> The CAR pot on my TS-830S failed and I got max drive. The Ip meter pegged
> and before I could do anything, about 2 seconds, the panel lights dimmed and
> then the line fuse blew. After fixing the problem the Xcvr worked just
> fine, like nothing had ever happened. The cathode resistors remained at 5
> ohms.
>
> After that experience I don't worry too much about the power transformer; it
> is pretty rugged compared to the line fuse.
>
> -Dick-
> N3XRU
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Chris and Alex
> Sent: Saturday, October 31, 2009 9:07 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] TS-530 Cathode resistors on Eham Elmer
> forum
>
>
>
>
>
> I feel quite drained now after reading that on the Eham forum. lol
>
> I didn't think the resistors were sized to protect the tubes, the maths
> shows that that does'nt work, but if the tubes fail short circuit as they
> can, the resistors will fail and save the transformer. Unless I missed it no
> one seems to have mentioned that.
>
> 73 Chris SV0XBQ/9
>
> 2009/10/31 james27613 <james27613@bellsout
> <mailto:james27613%40bellsouth.net> h.net>
>
> >

> >
> > Hi,
> >
> > Interesting thread on eham elmers forum on the
> > cathode resistors in the ts-530.
> >
> > http://www.eham. <http://www.eham.net/forums/Elmers/236373?page=1>
> net/forums/Elmers/236373?page=1
> >
> > 73 james ke4drn
> >
> >
> >
>
> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
>

23212. Re: new 6146 tubes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-01 05:41:37 UTC
From: Harry
Topic: 23176 Message: 23212

--- Earlier manufacture date (maybe)? Earlier tubes (6146W's are equivalent to a 6141A/6346!

There are actually three distinctive variants of the basic 6146: The 6146, 6146A, and 6146B. It is unfortunate that the 6146B was called the 6146B for it is really a different tube from the first two. Primarily the difference between the "plain" 6146 and the 6146A is the makeup of the heater ("filament"). The 6146A has what RCA calls the "dark heater". This "dark heater" is supposed to be more resilient to vibration, work well at a larger "range" of voltage, etc. Otherwise, the 6146 and the 6146A are the same tube.
In mid-1964 RCA introduced the 6146B with the "claim" of 33.33 percent higher power input than the 6146 / 6146A. Also, it was "claimed" that the 6146B could be directly substituted for the earlier tubes. The 6146 / 6146A had a maximum rated power input of 90 watts for CW and SSB operation and the 6146B had a rating of 120 watts for the same emissions.

If you wanted to read the full article by Glen E. Zook, K9STH,
Go to www.n6wk.com/kenwood/The_6146_Family_of_Tubes-1.doc

It will explain everything!

Harry, k6aom

--- In TS-520_820_530_830@yahoogroups.com, "loewensteijn@..." <zl2ml@...> wrote:
>
> Please note that RFparts warns against using the W version in the Kenwoods. Don't know the reason behind it.
>
> Marinus, Zl2ML
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gmail - Kevin, Natalia, Stacey & Rochelle" <sparcnz@> wrote:
> >
> > Yes you can, the "W" can handle a bit of rough operation.
> > I understand the "W" is rugidised (sorry for the spelling)
> >
> > Kevin. ZL1KFM.
> > ----- Original Message -----
> > From: gazza2p
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Saturday, October 31, 2009 12:40 PM
> > Subject: [TS-520_820_530_830] new 6146 tubes
> >
> >
> > has anybody replaced the 6146B tubes with the 6146W tubes.
> > I see there is a web site in the USA selling matched pairs of 6146W tubes for $39 US.
> > I have a TS-530S and would like to use the 6146W tubes if they are suitable.
> >

> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

23213. TS-520 Shows no power out after HV Caps replaced..

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-01 05:42:02 UTC
From: whiteknight926
Topic: 23213 Message: 23213

Hi group..

Well I use to have 100 Watts output on this TS-520. I have replaced the Highvoltage caps in it and after I fired it up I got nothing out now. The rig seems to recive ok but the rig shows no drive peak for ALC when I try to tune up, No Highvoltage with the switch set for HV, And the stangest in No Current Biasing to set for 60 ma. although when truning the screw on the side for it the rigs lights get brighter and dimmer with turning. I am Not shure where to start but I can say that there is highvoltage on the caps. After you turn the rig off and stick a piece of wire to ground to the shorting resistors on the tubes there is a nice blue spark...

Thanks
Dan
WB0YYE

23214. RE: [TS-520_820_530_830] Need some antenna help.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-01 07:15:11 UTC
From: Dick Merryman
Topic: 23201 Message: 23214

Before you make a final selection of a vertical antenna you may want to read the following article:
<http://www.bencher.com/ham/index.php?main_page=page_4>
http://www.bencher.com/ham/index.php?main_page=page_4 and the following article: <http://www.bencher.com/pdfs/00815ZZV.pdf>
http://www.bencher.com/pdfs/00815ZZV.pdf and the following article:
<http://www.bencher.com/pdfs/00816ZZV.pdf>
http://www.bencher.com/pdfs/00816ZZV.pdf .

-Dick-
N3XRU

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of ke5ofo
Sent: Saturday, October 31, 2009 8:10 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Need some antenna help.

I have recently moved into a new house and been given the blessing by my landlord to be able to put up a vertical antenna to use with my TS-520. I had been planing on building my own but have had some intresting changes in my work schedule and have decided to just buy a nice multi band vertical. So my question is witch commercial multi band ground mount vertical would be the best match with a TS-520. I am wanting to work 80-10 meters. I know the bandwidth of most of these on 75/80 is very narrow but that's ok as I will probably be on the higher bands more offen. I also know I will need a good ground radial system no matter witch antenna I end up with.

I have been looking at the Hustler btv series, Gap Challenger DX, hy-gain AV-18AVQII, and MFJ-1798. So far I think I am leaning twords the Hustler or the Hy-Gain. Most of the reviews of these I have found online are based off of using with a modern transistor final rig and not with the good ole tube finals of our beloved Kenwoods.

Any recomendations or advice would be appreacated.

Thanks
Kerry
KE5OFO - Weatherford OK.

[Non-text portions of this message have been removed]

23215. Re: TS-520 Shows no power out after HV Caps replaced..

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-01 16:11:13 UTC
From: w5rkl
Topic: 23213 Message: 23215

Dan,

I suspect your problem is a "wiring" issue. I recommend rechecking ALL of your wiring and compare it against the 520's schematic.

Since you have zero IP current (60ma meter indication in USB or LSB), that tells me you have one of the following problems:

1. SG switch has been accidentally set to it's "OFF" position.

or

2. No HV present on the final tube plate caps due to a wiring error.

The absence of a HV meter indication tells me you have a broken connection from the positive terminal of C18 and the HV UNIT's "800" terminal. You have already stated there is HV present at the filter capacitors. Therefore, a broken connection from the positive terminal of C18 and the HV UNIT's "HV" terminal will result in zero HV meter indication in transmit.

Absence of HV has nothing to do with the receiver. The receiver operates entirely from the Rectifier Unit's 14VDC supply. The 14VDC Rectifier Unit supply provides 14VDC to the FIX CH AVR UNIT where the various low voltages for the receiver are produced and distributed.

The dimming of the dial lamps tells me, as I stated above, you have a wiring issue. Again, recheck ALL of your wiring and compare it against the 520's schematic. I am sure you will find where you made a wrong connection.

Discharge ALL capacitors before performing wiring checks. Use an ohm meter and make continuity checks based on the 520's schematic, and you will find you wiring error.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "whiteknight926" <dsellmeyer@...> wrote:
>
> Hi group..
>
> Well I use to have 100 Watts output on this TS-520. I have replaced the Highvoltage caps in it and after I fired it up I got nothing out now. The rig seems to recive ok but the rig shows no drive peak for ALC when I try to tune up, No Highvoltage with the switch set for HV, And the stangest in No Current Biasing to set for 60 ma. although when truning the screw on the side for it the rigs lights get brighter and dimmer with turning. I am Not shure where to start but I can say that there is highvoltage on the caps. After you turn the rig off and stick a piece of wire to ground to the shorting resistors on the tubes there is a nice blue spark...
>
> Thanks

> Dan
> WB0YYE
>

23216. Re: TS-520 Shows no power out after HV Caps replaced..

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-01 16:57:01 UTC
From: ah6rr1
Topic: 23213 Message: 23216

I agree with Mike there is a wiring issue or the SG swtich is off but I would go with the wiring since you stated it would transmit before.
Start with the wire that goes to the terminal marked (0) on the 800V winding of the transformer that should go between the + on C31 and - on C32. Then check the wire that goes from the + on C32 to the 800 on the rectifier board (and 800 on the HV board)then from there it should goto L5 in the Final's. The - on C31 should goto ground.
Hope this helps
Roland AH6RR

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
>
> Dan,
>
> I suspect your problem is a "wiring" issue. I recommend rechecking ALL of your wiring and compare it against the 520's schematic.
>
> Since you have zero IP current (60ma meter indication in USB or LSB), that tells me you have one of the following problems:
>
> 1. SG switch has been accidentally set to it's "OFF" position.
>
> or
>
> 2. No HV present on the final tube plate caps due to a wiring error.
>
> The absence of a HV meter indication tells me you have a broken connection from the positive terminal of C18 and the HV UNIT's "800" terminal. You have already stated there is HV present at the filter capacitors. Therefore, a broken connection from the positive terminal of C18 and the HV UNIT's "HV" terminal will result in zero HV meter indication in transmit.
>
> Absence of HV has nothing to do with the receiver. The receiver operates entirely from the Rectifier Unit's 14VDC supply. The 14VDC Rectifier Unit supply provides 14VDC to the FIX CH AVR UNIT where the various low voltages for the receiver are produced and distributed.
>
> The dimming of the dial lamps tells me, as I stated above, you have a wiring issue. Again, recheck ALL of your wiring and compare it against the 520's schematic. I am sure you will find where you made a wrong connection.
>
> Discharge ALL capacitors before performing wiring checks. Use an ohm meter and make continuity checks based on the 520's schematic, and you will find you wiring error.
>
> 73's

> Mike W5RKL
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "whiteknight926" <dsellmeyer@> wrote:
> >
> > Hi group..
> >
> > Well I use to have 100 Watts output on this TS-520. I have replaced the Highvoltage caps in it and after I fired it up I got nothing out now. The rig seems to recive ok but the rig shows no drive peak for ALC when I try to tune up, No Highvoltage with the switch set for HV, And the stangest in No Current Biasing to set for 60 ma. although when truning the screw on the side for it the rigs lights get brighter and dimmer with turning. I am Not shure where to start but I can say that there is highvoltage on the caps. After you turn the rig off and stick a piece of wire to ground to the shorting resistors on the tubes there is a nice blue spark...
> >
> > Thanks
> > Dan
> > WB0YYE
> >
>

23217. Re: TS-520 Shows no power out after HV Caps replaced..

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-01 18:07:03 UTC
From: w5rkl
Topic: 23213 Message: 23217

One more thing.

Do NOT be confused by the different HV capacitor labels. Roland gave "C31 and C32" and I said "C17" and "C18". They are the same capacitors just labeled different based on the 520 model. Take the time to study the schematic, trace your wiring, and I believe you will find your wiring mistake.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "ah6rr1" <ah6rr@...> wrote:
>
> I agree with Mike there is a wiring issue or the SG swtich is off but I would go with the wiring since you stated it would transmit before.
> Start with the wire that goes to the terminal marked (0) on the 800V winding of the transformer that should go between the + on C31 and - on C32. Then check the wire that goes from the + on C32 to the 800 on the rectifier board (and 800 on the HV board)then from there it should goto L5 in the Final's. The - on C31 should goto ground.
> Hope this helps
> Roland AH6RR
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> >
> > Dan,
> >
> > I suspect your problem is a "wiring" issue. I recommend rechecking ALL of your wiring and compare it against the 520's schematic.
> >
> > Since you have zero IP current (60ma meter indication in USB or LSB), that tells me you have one of the following problems:
> >
> > 1. SG switch has been accidentally set to it's "OFF" position.
> >
> > or
> >
> > 2. No HV present on the final tube plate caps due to a wiring error.
> >
> > The absence of a HV meter indication tells me you have a broken connection from the positive terminal of C18 and the HV UNIT's "800" terminal. You have already stated there is HV present at the filter capacitors. Therefore, a broken connection from the positive terminal of C18 and the HV UNIT's "HV" terminal will result in zero HV meter indication in transmit.
> >
> > Absence of HV has nothing to do with the receiver. The receiver operates entirely from the Rectifier Unit's 14VDC supply. The 14VDC Rectifier Unit supply provides 14VDC to the

FIX CH AVR UNIT where the various low voltages for the receiver are produced and distributed.
> >
> > The dimming of the dial lamps tells me, as I stated above, you have a wiring issue. Again, recheck ALL of your wiring and compare it against the 520's schematic. I am sure you will find where you made a wrong connection.
> >
> > Discharge ALL capacitors before performing wiring checks. Use an ohm meter and make continuity checks based on the 520's schematic, and you will find you wiring error.
> >
> > 73's
> > Mike W5RKL
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "whiteknight926" <dsellmeyer@> wrote:
> > >
> > > Hi group..
> > >
> > > Well I use to have 100 Watts output on this TS-520. I have replaced the Highvoltage caps in it and after I fired it up I got nothing out now. The rig seems to recive ok but the rig shows no drive peak for ALC when I try to tune up, No Highvoltage with the switch set for HV, And the stangest in No Current Biasing to set for 60 ma. although when truning the screw on the side for it the rigs lights get brighter and dimmer with turning. I am Not shure where to start but I can say that there is highvoltage on the caps. After you turn the rig off and stick a piece of wire to ground to the shorting resistors on the tubes there is a nice blue spark...
> > >
> > > Thanks
> > > Dan
> > > WB0YYE
> > >
> >
>

23218. Fw: Extra Mics for Knwd

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-01 18:32:26 UTC
From: jsloss
Topic: 23218 Message: 23218

MC-50 - nice condition. 4-pin connector. Missing the small ON-OFF label on the barrel of the mic $45. Shure mic (similar in appearance to their 444) , w/ GE logo, wired w/ Knwd 4-pin connector, $18. Can provide photos. Joe k7mks

[Non-text portions of this message have been removed]

23219. Re: [TS-520_820_530_830] Need some antenna help.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-01 19:00:42 UTC
From: martin
Topic: 23201 Message: 23219

Hi Kerry. I would go with the Hustler 5BTV. Replace the
bolts/nuts/screws with stainless steel ones are you will be set for
many years to come. While many verticals will work without radials,
(elevated or ground), they ALL work better with than without them.

Just my thoughts...

ke5ofo wrote:
> I have recently moved into a new house and been given the blessing
> by my landlord to be able to put up a vertical antenna to use with
> my TS-520. I had been planing on building my own but have had some
> intresting changes in my work schedule and have decided to just buy
> a nice multi band vertical. So my question is witch commercial
> multi band ground mount vertical would be the best match with a
> TS-520. I am wanting to work 80-10 meters. I know the bandwidth of
> most of these on 75/80 is very narrow but that's ok as I will
> probably be on the higher bands more offen. I also know I will
> need a good ground radial system no matter witch antenna I end up
> with.
>
> I have been looking at the Hustler btv series, Gap Challenger DX,
> hy-gain AV-18AVQII, and MFJ-1798. So far I think I am leaning
> twords the Hustler or the Hy-Gain. Most of the reviews of these I
> have found online are based off of using with a modern transistor
> final rig and not with the good ole tube finals of our beloved
> Kenwoods.
>
> Any recomendations or advice would be appreacated.
>
> Thanks Kerry KE5OFO - Weatherford OK.
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

23220. Re: TS-520 Shows no power out after HV Caps replaced..

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-01 19:01:12 UTC
From: whiteknight926
Topic: 23213 Message: 23220

Well I checked the wiring comparing it to another 520 and seems I have it right. I have also checked with the rig power on and there is high voltage all the way though the HV caps and to the top of the L5 Coil I am looking into what is next after this. I believe is something simple, I just have to find it...

Thanks
Dan
WB0YYE

23221. Re: Fw: Extra Mics for Knwd

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-01 19:23:30 UTC
From: Harry
Topic: 23218 Message: 23221

--- I will take the "Shure", please send pics to confirm!
My call @....

Harry, k6aom

--- In TS-520_820_530_830@yahoogroups.com, "jsloss" <k7mks@...> wrote:
>
>
>
>
> MC-50 - nice condition. 4-pin connector. Missing the small ON-OFF label on the barrel of the mic $45. Shure mic (similar in appearance to their 444) , w/ GE logo, wired w/ Knwd 4-pin connector, $18. Can provide photos. Joe k7mks
>
> [Non-text portions of this message have been removed]
>

23222. Re: [TS-520_820_530_830] TS-520 parts

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-01 20:21:24 UTC
From: Karl Reed
Topic: 23210 Message: 23222

i need the side cover with rubber pegs for the vox control how much for this?

From: "loewensteijn@..." <zl2ml@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sat, October 31, 2009 9:52:46 PM
Subject: [TS-520_820_530_830] TS-520 parts

I am dismanteling a TS-520. If you have a specific need let me know but cabinet and transformer are not worthwhile shipping (to heavy to make it worthwhile).

Marinus, ZL2ML

[Non-text portions of this message have been removed]

23223. Re: [TS-520_820_530_830] Fw: Extra Mics for Knwd

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-01 19:17:00 UTC
From: Bernie Roche
Topic: 23218 Message: 23223

Dear Joe:

I have already paid you for this mic by Paypal...unless you happen to have TWO mics which fit the same description. Why are you now offering it for sale at a lower price????

Is there some problem with the Paypal payment not going through, and if so, why have you not contacted me, rather then putting the mic up for sale again?

Best Wishes,

Bernie Roche
VE3OTR
Emergency Coordinator
York Region ARES
(416) 497-9789
broche@...

On 1 Nov 2009 at 10:32, jsloss wrote:

>
>
>
> MC-50 - nice condition. 4-pin connector. Missing the small ON-OFF label on the barrel of the mic $45. Shure mic (similar in appearance to their 444) , w/ GE logo, wired w/ Knwd 4-pin connector, $18. Can provide photos. Joe k7mks
>
> [Non-text portions of this message have been removed]
>
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> Yahoo! Groups Links
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23224. Re: [TS-520_820_530_830] TS-520 parts

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-01 20:23:02 UTC
From: Karl Reed
Topic: 23210 Message: 23224

i could also use the relay mine is starting to stick thanks

From: "loewensteijn@..." <zl2ml@...m>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sat, October 31, 2009 9:52:46 PM
Subject: [TS-520_820_530_830] TS-520 parts

I am dismanteling a TS-520. If you have a specific need let me know but cabinet and transformer are not worthwhile shipping (to heavy to make it worthwhile).

Marinus, ZL2ML

[Non-text portions of this message have been removed]

23225. Re: new 6146 tubes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-02 01:27:18 UTC
From: james27613
Topic: 23176 Message: 23225

hi,

the finals and drivers I got from
http://www.surplussales.com/tubes-sock-acc/TubeSpecials.html
are military JAN and they are dated on the tube box.

73 james ke4drn

23226. Re: TS-520 parts

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-02 06:42:34 UTC
From: whiteknight926
Topic: 23210 Message: 23226

If you find someone that has 2, I would be interested in one also.

Thanks
Dan
WB0YYE

23227. MC-50 mic

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-02 06:54:47 UTC
From: jsloss
Topic: 1307 Message: 23227

The MC-50 mic has been sold.

Thank you,

Joe k7mks

[Non-text portions of this message have been removed]

23228. Re: TS-520 Shows no power out after HV Caps replaced..

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-02 13:10:40 UTC
From: w5rkl
Topic: 23213 Message: 23228

Ok Dan.

Tackle one problem at a time.

First problem, no HV meter indication.

You said the HV meter position, in transmit, shows zero volts. You did, however, say you measured HV at the filter caps and I assume that means you measured HV at the positive terminal of C32.

Having said that, if you have HV on the positive terminal of C32 but the HV meter position indicates zero voltage then measure the voltage on the HV UNIT's 800 terminal, it should be the same as the voltage on the positive terminal of filter capacitor C32. If the voltage is missing on the HV UNIT's 800 terminal then you have a bad or broken connection between the positive terminal of C32 and the HV UNIT's 800 terminal. Fix this and your HV metering problem will be eliminated.

Second problem, Lack of 60ma idling current.

You said you have HV at the top of L5. That's good. Now, measure the voltage at the top of L6, final amplifier's RF choke. It should be the same voltage at the top of L5 AND the same voltage at the positive terminal of C32.

If there is no HV on the top of L6 then that's the reason why you do not have any idling current in USB or LSB mode which is why you have no RF output!

By the way, don't be fooled into believing once you start seeing HV on the HV meter setting in transmit (any mode) that you should see RF output. The HV meter switch setting simply displays HV output from the HV supply. It does NOT verify that HV is being applied to the final tubes. A broken or bad connection between the positive terminal of C32 and L5/L6 will still show HV on the meter but there will be no HV on the final tube plates. No HV on the final tube plates results in no 60ma idling current and no RF output. This why I recommended tracing/verifying the wiring in your 520 and compare it with the 520's schematic. I do not recommend using another 520 to verify wiring as there could be modifications, changes, etc by a previous owner that may not reflect the same wiring as the 520 schematic.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "whiteknight926" <dsellmeyer@...> wrote:
>
> Well I checked the wiring comparing it to another 520 and seems I have it right. I have also checked with the rig power on and there is high voltage all the way though the HV caps and to the top of the L5 Coil I am looking into what is next after this. I believe is something simple, I just have to find it...
>

>
> Thanks
> Dan
> WB0YYE
>

23229. Re: TS-520 parts

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-02 15:34:06 UTC
From: w5rkl
Topic: 23210 Message: 23229

Karl,

You might try cleaning the relay first before replacing the relay. Sticky relays can often be traced to dirt/dust build up at the armature pivot point.

If the symptom also includes weak receive when changing from transmit to receive, the problem is most likely caused by dirty relay contacts. Any dirt/corrosion/carbon build up on the relay contacts can affect signal flow through the relay contacts resulting in a weaker than normal signal being applied to the receiver's RF amplifier, hence weak receive. Cleaning the relay contacts in many cases can eliminate this problem.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Karl Reed <kb1nzq@...> wrote:
>
> i could also use the relay mine is starting to stick thanks
>
>
>
>
> _____
> From: "loewensteijn@..." <zl2ml@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sat, October 31, 2009 9:52:46 PM
> Subject: [TS-520_820_530_830] TS-520 parts
>
>
> I am dismanteling a TS-520. If you have a specific need let me know but cabinet and transformer are not worthwhile shipping (to heavy to make it worthwhile).
>
> Marinus, ZL2ML
>
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>
> [Non-text portions of this message have been removed]
>

23230. Searching for

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-02 19:10:20 UTC
From: Allan C
Topic: 23230 Message: 23230

Hi, Hope everyone is doing well have not posted in awhile and now I have found a old radio but it has two issues one the squelch will not work but I thing I know what the problem is there, the other issue is finding the mic., that came with the radio when it was made and I thought maybe one of you guys will know because it dates back to when the hybreds were the radio to have and in some case's still is. The radio I have now was a little ahead of it time it was a tank the Kenwood TW-4000A I would like to find the mic. that was issued for that radio and the model number of the mic. everything I have found never mentions what mic., or the model number is the a member in the group whom might know. ?

Allan=kb5doh

73 and God bless

[Non-text portions of this message have been removed]

23231. Re: [TS-520_820_530_830] Searching for

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-02 20:11:17 UTC
From: Dave ve3wej
Topic: 23230 Message: 23231

the mic I beleive (check the manual !!!) should be the mc-48b...

----- Original Message -----
From: "Allan C" <a1mc@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, November 02, 2009 2:10 PM
Subject: [TS-520_820_530_830] Searching for

>
> Hi, Hope everyone is doing well have not posted in awhile and now I have
> found a old radio but it has two issues one the squelch will not work
> but I thing I know what the problem is there, the other issue is finding
> the mic., that came with the radio when it was made and I thought maybe
> one of you guys will know because it dates back to when the hybreds were
> the radio to have and in some case's still is. The radio I have now was
> a little ahead of it time it was a tank the Kenwood TW-4000A I would
> like to find the mic. that was issued for that radio and the model
> number of the mic. everything I have found never mentions what mic., or
> the model number is the a member in the group whom might know. ?
>
> Allan=kb5doh
>
> 73 and God bless
>
>
>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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23232. Re: [TS-520_820_530_830] TS-520 parts

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-02 20:39:53 UTC
From: mark helinski
Topic: 23210 Message: 23232

dear 520 group
i have a parts rig for 185.00 plus shipping
email me at marksbuffalobills@...
or 712 2541250

2yahoo.com

--- On Sun, 11/1/09, Karl Reed <kb1nzq@...> wrote:

From: Karl Reed <kb1nzq@yahoo.com>
Subject: Re: [TS-520_820_530_830] TS-520 parts
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, November 1, 2009, 2:23 PM

i could also use the relay mine is starting to stick thanks

---------- --------- --------- --
From: "loewensteijn@ rocketmail. com" <zl2ml@hotmail. com>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Sat, October 31, 2009 9:52:46 PM
Subject: [TS-520_820_ 530_830] TS-520 parts

I am dismanteling a TS-520. If you have a specific need let me know but cabinet and
transformer are not worthwhile shipping (to heavy to make it worthwhile).

Marinus, ZL2ML

[Non-text portions of this message have been removed]

Do You Yahoo!?
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http://mail.yahoo.com

[Non-text portions of this message have been removed]

23233. Re: TS-520 parts

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-02 22:04:12 UTC
From: Hartlessone
Topic: 23210 Message: 23233

is the leather strap and connecting hardware in good condx and if so how much?
Bill
billhart_1@...

--- In TS-520_820_530_830@yahoogroups.com, mark helinski <marksbuffalobills@...> wrote:
>
> dear 520 group
> i have a parts rig for 185.00 plus shipping
> email me at marksbuffalobills@...
> or 712 2541250
>
>
> 2yahoo.com
>
> --- On Sun, 11/1/09, Karl Reed <kb1nzq@...> wrote:
>
>
> From: Karl Reed <kb1nzq@...>
> Subject: Re: [TS-520_820_530_830] TS-520 parts
> To: TS-520_820_530_830@yahoogroups.com
> Date: Sunday, November 1, 2009, 2:23 PM
>
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>
> i could also use the relay mine is starting to stick thanks
>
> __________ _________ _________ __
> From: "loewensteijn@ rocketmail. com" <zl2ml@hotmail. com>
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Sat, October 31, 2009 9:52:46 PM
> Subject: [TS-520_820_ 530_830] TS-520 parts
>
>
> I am dismanteling a TS-520. If you have a specific need let me know but cabinet and
transformer are not worthwhile shipping (to heavy to make it worthwhile).
>
> Marinus, ZL2ML
>
> [Non-text portions of this message have been removed]
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> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
> [Non-text portions of this message have been removed]
>

23234. Radio keys up but no audio

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-02 23:00:13 UTC
From: blacklabpupp
Topic: 23234 Message: 23234

I am haveing a problem the radio keys up, but no audio. Can someone tell me what might be going on? No audio when I use monitor. Gene

23235. Re: [TS-520_820_530_830] Radio keys up but no audio

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-02 23:29:19 UTC
From: Charlie , W5COV
Topic: 23234 Message: 23235

What checks have you done so far ? Have you tried a different mike ? If it is an amplified mike , checked the batteries ? Audio gain properly set ? Checked solder connections on the mike plug to see that a wire isn't broken or shorted ?

I know these are "basic" items , but you didn't give much detail and sometimes we often tend to overlook the basics , just assuming they are ok .

Charlie , W5COV

[Non-text portions of this message have been removed]

23236. Re: Radio keys up but no audio

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-02 23:33:01 UTC
From: blacklabpupp
Topic: 23234 Message: 23236

Yes Sir I checked all that. New mic as well. 820 just will not talk. Gene

--- In TS-520_820_530_830@yahoogroups.com, "Charlie , W5COV" <cvest@...> wrote:
>
> What checks have you done so far ? Have you tried a different mike ? If it is an amplified mike , checked the batteries ? Audio gain properly set ? Checked solder connections on the mike plug to see that a wire isn't broken or shorted ?
>
> I know these are "basic" items , but you didn't give much detail and sometimes we often tend to overlook the basics , just assuming they are ok .
>
> Charlie , W5COV
>
> [Non-text portions of this message have been removed]
>

23237. Re: TS-520 parts

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-02 23:47:05 UTC
From: loewensteijn@rocketmail.com
Topic: 23210 Message: 23237

Bill, cannot help you with those. No longer available.

73, Marinus

--- In TS-520_820_530_830@yahoogroups.com, "Hartlessone" <billhart_1@...> wrote:
>
> is the leather strap and connecting hardware in good condx and if so how much?
> Bill
> billhart_1@...
>
> --- In TS-520_820_530_830@yahoogroups.com, mark helinski <marksbuffalobills@> wrote:
> >
> > dear 520 group
> > i have a parts rig for 185.00 plus shipping
> > email me at marksbuffalobills@
> > or 712 2541250
> > >
> > >
> > 2yahoo.com
> > >
> > --- On Sun, 11/1/09, Karl Reed <kb1nzq@> wrote:
> > >
> > >
> > From: Karl Reed <kb1nzq@>
> > Subject: Re: [TS-520_820_530_830] TS-520 parts
> > To: TS-520_820_530_830@yahoogroups.com
> > Date: Sunday, November 1, 2009, 2:23 PM
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> > >
> > i could also use the relay mine is starting to stick thanks
> > >
> > __________ _________ _________ __
> > From: "loewensteijn@ rocketmail. com" <zl2ml@hotmail. com>
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Sent: Sat, October 31, 2009 9:52:46 PM
> > Subject: [TS-520_820_ 530_830] TS-520 parts
> > >
> > >
> > I am dismanteling a TS-520. If you have a specific need let me know but cabinet and transformer are not worthwhile shipping (to heavy to make it worthwhile).
> > >

> > Marinus, ZL2ML
> >
> > [Non-text portions of this message have been removed]
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> > _____
> > Do You Yahoo!?
> > Tired of spam? Yahoo! Mail has the best spam protection around
> > http://mail.yahoo.com
> >
> > [Non-text portions of this message have been removed]
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>

23238. RE: [TS-520_820_530_830] Re: TS-520 parts

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-03 00:10:21 UTC
From: Greg Anders
Topic: 23210 Message: 23238

Bill,

Here's a tip for leather straps. Measure the center-to-center hole dimensions. Then go to Antique Electronic Supply (www.tubesandmore.com<http://www.tubesandmore.com>). They sell many varieties of leather straps with chrome end caps for guitar amps. You may find one that works.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of loewensteijn@...
Sent: Monday, November 02, 2009 3:47 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS-520 parts

Bill, cannot help you with those. No longer available.

73, Marinus

--- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "Hartlessone" <billhart_1@...> wrote:
>
> is the leather strap and connecting hardware in good condx and if so how much?
> Bill
> billhart_1@...
>
> --- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, mark helinski <marksbuffalobills@> wrote:
> >
> > dear 520 group
> > i have a parts rig for 185.00 plus shipping
> > email me at marksbuffalobills@
> > or 712 2541250
> >
> >
> > 2yahoo.com
> >
> > --- On Sun, 11/1/09, Karl Reed <kb1nzq@> wrote:
> >
> >
> > From: Karl Reed <kb1nzq@>
> > Subject: Re: [TS-520_820_530_830] TS-520 parts
> > To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> > Date: Sunday, November 1, 2009, 2:23 PM
> >

> >
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> >
> > i could also use the relay mine is starting to stick thanks
> >
> > _____ _____ _____ __
> > From: "loewensteijn@ rocketmail. com" <zl2ml@hotmail. com>
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Sent: Sat, October 31, 2009 9:52:46 PM
> > Subject: [TS-520_820_ 530_830] TS-520 parts
> >
> >
> > I am dismanteling a TS-520. If you have a specific need let me know but cabinet and transformer are not worthwhile shipping (to heavy to make it worthwhile).
> >
> > Marinus, ZL2ML
> >
> > [Non-text portions of this message have been removed]
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> > _____
> > Do You Yahoo!?
> > Tired of spam? Yahoo! Mail has the best spam protection around
> > http://mail.yahoo.com
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> > [Non-text portions of this message have been removed]
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>

[Non-text portions of this message have been removed]

23239. Re: [TS-520_820_530_830] Re: Radio keys up but no audio

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-03 00:15:37 UTC
From: Charlie , W5COV
Topic: 23234 Message: 23239

I am sure the experts on here will get you going Gene .

I often see them talk a person through the problem right down to the exact component . I can't do that . They perform those amazing feats almost daily !!

They are an amazing and wonderful group of guys .

I will be following it to its successful completion . That is another great thing about this group , is you learn the problem and the troubleshooting to fix the problem.

Good Luck !!

Charlie , W5COV

[Non-text portions of this message have been removed]

23240. Re: [TS-520_820_530_830] Radio keys up but no audio

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-03 00:27:28 UTC
From: Dave ve3wej
Topic: 23234 Message: 23240

what happens in fsk mode, when you key, or cw mode.. I think moni works
on cw only or headphones only, i forget
(to prevent feedback)

Dave Garber
VE3WEJ

----- Original Message -----
From: "blacklabpupp" <blacklabpupp@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, November 02, 2009 6:00 PM
Subject: [TS-520_820_530_830] Radio keys up but no audio

>I am haveing a problem the radio keys up, but no audio. Can someone tell me
>what might be going on? No audio when I use monitor. Gene
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
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23241. Re: Radio keys up but no audio

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-03 00:30:36 UTC
From: blacklabpupp
Topic: 23234 Message: 23241

It worked on SSB while listening to monitor a few weeks ago, while testing the mic. But now nothing, just tunes up and no audio.

--- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@...> wrote:
>
> what happens in fsk mode, when you key, or cw mode.. I think moni works
> on cw only or headphones only, i forget
> (to prevent feedback)
>
> Dave Garber
> VE3WEJ
>
>
>
> ----- Original Message -----
> From: "blacklabpupp" <blacklabpupp@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Monday, November 02, 2009 6:00 PM
> Subject: [TS-520_820_530_830] Radio keys up but no audio
>
>
> >I am haveing a problem the radio keys up, but no audio. Can someone tell me
> >what might be going on? No audio when I use monitor. Gene
> >
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> > Yahoo! Groups Links
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>

23242. Re: Radio keys up but no audio

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-03 01:51:15 UTC
From: ah6rr1
Topic: 23234 Message: 23242

Have you tried a differnt mic? Do you get any ALC indication when you tune the radio? See if you get a signal on Q19-22 and D31-34 on the IF board, if the signal stops anywhere in that area replace the componet where it stops. Then start again.
Roland AH6RR

--- In TS-520_820_530_830@...m, "blacklabpupp" <blacklabpupp@...> wrote:
>
> It worked on SSB while listening to monitor a few weeks ago, while testing the mic. But now nothing, just tunes up and no audio.
>
> --- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@> wrote:
> >
> > what happens in fsk mode, when you key, or cw mode.. I think moni works
> > on cw only or headphones only, i forget
> > (to prevent feedback)
> >
> > Dave Garber
> > VE3WEJ
> >
> >
> >
> > ----- Original Message -----
> > From: "blacklabpupp" <blacklabpupp@>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Monday, November 02, 2009 6:00 PM
> > Subject: [TS-520_820_530_830] Radio keys up but no audio
> >
> >
> > >I am haveing a problem the radio keys up, but no audio. Can someone tell me
> > >what might be going on? No audio when I use monitor. Gene
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> > > Yahoo! Groups Links
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23243. Re: Radio keys up but no audio

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-03 03:03:46 UTC
From: w5rkl
Topic: 23234 Message: 23243

The TS-820's FSK mode does not use audio shifting tones to produce the RTTY signal. The RTTY signal is produced by shifting the CARRIER UNIT RF signal 170hz or 850hz depending on the NARROW/WIDE plug placement on the side of the CARRIER UNIT.

The TS-820 CW sidetone does not flow through the monitor circuit and monitor switch. The CW sidetone is produced on the FIX-VOX UNIT and fed directly to the AF AVR UNIT where it is applied to the main receive audio amplifier, Q3, then directly to the speaker.

Check for the presence of audio at TP2 on the IF UNIT. Lack of audio at TP2, with the MIC gain set properly and in transmit, indicates a possible failure in the speech amplifier, Q20 or Q21. Don't rule out a shorted microphone wiring, pin 1 on the microphone socket, broken wire on IF UNIT IF4 pin 13 etc, broken wire on the MIC gain pot, or any other broken or poor connection in the audio circuit. Trace the audio signal using an oscilloscope from the microphone socket, pin 1, through the speech amplifier Q20 and Q21 to TP2. See the IF UNIT and high resolution schematic available at N6WK's website:

http://www.n6wk.com/kenwood/

to see how the audio signal flows from the microphone through the speech amplifier to the balance modulator.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@...> wrote:
>
> what happens in fsk mode, when you key, or cw mode.. I think moni works
> on cw only or headphones only, i forget
> (to prevent feedback)
>
> Dave Garber
> VE3WEJ
>
>
>
> ----- Original Message -----
> From: "blacklabpupp" <blacklabpupp@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Monday, November 02, 2009 6:00 PM
> Subject: [TS-520_820_530_830] Radio keys up but no audio
>
>
> >I am haveing a problem the radio keys up, but no audio. Can someone tell me
> >what might be going on? No audio when I use monitor. Gene
> >
> >

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> > ------------------------------------
> >
> > Yahoo! Groups Links
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> >
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23244. RE: [TS-520_820_530_830] Re: TS-520 parts

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-03 12:51:56 UTC
From: Bill Hart
Topic: 23210 Message: 23244

Greg,
Thanks for the tip, but the problem is even more simple! The strap is in good condition, but the radio is missing one of the metal ends that secure it. All I really need is the hardware set from one end. Thanks so much for your tip.
73
Bill
W5ZV

--- On Mon, 11/2/09, Greg Anders <greg.anders@synopsys.com> wrote:

From: Greg Anders <greg.anders@...>
Subject: RE: [TS-520_820_530_830] Re: TS-520 parts
To: "TS-520_820_530_830@yahoogroups.com" <TS-520_820_530_830@yahoogroups.com>
Date: Monday, November 2, 2009, 7:10 PM

Bill,

Here's a tip for leather straps. Measure the center-to-center hole dimensions. Then go to Antique Electronic Supply (www.tubesandmore. com<http://www.tubesand more.com>). They sell many varieties of leather straps with chrome end caps for guitar amps. You may find one that works.

Greg

KG6YV

From: TS-520_820_530_ 830@yahoogroups. com [mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of loewensteijn@ rocketmail. com

Sent: Monday, November 02, 2009 3:47 PM

To: TS-520_820_530_ 830@yahoogroups. com

Subject: [TS-520_820_ 530_830] Re: TS-520 parts

Bill, cannot help you with those. No longer available.

73, Marinus

--- In TS-520_820_530_ 830@yahoogroups. com<mailto:TS-520_ 820_530_830% 40yahoogroups. com>, "Hartlessone" <billhart_1@ ...> wrote:

>

> is the leather strap and connecting hardware in good condx and if so how much?

> Bill

> billhart_1@. ..

>

> --- In TS-520_820_530_ 830@yahoogroups. com<mailto:TS-520_ 820_530_830% 40yahoogroups. com>, mark helinski <marksbuffalobills@ > wrote:

> >

> > dear 520 group

> > i have a parts rig for 185.00 plus shipping

> > email me at marksbuffalobills@

> > or 712 2541250

> >

> >

> > 2yahoo.com

> >

> > --- On Sun, 11/1/09, Karl Reed <kb1nzq@> wrote:

> >

> >

> > From: Karl Reed <kb1nzq@>

> > Subject: Re: [TS-520_820_ 530_830] TS-520 parts

> > To: TS-520_820_530_ 830@yahoogroups. com<mailto:TS-520_ 820_530_830% 40yahoogroups. com>

> > Date: Sunday, November 1, 2009, 2:23 PM

> >

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> >

> > i could also use the relay mine is starting to stick thanks

> >

> > __________ _________ _________ __

> > From: "loewensteijn@ rocketmail. com" <zl2ml@hotmail. com>

> > To: TS-520_820_530_ 830@yahoogroups. com

> > Sent: Sat, October 31, 2009 9:52:46 PM

> > Subject: [TS-520_820_ 530_830] TS-520 parts

> >

> >

> > I am dismanteling a TS-520. If you have a specific need let me know but cabinet and transformer are not worthwhile shipping (to heavy to make it worthwhile).

> >

> > Marinus, ZL2ML

> >

> > [Non-text portions of this message have been removed]

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> > Do You Yahoo!?

> > Tired of spam? Yahoo! Mail has the best spam protection around

> > http://mail. yahoo.com

> >

> > [Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23245. Re: Radio keys up but no audio

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-03 17:08:01 UTC
From: WimP
Topic: 23234 Message: 23245

Check your microphone connection, I had once a microphone plug, that you could insert either way, even upside down if you was uncareful.
The center part was smaller than usual.
After I had the set moved, I have searched for hours for that.

If it worked before, retrace your steps, it should work now too.
There are seldom problems in the audio part, mostly broken wires or low batteries in the attached microphone.

73, Wim PA0PGA

--- In TS-520_820_530_830@yahoogroups.com, "blacklabpupp" <blacklabpupp@...> wrote:
>
> It worked on SSB while listening to monitor a few weeks ago, while testing the mic. But now nothing, just tunes up and no audio.
>
> --- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@> wrote:
> >
> > what happens in fsk mode, when you key, or cw mode.. I think moni works
> > on cw only or headphones only, i forget
> > (to prevent feedback)
> >
> > Dave Garber
> > VE3WEJ
> >
> >
> >
> > ----- Original Message -----
> > From: "blacklabpupp" <blacklabpupp@>
> > To: <TS-520_820_530_830@...m>
> > Sent: Monday, November 02, 2009 6:00 PM
> > Subject: [TS-520_820_530_830] Radio keys up but no audio
> >
> >
> > >I am haveing a problem the radio keys up, but no audio. Can someone tell me
> > >what might be going on? No audio when I use monitor. Gene
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> > > Yahoo! Groups Links
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23246. RE: [TS-520_820_530_830] Re: TS-520 parts

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-03 17:14:53 UTC
From: Greg Anders
Topic: 23210 Message: 23246

Hi Bill,

Check out Antique Electronics, they have lots of parts for guitar amps and I see those metal end caps in their catalog.

Greg

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Bill Hart
Sent: Tuesday, November 03, 2009 4:52 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: RE: [TS-520_820_530_830] Re: TS-520 parts

Greg,
Thanks for the tip, but the problem is even more simple! The strap is in good condition, but the radio is missing one of the metal ends that secure it. All I really need is the hardware set from one end. Thanks so much for your tip.
73
Bill
W5ZV

--- On Mon, 11/2/09, Greg Anders <greg.anders@...<mailto:greg.anders%40synopsys.com>> wrote:

From: Greg Anders <greg.anders@...<mailto:greg.anders%40synopsys.com>>
Subject: RE: [TS-520_820_530_830] Re: TS-520 parts
To: "TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>" <TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>>
Date: Monday, November 2, 2009, 7:10 PM

Bill,

Here's a tip for leather straps. Measure the center-to-center hole dimensions. Then go to Antique Electronic Supply (www.tubesandmore. com<http://www.tubesand more.com>). They sell many varieties of leather straps with chrome end caps for guitar amps. You may find one that works.

Greg

KG6YV

From: TS-520_820_530_ 830@yahoogroups. com [mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of loewensteijn@ rocketmail. com

Sent: Monday, November 02, 2009 3:47 PM

To: TS-520_820_530_ 830@yahoogroups. com

Subject: [TS-520_820_ 530_830] Re: TS-520 parts

Bill, cannot help you with those. No longer available.

73, Marinus

--- In TS-520_820_530_ 830@yahoogroups. com<mailto:TS-520_ 820_530_830% 40yahoogroups. com>, "Hartlessone" <billhart_1@ ...> wrote:

>

> is the leather strap and connecting hardware in good condx and if so how much?

> Bill

> billhart_1@. ..

>

> --- In TS-520_820_530_ 830@yahoogroups. com<mailto:TS-520_ 820_530_830% 40yahoogroups. com>, mark helinski <marksbuffalobills@ > wrote:

> >

> > dear 520 group

> > i have a parts rig for 185.00 plus shipping

> > email me at marksbuffalobills@

> > or 712 2541250

> >

> >

> > 2yahoo.com

> >

> > --- On Sun, 11/1/09, Karl Reed <kb1nzq@> wrote:

> >

> >

> > From: Karl Reed <kb1nzq@>

> > Subject: Re: [TS-520_820_ 530_830] TS-520 parts

> > To: TS-520_820_530_ 830@yahoogroups. com<mailto:TS-520_ 820_530_830% 40yahoogroups. com>

> > Date: Sunday, November 1, 2009, 2:23 PM

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> >

> > i could also use the relay mine is starting to stick thanks

> >

> > _____ _____ _____ __

> > From: "loewensteijn@ rocketmail. com" <zl2ml@hotmail. com>

> > To: TS-520_820_530_ 830@yahoogroups. com

> > Sent: Sat, October 31, 2009 9:52:46 PM

> > Subject: [TS-520_820_ 530_830] TS-520 parts

> >

> >

> > I am dismanteling a TS-520. If you have a specific need let me know but cabinet and transformer are not worthwhile shipping (to heavy to make it worthwhile).

> >

> > Marinus, ZL2ML

> >

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> > Do You Yahoo!?

> > Tired of spam? Yahoo! Mail has the best spam protection around

> > http://mail. yahoo.com

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23247. (no subject)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-03 19:43:18 UTC
From: Allan
Topic: 23247 Message: 23247

Thanks Dave this will help the manual did not say what mic it just reffered to (The mic that came with radio) wow I thought funny they did not bother to say what/which mic.

Signed Allan

Click to join NormanOklaGoodBadUgly

[Non-text portions of this message have been removed]

23248. Anyone have a TS-830S for sale near the Metro Philly area???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-03 20:22:51 UTC
From: paharleyguy2001
Topic: 23248 Message: 23248

Hello All,

Does anyone have a TS-830S for sale near the Metro Philly area???

I currently have (and throughly enjoy) a TS-520SE,and I was close to purchashing an 830 but, the guy sold it.

So, I'm asking here if anyone has one of these rigs for sale??

please contact me @ k3fxr at arrl

Thanks all.

Ralph
K3FXR

23249. Extra MC-50 mic stand available (no mic)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-03 22:02:10 UTC
From: aschichler
Topic: 23249 Message: 23249

If anyone needs an MC-50 mic stand, I have an extra one that I will sell cheap. It has the cord that goes from the stand to the mic, but not the cord that goes to the transceiver. Nice condition, slightly yellowed keys.
$10 or make offer.

I can provide photos if needed.

Al, WA2AS

23250. MA Meter on The 520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-03 23:03:53 UTC
From: ki0gv
Topic: 23250 Message: 23250

Mike w5rkl,

After installing N.O.S tubes in my 520S I let them "Burn In" for afew hours. When I tuned them up for the first time, The nuetralization seemed real closed, but the MA meter is reading 270 instead of the 225 normal reading and the power out is about 130 watts. Isn't that to many Miliamps for the tubes to draw during key down, but what can I do to lower the MA'S.

Thanks
ki0gv
Mike

23251. RE: [TS-520_820_530_830] MA Meter on The 520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-03 23:10:54 UTC
From: Greg Anders
Topic: 23250 Message: 23251

Hi Mike,

Its difficult to tell unless we know whether or not you are running into a dummy load or an antenna? Which band? Where is the loading control set? 270ma would be possible to get 130Watts output but I wouldn't run those tubes at that high an output power for long. As a comparison, I load my 520SE to around 220ma on 75 meters into a dummy load with 100 to 105W output. The plate dip with the loading control counterclockwise goes down to just under 200ma with about 85W output at that level. Then I increase loading slightly to get to 220ma and 100W.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of ki0gv
Sent: Tuesday, November 03, 2009 3:04 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] MA Meter on The 520S

Mike w5rkl,

After installing N.O.S tubes in my 520S I let them "Burn In" for afew hours. When I tuned them up for the first time, The nuetralization seemed real closed, but the MA meter is reading 270 instead of the 225 normal reading and the power out is about 130 watts. Isn't that to many Miliamps for the tubes to draw during key down, but what can I do to lower the MA'S.

Thanks
ki0gv
Mike

[Non-text portions of this message have been removed]

23252. Re: [TS-520_820_530_830] Re: TS-520 parts

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-04 00:14:04 UTC
From: mark helinski
Topic: 23210 Message: 23252

dear ts group
i have a whole rig ts520s for sale askin 185.00 plus shipping mark h

--- On Mon, 11/2/09, loewensteijn@... <zl2ml@...m> wrote:

From: loewensteijn@... <zl2ml@...>
Subject: [TS-520_820_530_830] Re: TS-520 parts
To: TS-520_820_530_830@...m
Date: Monday, November 2, 2009, 5:47 PM

Bill, cannot help you with those. No longer available.

73, Marinus

--- In TS-520_820_530_ 830@yahoogroups. com, "Hartlessone" <billhart_1@ ...> wrote:
>
> is the leather strap and connecting hardware in good condx and if so how much?
> Bill
> billhart_1@. ..
>
> --- In TS-520_820_530_ 830@yahoogroups. com, mark helinski <marksbuffalobills@ > wrote:
> >
> > dear 520 group
> > i have a parts rig for 185.00 plus shipping
> > email me at marksbuffalobills@
> > or 712 2541250
> >
> >
> > 2yahoo.com
> >
> > --- On Sun, 11/1/09, Karl Reed <kb1nzq@> wrote:
> >
> >
> > From: Karl Reed <kb1nzq@>
> > Subject: Re: [TS-520_820_ 530_830] TS-520 parts
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Date: Sunday, November 1, 2009, 2:23 PM
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> >
> > i could also use the relay mine is starting to stick thanks
> >
> > _____ _____ _____ __

> > From: "loewensteijn@ rocketmail. com" <zl2ml@hotmail. com>
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Sent: Sat, October 31, 2009 9:52:46 PM
> > Subject: [TS-520_820_ 530_830] TS-520 parts
> >
> >
> > I am dismanteling a TS-520. If you have a specific need let me know but cabinet and transformer are not worthwhile shipping (to heavy to make it worthwhile).
> >
> > Marinus, ZL2ML
> >
> > [Non-text portions of this message have been removed]
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> > _____ _____ _____ _____ _____ __
> > Do You Yahoo!?
> > Tired of spam? Yahoo! Mail has the best spam protection around
> > http://mail. yahoo.com
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> > [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

23253. Re: [TS-520_820_530_830] Extra MC-50 mic stand available (no mic)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-04 01:32:12 UTC
From: Ed Berbari
Topic: 23249 Message: 23253

Al,

Are the PTT and Lock functions working on the stand? I have a good MC-50 but the switches are broken.

Ed, W9EJB

----- Original Message -----
From: aschichler
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 03, 2009 5:02 PM
Subject: [TS-520_820_530_830] Extra MC-50 mic stand available (no mic)

If anyone needs an MC-50 mic stand, I have an extra one that I will sell cheap. It has the cord that goes from the stand to the mic, but not the cord that goes to the transceiver. Nice condition, slightly yellowed keys.
$10 or make offer.

I can provide photos if needed.

Al, WA2AS

[Non-text portions of this message have been removed]

23254. TS-830s issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-04 03:42:45 UTC
From: ron.levine
Topic: 23254 Message: 23254

Greetings all,

After a lot of work on my radio, I am at a point where I need help.

First off, it powers up and is able to recieve. I tuned to 10.000 and was able to hear the clock thingy.

I have replaced the tubes in the radio. The fellow I got it from said that he pulled the radio out of service due to bad finals. I have replaced them and the driver tube as well at this point.

Someone at some point in the past also did some "mods" to the radio which have been undone as well. Note: I could not find any recognized Mod for this radio that required the changes that were made.

Anyways, at this point, using k4eaa's tuning proceedures, I get a big fat zip. I set the following:

Mode: tune
CAR: 5/8ths or so
LOAD: minimum
BAND: 28 (only a tech so far don't want to broadcast outside my range)
Tuner: 28.300
Meter: ALC

When I flip the SEND switch, I get no reading on the meter and I get nothing on my SWR/Power meter that I have inline with my antenna.
Tried moving the Drive, per instructions, nothing. Tried maxing the CAR control, also nothing.

The switch on the back was tried in both positions also tried rotating the pots as well.

I am at a loss at this point. Anyone have any ideas?

With regards and 73's
KF7AYS

23255. Re: [TS-520_820_530_830] TS-830s issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-04 04:08:21 UTC
From: amfone
Topic: 23254 Message: 23255

Sorry to say but it sounds like a CB'er got a hold of this rig. Have you checked to see if the correct crystals are in the radio and not those for 11 meters?

From: ron.levine <levine.ron@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tue, November 3, 2009 10:42:45 PM
Subject: [TS-520_820_530_830] TS-830s issues

Greetings all,

After a lot of work on my radio, I am at a point where I need help.

First off, it powers up and is able to recieve. I tuned to 10.000 and was able to hear the clock thingy.

I have replaced the tubes in the radio. The fellow I got it from said that he pulled the radio out of service due to bad finals. I have replaced them and the driver tube as well at this point.

Someone at some point in the past also did some "mods" to the radio which have been undone as well. Note: I could not find any recognized Mod for this radio that required the changes that were made.

Anyways, at this point, using k4eaa's tuning proceedures, I get a big fat zip. I set the following:

Mode: tune
CAR: 5/8ths or so
LOAD: minimum
BAND: 28 (only a tech so far don't want to broadcast outside my range)
Tuner: 28.300
Meter: ALC

When I flip the SEND switch, I get no reading on the meter and I get nothing on my SWR/Power meter that I have inline with my antenna.
Tried moving the Drive, per instructions, nothing. Tried maxing the CAR control, also nothing.

The switch on the back was tried in both positions also tried rotating the pots as well.

I am at a loss at this point. Anyone have any ideas?

With regards and 73's
KF7AYS

[Non-text portions of this message have been removed]

23256. Re: TS-830s issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-04 04:31:15 UTC
From: ah6rr1
Topic: 23254 Message: 23256

First try the Load at 12 o'clock if that is not it check the HV turn the meter to read HV then put it in send should be 800+ volts. If not it needs the HV caps replaced. Since the 830 is a PLL radio not cyrstal control it only has 2 for IF refernce USB/CW & LSB. Another check is put the radio in SSB the meter to IP hit send do you get any reading on the meter? if not the HV section needs looking at.
Keep us posted
Roland AH6RR

--- In TS-520_820_530_830@yahoogroups.com, amfone <amfone20000@...> wrote:
>
> Sorry to say but it sounds like a CB'er got a hold of this rig. Have you checked to see if the correct crystals are in the radio and not those for 11 meters?
>
>
>
>
> _____
> From: ron.levine <levine.ron@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tue, November 3, 2009 10:42:45 PM
> Subject: [TS-520_820_530_830] TS-830s issues
>
>
> Greetings all,
>
> After a lot of work on my radio, I am at a point where I need help.
>
> First off, it powers up and is able to recieve. I tuned to 10.000 and was able to hear the clock thingy.
>
> I have replaced the tubes in the radio. The fellow I got it from said that he pulled the radio out of service due to bad finals. I have replaced them and the driver tube as well at this point.
>
> Someone at some point in the past also did some "mods" to the radio which have been undone as well. Note: I could not find any recognized Mod for this radio that required the changes that were made.
>
> Anyways, at this point, using k4eaa's tuning proceedures, I get a big fat zip. I set the following:
>
> Mode: tune
> CAR: 5/8ths or so
> LOAD: minimum
> BAND: 28 (only a tech so far don't want to broadcast outside my range)

> Tuner: 28.300
> Meter: ALC
>
> When I flip the SEND switch, I get no reading on the meter and I get nothing on my SWR/Power meter that I have inline with my antenna.
> Tried moving the Drive, per instructions, nothing. Tried maxing the CAR control, also nothing.
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> The switch on the back was tried in both positions also tried rotating the pots as well.
>
> I am at a loss at this point. Anyone have any ideas?
>
> With regards and 73's
> KF7AYS
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> [Non-text portions of this message have been removed]
>

23257. Re: MA Meter on The 520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-04 12:16:04 UTC
From: w5rkl
Topic: 23250 Message: 23257

Hello Mike,

Greag has covered it quite well.

I wonder what you meant by

"I let them "Burn In" for a few hours"

when referencing the driver and final tubes.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "ki0gv" <ki0gv@...> wrote:
>
> Mike w5rkl,
>
> After installing N.O.S tubes in my 520S I let them "Burn In" for afew hours. When I tuned them up for the first time, The nuetralization seemed real closed, but the MA meter is reading 270 instead of the 225 normal reading and the power out is about 130 watts.
> Isn't that to many Miliamps for the tubes to draw during key down, but what can I do to lower the MA'S.
>
> Thanks
> ki0gv
> Mike
>

23258. Re: TS-830s issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-04 04:19:32 UTC
From: ron.levine
Topic: 23254 Message: 23258

No, I havent. however, using my dummy load, I have tried other bands and no luck.

--- In TS-520_820_530_830@yahoogroups.com, amfone <amfone20000@...> wrote:
>
> Sorry to say but it sounds like a CB'er got a hold of this rig. Have you checked to see if the correct crystals are in the radio and not those for 11 meters?
>
>
>
>
> _____
> From: ron.levine <levine.ron@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tue, November 3, 2009 10:42:45 PM
> Subject: [TS-520_820_530_830] TS-830s issues
>
>
> Greetings all,
>
> After a lot of work on my radio, I am at a point where I need help.
>
> First off, it powers up and is able to recieve. I tuned to 10.000 and was able to hear the clock thingy.
>
> I have replaced the tubes in the radio. The fellow I got it from said that he pulled the radio out of service due to bad finals. I have replaced them and the driver tube as well at this point.
>
> Someone at some point in the past also did some "mods" to the radio which have been undone as well. Note: I could not find any recognized Mod for this radio that required the changes that were made.
>
> Anyways, at this point, using k4eaa's tuning proceedures, I get a big fat zip. I set the following:
>
> Mode: tune
> CAR: 5/8ths or so
> LOAD: minimum
> BAND: 28 (only a tech so far don't want to broadcast outside my range)
> Tuner: 28.300
> Meter: ALC
>
> When I flip the SEND switch, I get no reading on the meter and I get nothing on my SWR/Power meter that I have inline with my antenna.
> Tried moving the Drive, per instructions, nothing. Tried maxing the CAR control, also

nothing.
>
> The switch on the back was tried in both positions also tried rotating the pots as well.
>
> I am at a loss at this point. Anyone have any ideas?
>
> With regards and 73's
> KF7AYS
>
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

23259. Re: TS-830s issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-04 04:37:40 UTC
From: ron.levine
Topic: 23254 Message: 23259

The voltage at the tops of the final tubes is right at 953v.

The Load setting does not seem to have any affect.

Ron KF7AYS

--- In TS-520_820_530_830@yahoogroups.com, "ah6rr1" <ah6rr@...> wrote:
>
> First try the Load at 12 o'clock if that is not it check the HV turn the meter to read HV then put it in send should be 800+ volts. If not it needs the HV caps replaced. Since the 830 is a PLL radio not cyrstal control it only has 2 for IF refernce USB/CW & LSB. Another check is put the radio in SSB the meter to IP hit send do you get any reading on the meter? if not the HV section needs looking at.
> Keep us posted
> Roland AH6RR
>
> --- In TS-520_820_530_830@yahoogroups.com, amfone <amfone20000@> wrote:
> >
> > Sorry to say but it sounds like a CB'er got a hold of this rig. Have you checked to see if the correct crystals are in the radio and not those for 11 meters?
> >
> >
> >
> >
> > _____
> > From: ron.levine <levine.ron@>
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Tue, November 3, 2009 10:42:45 PM
> > Subject: [TS-520_820_530_830] TS-830s issues
> >
> >
> > Greetings all,
> >
> > After a lot of work on my radio, I am at a point where I need help.
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> > First off, it powers up and is able to recieve. I tuned to 10.000 and was able to hear the clock thingy.
> >
> > I have replaced the tubes in the radio. The fellow I got it from said that he pulled the radio out of service due to bad finals. I have replaced them and the driver tube as well at this point.
> >
> > Someone at some point in the past also did some "mods" to the radio which have been undone as well. Note: I could not find any recognized Mod for this radio that required the changes that were made.
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> > Anyways, at this point, using k4eaa's tuning proceedures, I get a big fat zip. I set the following:
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> > CAR: 5/8ths or so
> > LOAD: minimum
> > BAND: 28 (only a tech so far don't want to broadcast outside my range)
> > Tuner: 28.300
> > Meter: ALC
> >
> > When I flip the SEND switch, I get no reading on the meter and I get nothing on my SWR/Power meter that I have inline with my antenna.
> > Tried moving the Drive, per instructions, nothing. Tried maxing the CAR control, also nothing.
> >
> > The switch on the back was tried in both positions also tried rotating the pots as well.
> >
> > I am at a loss at this point. Anyone have any ideas?
> >
> > With regards and 73's
> > KF7AYS
> >
> >
> >
> >
> >
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> >
> > [Non-text portions of this message have been removed]
> >
>

23260. Re: [TS-520_820_530_830] TS-830s issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-04 16:26:37 UTC
From: Nathan Fowler
Topic: 23254 Message: 23260

Potentially a stupid question, so take no insult from it, but do you have CW key or a shorted key attached to the CW key jack on the back of the 830?

73 - Nathan/KJ4AUR

--- On Wed, 11/4/09, ron.levine <levine.ron@...> wrote:

From: ron.levine <levine.ron@...>
Subject: [TS-520_820_530_830] TS-830s issues
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, November 4, 2009, 3:42 AM

Greetings all,

After a lot of work on my radio, I am at a point where I need help.

First off, it powers up and is able to recieve. I tuned to 10.000 and was able to hear the clock thingy.

I have replaced the tubes in the radio. The fellow I got it from said that he pulled the radio out of service due to bad finals. I have replaced them and the driver tube as well at this point.

Someone at some point in the past also did some "mods" to the radio which have been undone as well. Note: I could not find any recognized Mod for this radio that required the changes that were made.

Anyways, at this point, using k4eaa's tuning proceedures, I get a big fat zip. I set the following:

Mode: tune

CAR: 5/8ths or so

LOAD: minimum

BAND: 28 (only a tech so far don't want to broadcast outside my range)

Tuner: 28.300

Meter: ALC

When I flip the SEND switch, I get no reading on the meter and I get nothing on my SWR/Power meter that I have inline with my antenna.

Tried moving the Drive, per instructions, nothing. Tried maxing the CAR control, also nothing.

The switch on the back was tried in both positions also tried rotating the pots as well.

I am at a loss at this point. Anyone have any ideas?

With regards and 73's

KF7AYS

[Non-text portions of this message have been removed]

23261. Re: TS-830s issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-04 16:51:10 UTC
From: ah6rr1
Topic: 23254 Message: 23261

Hook the radio to the Dummy load and check the voltage in transmit it should drop to 800+ volts. If it does not then you are not getting any drive, check the resistors on the final board R2-5 they are 20ohm 1/2 watt. If they are ok check pin 7 on the driver tube for voltage 330+ RX 290+ TX. Also check pin 3 on the final tubes for 250V+/- RX 220+/- TX.
Roland AH6RR

--- In TS-520_820_530_830@yahoogroups.com, "ron.levine" <levine.ron@...> wrote:
>
> The voltage at the tops of the final tubes is right at 953v.
>
> The Load setting does not seem to have any affect.
>
> Ron KF7AYS
>
> --- In TS-520_820_530_830@yahoogroups.com, "ah6rr1" <ah6rr@> wrote:
> >
> > First try the Load at 12 o'clock if that is not it check the HV turn the meter to read HV then put it in send should be 800+ volts. If not it needs the HV caps replaced. Since the 830 is a PLL radio not cyrstal control it only has 2 for IF refernce USB/CW & LSB. Another check is put the radio in SSB the meter to IP hit send do you get any reading on the meter? if not the HV section needs looking at.
> > Keep us posted
> > Roland AH6RR
> >
> > --- In TS-520_820_530_830@yahoogroups.com, amfone <amfone20000@> wrote:
> > >
> > > Sorry to say but it sounds like a CB'er got a hold of this rig. Have you checked to see if the correct crystals are in the radio and not those for 11 meters?
> > >
> > >
> > >
> > >
> > > _____
> > > From: ron.levine <levine.ron@>
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Sent: Tue, November 3, 2009 10:42:45 PM
> > > Subject: [TS-520_820_530_830] TS-830s issues
> > >
> > >
> > > Greetings all,
> > >
> > > After a lot of work on my radio, I am at a point where I need help.
> > >
> > > First off, it powers up and is able to recieve. I tuned to 10.000 and was able to hear the clock thingy.

> > >
> > > I have replaced the tubes in the radio. The fellow I got it from said that he pulled the radio out of service due to bad finals. I have replaced them and the driver tube as well at this point.
> > >
> > > Someone at some point in the past also did some "mods" to the radio which have been undone as well. Note: I could not find any recognized Mod for this radio that required the changes that were made.
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> > > Anyways, at this point, using k4eaa's tuning proceedures, I get a big fat zip. I set the following:
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> > > Mode: tune
> > > CAR: 5/8ths or so
> > > LOAD: minimum
> > > BAND: 28 (only a tech so far don't want to broadcast outside my range)
> > > Tuner: 28.300
> > > Meter: ALC
> > >
> > > When I flip the SEND switch, I get no reading on the meter and I get nothing on my SWR/Power meter that I have inline with my antenna.
> > > Tried moving the Drive, per instructions, nothing. Tried maxing the CAR control, also nothing.
> > >
> > > The switch on the back was tried in both positions also tried rotating the pots as well.
> > >
> > > I am at a loss at this point. Anyone have any ideas?
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> > > With regards and 73's
> > > KF7AYS
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> > >
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> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
>

23262. Re: TS-830s issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-04 17:05:12 UTC
From: w5rkl
Topic: 23254 Message: 23262

--- In TS-520_820_530_830@yahoogroups.com, "ron.levine" <levine.ron@...> wrote:
>
> Greetings all,
>
> After a lot of work on my radio, I am at a point where I need help.
>
> First off, it powers up and is able to recieve. I tuned to 10.000 and was able to hear the clock thingy.
>
> I have replaced the tubes in the radio. The fellow I got it from said that he pulled the radio out of service due to bad finals. I have replaced them and the driver tube as well at this point.

What reason did the previous owner give to indicate the final tubes were bad and needed replacing?

>
> Someone at some point in the past also did some "mods" to the radio which have been undone as well. Note: I could not find any recognized Mod for this radio that required the changes that were made.
>
> Anyways, at this point, using k4eaa's tuning proceedures, I get a big fat zip. I set the following:
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> Mode: tune
> CAR: 5/8ths or so
> LOAD: minimum
> BAND: 28 (only a tech so far don't want to broadcast outside my range)
> Tuner: 28.300
> Meter: ALC
>
> When I flip the SEND switch, I get no reading on the meter and I get nothing on my SWR/Power meter that I have inline with my antenna.
> Tried moving the Drive, per instructions, nothing. Tried maxing the CAR control, also nothing.

The test result you provided is for one band ONLY which is insufficient to determine the complete health of the 830.

I suggest connecting the 830 to a dummy load and perform addition transmitter output tests on ALL bands. The results obtained will provide a much better indication of the overall health of the 830.

>
> The switch on the back was tried in both positions also tried rotating the pots as well.

The only switch on the 830's rear panel is the "SG" switch located below the fan. This does NOT include the micro switch embedded in the VFO DIN socket. A failure in the micro switch on the VFO DIN socket will result in a blank, dark, digital display.

>
> I am at a loss at this point. Anyone have any ideas?

I do not see where you have checked the final tube cathode resistors, R2 thru R5, unless I missed it in a previous post. Have you checked R2 thru R5?

>
> With regards and 73's
> KF7AYS
>

23263. Re: [TS-520_820_530_830] TS-830s issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-04 18:12:50 UTC
From: martin
Topic: 23254 Message: 23263

Hi Ron. Try this first. With the radio connected to a dummy load, set the frequency to 28.400. Turn on the calibrator. You should hear a whine. If not, tune up or down slightly until you do. Adjust the Drive control for maximum meter reading. Turn off the calibrator.

Set the meter switch to ALC. Set mode switch to the Tune position and the CAR control to about 9 o'clock. Key the radio with the Send/REC switch, and see if you get any ALC reading. If not, turn up the CAR control and see if that helps. Do NOT leave the radio keyed for more than 10 seconds at a time!

Let us know what your results are.

TTYL

ron.levine wrote:
> Greetings all,
>
> After a lot of work on my radio, I am at a point where I need help.
>
>
> First off, it powers up and is able to recieve. I tuned to 10.000
> and was able to hear the clock thingy.
>
> I have replaced the tubes in the radio. The fellow I got it from
> said that he pulled the radio out of service due to bad finals. I
> have replaced them and the driver tube as well at this point.
>
> Someone at some point in the past also did some "mods" to the radio
> which have been undone as well. Note: I could not find any
> recognized Mod for this radio that required the changes that were
> made.
>
> Anyways, at this point, using k4eaa's tuning proceedures, I get a
> big fat zip. I set the following:
>
> Mode: tune CAR: 5/8ths or so LOAD: minimum BAND: 28 (only a tech so
> far don't want to broadcast outside my range) Tuner: 28.300 Meter:
> ALC
>
> When I flip the SEND switch, I get no reading on the meter and I
> get nothing on my SWR/Power meter that I have inline with my
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> maxing the CAR control, also nothing.
>
> The switch on the back was tried in both positions also tried

> rotating the pots as well.
>
> I am at a loss at this point. Anyone have any ideas?
>
> With regards and 73's KF7AYS
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

23264. Re: TS-830s issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-04 18:43:25 UTC
From: ron.levine
Topic: 23254 Message: 23264

No reason given for the tubes being bad.
Test results are the same on all bands.
Resistors tested and good.

Thanks again,
Ron

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "ron.levine" <levine.ron@> wrote:
> >
> > Greetings all,
> >
> > After a lot of work on my radio, I am at a point where I need help.
> >
> > First off, it powers up and is able to recieve. I tuned to 10.000 and was able to hear the clock thingy.
> >
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>
>
>
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> > Tuner: 28.300
> > Meter: ALC
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> I do not see where you have checked the final tube cathode resistors, R2 thru R5, unless I missed it in a previous post. Have you checked R2 thru R5?
>
>
>
> >
> > With regards and 73's
> > KF7AYS
> >
>

23265. Re: TS-830s issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-04 18:44:31 UTC
From: ron.levine
Topic: 23254 Message: 23265

How do I get to the pin on the driver tube? There is no access under the board.

Thanks
Ron

--- In TS-520_820_530_830@yahoogroups.com, "ah6rr1" <ah6rr@...> wrote:
>
> Hook the radio to the Dummy load and check the voltage in transmit it should drop to 800+ volts. If it does not then you are not getting any drive, check the resistors on the final board R2-5 they are 20ohm 1/2 watt. If they are ok check pin 7 on the driver tube for voltage 330+ RX 290+ TX. Also check pin 3 on the final tubes for 250V+/- RX 220+/- TX.
> Roland AH6RR
>
> --- In TS-520_820_530_830@yahoogroups.com, "ron.levine" <levine.ron@> wrote:
> >
> > The voltage at the tops of the final tubes is right at 953v.
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> > The Load setting does not seem to have any affect.
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> > Ron KF7AYS
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> > --- In TS-520_820_530_830@yahoogroups.com, "ah6rr1" <ah6rr@> wrote:
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> > > Keep us posted
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> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, amfone <amfone20000@> wrote:
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> > > > Sorry to say but it sounds like a CB'er got a hold of this rig. Have you checked to see if the correct crystals are in the radio and not those for 11 meters?
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> > > >
> > > >
> > > > _____
> > > > From: ron.levine <levine.ron@>
> > > > To: TS-520_820_530_830@yahoogroups.com
> > > > Sent: Tue, November 3, 2009 10:42:45 PM
> > > > Subject: [TS-520_820_530_830] TS-830s issues
> > > >

> > > >
> > > > Greetings all,
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> > > > LOAD: minimum
> > > > BAND: 28 (only a tech so far don't want to broadcast outside my range)
> > > > Tuner: 28.300
> > > > Meter: ALC
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> > > >
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > >
> >
>

23266. Re: TS-830s issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-04 18:41:15 UTC
From: ron.levine
Topic: 23254 Message: 23266

Um, what calibrator???

--- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@...> wrote:
>
> Hi Ron. Try this first. With the radio connected to a dummy load,
> set the frequency to 28.400. Turn on the calibrator. You should hear
> a whine. If not, tune up or down slightly until you do. Adjust the
> Drive control for maximum meter reading. Turn off the calibrator.
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> Set the meter switch to ALC. Set mode switch to the Tune position and
> the CAR control to about 9 o'clock. Key the radio with the Send/REC
> switch, and see if you get any ALC reading. If not, turn up the CAR
> control and see if that helps. Do NOT leave the radio keyed for more
> than 10 seconds at a time!
>
> Let us know what your results are.
>
> TTYL
>
> ron.levine wrote:
> > Greetings all,
> >
> > After a lot of work on my radio, I am at a point where I need help.
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> >
> >
>
> --
> CUL8R
>
> KBOHAE kb0hae@... Martin Campbell
>
> A Satisfied Sidux Linux user! To get Sidux go to:
> www.sidux.com/index.html
> "Protect your digital freedom and privacy, eliminate DRM, learn more
> at http://www.defectivebydesign.org/what_is_drm"
>

23267. Re: TS-830s issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-04 18:45:26 UTC
From: ron.levine
Topic: 23254 Message: 23267

No, I do not. The tuning instructions make no mention of using one.

Thanks
Ron

--- In TS-520_820_530_830@yahoogroups.com, Nathan Fowler <kj4aur@...> wrote:
>
> Potentially a stupid question, so take no insult from it, but do you have CW key or a shorted key attached to the CW key jack on the back of the 830?
>
> 73 - Nathan/KJ4AUR
>
> --- On Wed, 11/4/09, ron.levine <levine.ron@...> wrote:
>
> From: ron.levine <levine.ron@...>
> Subject: [TS-520_820_530_830] TS-830s issues
> To: TS-520_820_530_830@yahoogroups.com
> Date: Wednesday, November 4, 2009, 3:42 AM
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> Greetings all,
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> After a lot of work on my radio, I am at a point where I need help.
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> First off, it powers up and is able to recieve. I tuned to 10.000 and was able to hear the clock thingy.
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> I have replaced the tubes in the radio. The fellow I got it from said that he pulled the radio out of service due to bad finals. I have replaced them and the driver tube as well at

this point.
>
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> Someone at some point in the past also did some "mods" to the radio which have been undone as well. Note: I could not find any recognized Mod for this radio that required the changes that were made.
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> Anyways, at this point, using k4eaa's tuning proceedures, I get a big fat zip. I set the following:
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> Mode: tune
>
> CAR: 5/8ths or so
>
> LOAD: minimum
>
> BAND: 28 (only a tech so far don't want to broadcast outside my range)
>
> Tuner: 28.300
>
> Meter: ALC
>
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> When I flip the SEND switch, I get no reading on the meter and I get nothing on my SWR/Power meter that I have inline with my antenna.
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> Tried moving the Drive, per instructions, nothing. Tried maxing the CAR control, also nothing.
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> The switch on the back was tried in both positions also tried rotating the pots as well.
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> I am at a loss at this point. Anyone have any ideas?
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> With regards and 73's
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> KF7AYS
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> [Non-text portions of this message have been removed]
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23268. Re: TS-830s issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-04 20:01:02 UTC
From: ah6rr1
Topic: 23254 Message: 23268

Pull the tube then test for the voltage. test the voltages on the rectfier board. Do you have a service manual? if not you should be able to download one from the user group page. the calibrator is the mic gain turned all the way left until it clicks.
Roland AH6RR

--- In TS-520_820_530_830@yahoogroups.com, "ron.levine" <levine.ron@...> wrote:
>
> How do I get to the pin on the driver tube? There is no access under the board.
>
> Thanks
> Ron
>
> --- In TS-520_820_530_830@yahoogroups.com, "ah6rr1" <ah6rr@> wrote:
> >
> > Hook the radio to the Dummy load and check the voltage in transmit it should drop to 800+ volts. If it does not then you are not getting any drive, check the resistors on the final board R2-5 they are 20ohm 1/2 watt. If they are ok check pin 7 on the driver tube for voltage 330+ RX 290+ TX. Also check pin 3 on the final tubes for 250V+/- RX 220+/- TX.
> > Roland AH6RR
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "ron.levine" <levine.ron@> wrote:
> > >
> > > The voltage at the tops of the final tubes is right at 953v.
> > >
> > > The Load setting does not seem to have any affect.
> > >
> > > Ron KF7AYS
> > >
> > > --- In TS-520_820_530_830@...m, "ah6rr1" <ah6rr@> wrote:
> > > >
> > > > First try the Load at 12 o'clock if that is not it check the HV turn the meter to read HV then put it in send should be 800+ volts. If not it needs the HV caps replaced. Since the 830 is a PLL radio not cyrstal control it only has 2 for IF refernce USB/CW & LSB. Another check is put the radio in SSB the meter to IP hit send do you get any reading on the meter? if not the HV section needs looking at.
> > > > Keep us posted
> > > > Roland AH6RR
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, amfone <amfone20000@> wrote:
> > > > >
> > > > > Sorry to say but it sounds like a CB'er got a hold of this rig. Have you checked to see if the correct crystals are in the radio and not those for 11 meters?
> > > > >
> > > > >
> > > > >

> > > > >
> > > > > _____
> > > > > From: ron.levine <levine.ron@>
> > > > > To: TS-520_820_530_830@yahoogroups.com
> > > > > Sent: Tue, November 3, 2009 10:42:45 PM
> > > > > Subject: [TS-520_820_530_830] TS-830s issues
> > > > >
> > > > >
> > > > > Greetings all,
> > > > >
> > > > > After a lot of work on my radio, I am at a point where I need help.
> > > > >
> > > > > First off, it powers up and is able to recieve. I tuned to 10.000 and was able to hear the clock thingy.
> > > > >
> > > > > I have replaced the tubes in the radio. The fellow I got it from said that he pulled the radio out of service due to bad finals. I have replaced them and the driver tube as well at this point.
> > > > >
> > > > > Someone at some point in the past also did some "mods" to the radio which have been undone as well. Note: I could not find any recognized Mod for this radio that required the changes that were made.
> > > > >
> > > > > Anyways, at this point, using k4eaa's tuning proceedures, I get a big fat zip. I set the following:
> > > > >
> > > > > Mode: tune
> > > > > CAR: 5/8ths or so
> > > > > LOAD: minimum
> > > > > BAND: 28 (only a tech so far don't want to broadcast outside my range)
> > > > > Tuner: 28.300
> > > > > Meter: ALC
> > > > >
> > > > > When I flip the SEND switch, I get no reading on the meter and I get nothing on my SWR/Power meter that I have inline with my antenna.
> > > > > Tried moving the Drive, per instructions, nothing. Tried maxing the CAR control, also nothing.
> > > > >
> > > > > The switch on the back was tried in both positions also tried rotating the pots as well.
> > > > >
> > > > > I am at a loss at this point. Anyone have any ideas?
> > > > >
> > > > > With regards and 73's
> > > > > KF7AYS
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> > > > > [Non-text portions of this message have been removed]
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23269. Re: Need some antenna help.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-04 20:03:17 UTC
From: ke5ofo
Topic: 23201 Message: 23269

Thanks for your opinions guys. It looks like right now I will be going with the Hustler 6btv. It looks like this one will work out nicely with both the 520 and my K2 qrp rig.

Kerry
KE5OFO - Weatherford OK.

23270. Re: TS-830s issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-04 20:05:45 UTC
From: ah6rr1
Topic: 23254 Message: 23270

You can download the manual here
http://www.n6wk.com/kenwood/TS-830S-Service-High%20Resolution.pdf

--- In TS-520_820_530_830@yahoogroups.com, "ron.levine" <levine.ron@...> wrote:
>
> How do I get to the pin on the driver tube? There is no access under the board.
>
> Thanks
> Ron
>
> --- In TS-520_820_530_830@yahoogroups.com, "ah6rr1" <ah6rr@> wrote:
> >
> > Hook the radio to the Dummy load and check the voltage in transmit it should drop to 800+ volts. If it does not then you are not getting any drive, check the resistors on the final board R2-5 they are 20ohm 1/2 watt. If they are ok check pin 7 on the driver tube for voltage 330+ RX 290+ TX. Also check pin 3 on the final tubes for 250V+/- RX 220+/- TX.
> > Roland AH6RR
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "ron.levine" <levine.ron@> wrote:
> > >
> > > The voltage at the tops of the final tubes is right at 953v.
> > >
> > > The Load setting does not seem to have any affect.
> > >
> > > Ron KF7AYS
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "ah6rr1" <ah6rr@> wrote:
> > > >
> > > > First try the Load at 12 o'clock if that is not it check the HV turn the meter to read HV then put it in send should be 800+ volts. If not it needs the HV caps replaced. Since the 830 is a PLL radio not cyrstal control it only has 2 for IF refernce USB/CW & LSB. Another check is put the radio in SSB the meter to IP hit send do you get any reading on the meter? if not the HV section needs looking at.
> > > > Keep us posted
> > > > Roland AH6RR
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, amfone <amfone20000@> wrote:
> > > > >
> > > > > Sorry to say but it sounds like a CB'er got a hold of this rig. Have you checked to see if the correct crystals are in the radio and not those for 11 meters?
> > > > >
> > > > >
> > > > >
> > > > >
> > > > > _____

> > > > > From: ron.levine <levine.ron@>
> > > > > To: TS-520_820_530_830@yahoogroups.com
> > > > > Sent: Tue, November 3, 2009 10:42:45 PM
> > > > > Subject: [TS-520_820_530_830] TS-830s issues
> > > > >
> > > > >
> > > > > Greetings all,
> > > > >
> > > > > After a lot of work on my radio, I am at a point where I need help.
> > > > >
> > > > > First off, it powers up and is able to recieve. I tuned to 10.000 and was able to hear the clock thingy.
> > > > >
> > > > > I have replaced the tubes in the radio. The fellow I got it from said that he pulled the radio out of service due to bad finals. I have replaced them and the driver tube as well at this point.
> > > > >
> > > > > Someone at some point in the past also did some "mods" to the radio which have been undone as well. Note: I could not find any recognized Mod for this radio that required the changes that were made.
> > > > >
> > > > > Anyways, at this point, using k4eaa's tuning proceedures, I get a big fat zip. I set the following:
> > > > >
> > > > > Mode: tune
> > > > > CAR: 5/8ths or so
> > > > > LOAD: minimum
> > > > > BAND: 28 (only a tech so far don't want to broadcast outside my range)
> > > > > Tuner: 28.300
> > > > > Meter: ALC
> > > > >
> > > > > When I flip the SEND switch, I get no reading on the meter and I get nothing on my SWR/Power meter that I have inline with my antenna.
> > > > > Tried moving the Drive, per instructions, nothing. Tried maxing the CAR control, also nothing.
> > > > >
> > > > > The switch on the back was tried in both positions also tried rotating the pots as well.
> > > > >
> > > > > I am at a loss at this point. Anyone have any ideas?
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> > > > > With regards and 73's
> > > > > KF7AYS
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> > > > > [Non-text portions of this message have been removed]
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23271. Re: TS-830s issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-04 20:36:01 UTC
From: kj4aur
Topic: 23254 Message: 23271

I suspect that's MAY be issue there, I too use Ken's tuning instructions, and I've always had to use one when tuning else there is no transmission. Using 1/4" mono jack shorted tip to shield, I don't do CW.

Always had to do that with the mode setting in CW to set IP and LOAD to ~225mA after dipping the plate and peaking the ALC in TUNE mode.

Honestly, never tried it without the shorted key attached in TUNE mode. Not sure if it's even required, I'm reading the 830 manual there and I don't see it mentioned, only during the CW mode setting.

Are you able to see/set the bias to 60mA too?

Here's a great place for manuals, http://www.n6wk.com/kenwood/

--- In TS-520_820_530_830@yahoogroups.com, "ron.levine" <levine.ron@...> wrote:
>
> No, I do not. The tuning instructions make no mention of using one.
>
> Thanks
> Ron
>
> --- In TS-520_820_530_830@yahoogroups.com, Nathan Fowler <kj4aur@> wrote:
> >
> > Potentially a stupid question, so take no insult from it, but do you have CW key or a shorted key attached to the CW key jack on the back of the 830?
> >
> > 73 - Nathan/KJ4AUR
> >
> > --- On Wed, 11/4/09, ron.levine <levine.ron@> wrote:
> >
> > From: ron.levine <levine.ron@>
> > Subject: [TS-520_820_530_830] TS-830s issues
> > To: TS-520_820_530_830@yahoogroups.com
> > Date: Wednesday, November 4, 2009, 3:42 AM
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> > [Non-text portions of this message have been removed]
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23272. K4EAA

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-04 20:21:20 UTC
From: Steve
Topic: 20248 Message: 23272

Has anyone heard from Ken. I have been trying to contact him through email for a couple months and have not gotten a reply. I wanted him to go through my 830 for me.

Steve.....N3GOV

23273. Re: TS-830s issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-04 20:28:48 UTC
From: va3pen
Topic: 23254 Message: 23273

Sometimes the ALC meter does not move even with the CAR set to the maximum especially on 10m band. It seems to be an indication of a weak drive tube.

This is what I would try if you have not done this yet:
Set the meter to IP. TUNE and see if the meter moves (up to somewhere between 60mA and 120mA?). If so, try to dip it using PLATE. Set the meter to RF and TUNE to see if you have any output. Use DRIVE and LOAD in any order to see if you can maximize the output.

- Ki

--- In TS-520_820_530_830@yahoogroups.com, "ron.levine" <levine.ron@...> wrote:
>
> No, I do not. The tuning instructions make no mention of using one.
>
> Thanks
> Ron
>
> --- In TS-520_820_530_830@yahoogroups.com, Nathan Fowler <kj4aur@> wrote:
> >
> > Potentially a stupid question, so take no insult from it, but do you have CW key or a shorted key attached to the CW key jack on the back of the 830?
> >
> > 73 - Nathan/KJ4AUR
> >
> > --- On Wed, 11/4/09, ron.levine <levine.ron@> wrote:
> >
> > From: ron.levine <levine.ron@>
> > Subject: [TS-520_820_530_830] TS-830s issues
> > To: TS-520_820_530_830@yahoogroups.com
> > Date: Wednesday, November 4, 2009, 3:42 AM
> >
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> > Greetings all,
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> > Mode: tune
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> > CAR: 5/8ths or so
> >
> > LOAD: minimum
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> > BAND: 28 (only a tech so far don't want to broadcast outside my range)
> >
> > Tuner: 28.300
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> > Meter: ALC
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> > [Non-text portions of this message have been removed]
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23274. Re: TS-830s issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-04 20:42:29 UTC
From: ron.levine
Topic: 23254 Message: 23274

I did this, no result. Going to pull the driver tube and test for voltages next.

--- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@...> wrote:
>
> Hi Ron. Try this first. With the radio connected to a dummy load,
> set the frequency to 28.400. Turn on the calibrator. You should hear
> a whine. If not, tune up or down slightly until you do. Adjust the
> Drive control for maximum meter reading. Turn off the calibrator.
>
> Set the meter switch to ALC. Set mode switch to the Tune position and
> the CAR control to about 9 o'clock. Key the radio with the Send/REC
> switch, and see if you get any ALC reading. If not, turn up the CAR
> control and see if that helps. Do NOT leave the radio keyed for more
> than 10 seconds at a time!
>
> Let us know what your results are.
>
> TTYL
>
> ron.levine wrote:
> > Greetings all,
> >
> > After a lot of work on my radio, I am at a point where I need help.
> >
> >
> > First off, it powers up and is able to recieve. I tuned to 10.000
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> >
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> > ALC
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> > maxing the CAR control, also nothing.
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> > The switch on the back was tried in both positions also tried
> > rotating the pots as well.
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> > I am at a loss at this point. Anyone have any ideas?
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> > With regards and 73's KF7AYS
> >
> >
>
> --
> CUL8R
>
> KBOHAE kb0hae@... Martin Campbell
>
> A Satisfied Sidux Linux user! To get Sidux go to:
> www.sidux.com/index.html
> "Protect your digital freedom and privacy, eliminate DRM, learn more
> at http://www.defectivebydesign.org/what_is_drm"
>

23275. Re: TS-830s issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-04 20:51:01 UTC
From: ron.levine
Topic: 23254 Message: 23275

Ok, the driver tube voltages are as follows:

1: 0.0
2: 250.6
3: 344.9
4: 0.0
5: 0.0
6: 0.0
7: 0.0
8: -48.8
9: 0.0
Center: 0.0

23276. RE: [TS-520_820_530_830] K4EAA

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-04 22:10:11 UTC
From: Dick Merryman
Topic: 20248 Message: 23276

Are you using the correct e-mail address, ken@...? I've messaged with
him several times in the last two weeks.

-Dick-
N3XRU

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Steve
Sent: Wednesday, November 04, 2009 12:21 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] K4EAA

Has anyone heard from Ken. I have been trying to contact him through email
for a couple months and have not gotten a reply. I wanted him to go through
my 830 for me.

Steve.....N3GOV

[Non-text portions of this message have been removed]

23277. Re: TS-830s issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-04 22:21:28 UTC
From: w5rkl
Topic: 23254 Message: 23277

The presence of a 1/4 inch mono plug, shorted or not, that is inserted in the CW socket has no affect on the RF output in "TUNE" mode, only in CW mode.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "ron.levine" <levine.ron@...> wrote:
>
> No, I do not. The tuning instructions make no mention of using one.
>
> Thanks
> Ron
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> --- In TS-520_820_530_830@yahoogroups.com, Nathan Fowler <kj4aur@> wrote:
> >
> > Potentially a stupid question, so take no insult from it, but do you have CW key or a shorted key attached to the CW key jack on the back of the 830?
> >
> > 73 - Nathan/KJ4AUR
> >
> > --- On Wed, 11/4/09, ron.levine <levine.ron@> wrote:
> >
> > From: ron.levine <levine.ron@>
> > Subject: [TS-520_820_530_830] TS-830s issues
> > To: TS-520_820_530_830@yahoogroups.com
> > Date: Wednesday, November 4, 2009, 3:42 AM
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> >
> > Greetings all,
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> > After a lot of work on my radio, I am at a point where I need help.
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> > First off, it powers up and is able to recieve. I tuned to 10.000 and was able to hear the clock thingy.
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> > I have replaced the tubes in the radio. The fellow I got it from said that he pulled the radio out of service due to bad finals. I have replaced them and the driver tube as well at this point.
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> > Someone at some point in the past also did some "mods" to the radio which have been undone as well. Note: I could not find any recognized Mod for this radio that required the changes that were made.
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> >
> > Anyways, at this point, using k4eaa's tuning proceedures, I get a big fat zip. I set the following:
> >
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> >
> > Mode: tune
> >
> > CAR: 5/8ths or so
> >
> > LOAD: minimum
> >
> > BAND: 28 (only a tech so far don't want to broadcast outside my range)
> >
> > Tuner: 28.300
> >
> > Meter: ALC
> >
> >
> >
> > When I flip the SEND switch, I get no reading on the meter and I get nothing on my SWR/Power meter that I have inline with my antenna.
> >
> > Tried moving the Drive, per instructions, nothing. Tried maxing the CAR control, also nothing.
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> >
> > The switch on the back was tried in both positions also tried rotating the pots as well.
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> >

> > I am at a loss at this point. Anyone have any ideas?
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> > With regards and 73's
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> > KF7AYS
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> > [Non-text portions of this message have been removed]
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23278. Re: TS-830s issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-04 23:23:54 UTC
From: w5rkl
Topic: 23254 Message: 23278

Ron,

You looked at the tube pins incorrectly.

Here's what the approximate driver tube voltages should be:

Pin Xmit / RCV
1... +4.6 / 0.0
2... +0.4 / -43.6
3... 0.0 / 0.0 (grounded)
4... N/A / N/A
5... N/A / N/A
6... N/A / N/A
7... +297 / +339
8... +185 / +241
9... N/A / N/A

"N/A" means the pins are not used.

These voltages are on the TS-830's high resolution schematic of the RF UNIT. The voltages are in RED. Transmit voltages are in enclosed in parens while receiver voltages are not.

I recommend checking the voltages indicated on the high resolution schematic in both transmit and receive. The voltage readings will give you an idea of what is working and what is not.

Here's an example of what could happen.

If, while measuring the driver tube grid voltage, pin 2, you notice the voltage does not change from -43.6VDC in receive to +.4VDC in transmit, the problem is on the AF UNIT, possibly due a bad relay RL1 on the AF UNIT.

In transmit, the AF UNIT's RL1 relay grounds "VR3" voltage on plug 5 pin 1 causing the "DRB" (DRiver Bias) voltage, AF UNIT plug 6 pin 5 to change from -43.6VDC to +.4VDC. If the "DRB" voltage remains at -43.6VDC, whether in transmit or receive, the driver tube will remain biased to "cut off" which leads to no RF output from the driver tube, no ALC indication in TUNE mode regardless of the CAR control setting, and no RF output from the final amplifier. This could be caused by a bad relay RL1 on the AF UNIT, it may not be energizing. In short, the "VR3" voltage MUST be grounded in transmit before the DRB voltage will change. No grounding of VR3 voltage results in no change in DRB voltage, and so on.

Now, the above example is just that, an example ONLY and does not reflect the actual problem you are experiencing with your 830. It's simply a discussion of how to check voltage and note the changes, if any, that should occur and what to look for if the change does not occur.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "ron.levine" <levine.ron@...> wrote:
>
> Ok, the driver tube voltages are as follows:
>
> 1: 0.0
> 2: 250.6
> 3: 344.9
> 4: 0.0
> 5: 0.0
> 6: 0.0
> 7: 0.0
> 8: -48.8
> 9: 0.0
> Center: 0.0
>

23279. Re: TS-830s issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-04 23:29:46 UTC
From: james27613
Topic: 23254 Message: 23279

Hi,

is the AGC switch set to fast or slow ?

73 james ke4dɪn

23280. Group issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-04 23:53:30 UTC
From: Larry
Topic: 23280 Message: 23280

does anyone know whats up with the group today? i have my settings on digest so i get one e-mail a day can review whats going on and take a second look if i wish but today i have recieved about 8 messages i re-checked my setttings and am sure my K9 has not changed me to get every message,,any clues?

23281. Re: [TS-520_820_530_830] K4EAA

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-04 22:00:36 UTC
From: Jonathan B. O'Rear
Topic: 20248 Message: 23281

I am on the same boat Steve.
Jonathan B. O'Rear / AT&T Blackberry Bold 9000

-----Original Message-----
From: "Steve" <n3gov@...>
Date: Wed, 04 Nov 2009 20:21:20
To: <TS-520_820_530_830@yahoogroups.com>
Subject: [TS-520_820_530_830] K4EAA

Has anyone heard from Ken. I have been trying to contact him through email for a couple months and have not gotten a reply. I wanted him to go through my 830 for me.

Steve.....N3GOV

[Non-text portions of this message have been removed]

23282. RE: [TS-520_820_530_830] Group issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-05 00:35:00 UTC
From: Greg Anders
Topic: 23280 Message: 23282

No clue here, my cat Baxter is my system admin. Everything purrs along fine.

Greg

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Larry
Sent: Wednesday, November 04, 2009 3:54 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Group issues

does anyone know whats up with the group today? i have my settings on digest so i get one e-mail a day can review whats going on and take a second look if i wish but today i have recieved about 8 messages i re-checked my setttings and am sure my K9 has not changed me to get every message,,any clues?

[Non-text portions of this message have been removed]

23283. Re: [TS-520_820_530_830] Group issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-05 00:40:54 UTC
From: Charlie , W5COV
Topic: 23280 Message: 23283

Yahoo I believe is going through some upgrades to roll out some new stuff on the 11th .

I am moderator of another group and have had trouble with membership notifications both yesterday and today .

Charlie , W5COV

[Non-text portions of this message have been removed]

23284. Re: K4EAA

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-05 00:59:56 UTC
From: ah6rr1
Topic: 20248 Message: 23284

I think he has a anti-spam running for anyone with @yahoo/hotmail ect mail accounts I have no problem using my email when contacting him.
Roland Ah6RR

--- In TS-520_820_530_830@yahoogroups.com, "Jonathan B. O'Rear" <jonkd4mpw@...> wrote:
>
> I am on the same boat Steve.
> Jonathan B. O'Rear / AT&T Blackberry Bold 9000
>
> -----Original Message-----
> From: "Steve" <n3gov@...>
> Date: Wed, 04 Nov 2009 20:21:20
> To: <TS-520_820_530_830@yahoogroups.com>
> Subject: [TS-520_820_530_830] K4EAA
>
> Has anyone heard from Ken. I have been trying to contact him through email for a couple months and have not gotten a reply. I wanted him to go through my 830 for me.
>
> Steve.....N3GOV
>
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>
> [Non-text portions of this message have been removed]
>

23285. Re: [TS-520_820_530_830] Group issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-05 01:18:09 UTC
From: Walter A. Breining
Topic: 23280 Message: 23285

Larry:
I checked your membership and you are indeed set for daily digests. All messages sent at once daily.

I don't know what to tell you except Yahoo has been weird from time to time since a software update a while back.

Anybody else on Daily Digest having this problem ?

Vy 73, Walt N9WB
Moderator

----- Original Message -----
From: Larry
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, November 04, 2009 6:53 PM
Subject: [TS-520_820_530_830] Group issues

does anyone know whats up with the group today? i have my settings on digest so i get one e-mail a day can review whats going on and take a second look if i wish but today i have recieved about 8 messages i re-checked my setttings and am sure my K9 has not changed me to get every message,,any clues?

[Non-text portions of this message have been removed]

23286. Re: TS-830s issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-05 03:19:14 UTC
From: kj4aur
Topic: 23254 Message: 23286

Thank you Mike for the clarification. 73

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> The presence of a 1/4 inch mono plug, shorted or not, that is inserted in the CW socket has no affect on the RF output in "TUNE" mode, only in CW mode.
>
> 73's
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "ron.levine" <levine.ron@> wrote:
> >
> > No, I do not. The tuning instructions make no mention of using one.
> >
> > Thanks
> > Ron
> >
> > --- In TS-520_820_530_830@yahoogroups.com, Nathan Fowler <kj4aur@> wrote:
> > >
> > > Potentially a stupid question, so take no insult from it, but do you have CW key or a shorted key attached to the CW key jack on the back of the 830?
> > >
> > > 73 - Nathan/KJ4AUR
> > >
> > > --- On Wed, 11/4/09, ron.levine <levine.ron@> wrote:
> > >
> > > From: ron.levine <levine.ron@>
> > > Subject: [TS-520_820_530_830] TS-830s issues
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Date: Wednesday, November 4, 2009, 3:42 AM
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> > > Greetings all,
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> > > After a lot of work on my radio, I am at a point where I need help.
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> > >
> > > First off, it powers up and is able to recieve. I tuned to 10.000 and was able to hear the clock thingy.
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> > >
> > > I have replaced the tubes in the radio. The fellow I got it from said that he pulled the radio out of service due to bad finals. I have replaced them and the driver tube as well at this point.
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> > >
> > >
> > > Someone at some point in the past also did some "mods" to the radio which have been undone as well. Note: I could not find any recognized Mod for this radio that required the changes that were made.
> > >
> > >
> > >
> > > Anyways, at this point, using k4eaa's tuning proceedures, I get a big fat zip. I set the following:
> > >
> > >
> > >
> > > Mode: tune
> > >
> > > CAR: 5/8ths or so
> > >
> > > LOAD: minimum
> > >
> > > BAND: 28 (only a tech so far don't want to broadcast outside my range)
> > >
> > > Tuner: 28.300
> > >
> > > Meter: ALC
> > >
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> > > When I flip the SEND switch, I get no reading on the meter and I get nothing on my SWR/Power meter that I have inline with my antenna.
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> > > Tried moving the Drive, per instructions, nothing. Tried maxing the CAR control, also nothing.
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> > > The switch on the back was tried in both positions also tried rotating the pots as well.
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> > > I am at a loss at this point. Anyone have any ideas?
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> > > With regards and 73's
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> > > KF7AYS
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23287. Re: K4EAA

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-05 03:53:40 UTC
From: Steve
Topic: 20248 Message: 23287

Roland,

I've been using my embarq account? Email him for me and Jonathan if you would or not! Thought I'd ask? We have money we want to give him!

Steve.....N3GOV

--- In TS-520_820_530_830@yahoogroups.com, "ah6rr1" <ah6rr@...> wrote:
>
> I think he has a anti-spam running for anyone with @yahoo/hotmail ect mail accounts I have no problem using my email when contacting him.
> Roland Ah6RR
>
> --- In TS-520_820_530_830@yahoogroups.com, "Jonathan B. O'Rear" <jonkd4mpw@> wrote:
> >
> > I am on the same boat Steve.
> > Jonathan B. O'Rear / AT&T Blackberry Bold 9000
> >
> > -----Original Message-----
> > From: "Steve" <n3gov@>
> > Date: Wed, 04 Nov 2009 20:21:20
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Subject: [TS-520_820_530_830] K4EAA
> >
> > Has anyone heard from Ken. I have been trying to contact him through email for a couple months and have not gotten a reply. I wanted him to go through my 830 for me.
> >
> > Steve.....N3GOV
> >
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> >
> >
> > [Non-text portions of this message have been removed]
> >
>

23288. Kenwood TS-520 No power output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-05 06:37:25 UTC
From: whiteknight926
Topic: 23288 Message: 23288

Well I got it finally. Turns out after a cleaning on relay RL-2, I guess I cleaned it a little to much... I guess after my cleaning an adjusment because of it sticking and not going back too recieve it wasn't even ingauging and keying the radio, It looked like it was moving ok but after pulling the relay out of a spare parts radio and relacing it with the other relay its keying and I now have power output. Wish I knew a little more about relays and how to adjust them the right way.. Oh well...

73's
Dan
WB0YYE

23289. Re: [TS-520_820_530_830] Re: TS-830s issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-05 07:49:34 UTC
From: martin
Topic: 23254 Message: 23289

Hi Ron. On the TS-830S, the calibrator is turned on by turning the mic gain control all the way counter-clockwise. The calibrator gives a signal every 25Khz on the dial. Look on page 10 of the TS-830S manual under item 19, Mic gain control.

The manual doesn't say much about it at all. You do know that the Drive control peaks the receiver sensitivity in receive mode? Once you have done that, the Drive control should be at (or near) peak for transmitting on the same frequency. The peak receiver sensitivity and peak ALC reading should be at the same setting on the Drive control. If not, the alignment of the coil pack may be slightly off.

What I was trying to find out from you is if you get any ALC reading.

TTYL

ron.levine wrote:
> Um, what calibrator???

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at http://www.defectivebydesign.org/what_is_drm"

23290. Re: [TS-520_820_530_830] Re: MA Meter on The 520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-05 09:08:40 UTC
From: Michael
Topic: 23250 Message: 23290

Mike w5rkl,

What I meant by the term "Burnt in" Was years ago you would have to leave the tube on for a while before putting the voltage to them, to make sure they would be ok. That's what a tech. told me years ago. Escpecially tubes that had been in storage for a extended length of time.

ki0gv
Mike

--- On Wed, 11/4/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: MA Meter on The 520S
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, November 4, 2009, 6:16 AM

Hello Mike,

Greag has covered it quite well.

I wonder what you meant by

"I let them "Burn In" for a few hours"

when referencing the driver and final tubes.

73's
Mike W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, "ki0gv" <ki0gv@...> wrote:
>
> Mike w5rkl,
>
> After installing N.O.S tubes in my 520S I let them "Burn In" for afew hours. When I tuned them up for the first time, The nuetralization seemed real closed, but the MA meter is reading 270 instead of the 225 normal reading and the power out is about 130 watts.
> Isn't that to many Miliamps for the tubes to draw during key down, but what can I do to lower the MA'S.
>
> Thanks
> ki0gv
> Mike
>

[Non-text portions of this message have been removed]

23291. Re: [TS-520_820_530_830] Kenwood TS-520 No power output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-05 15:01:36 UTC
From: Jim Stanicek
Topic: 23288 Message: 23291

Yes it is possible to "clean" a relay too much. Many relays have a silver coating on the contacts, and they should NEVER be filed, or even burnished if the are highly tarnished.

An old fashion method of cleaning relays involves some alcohol and some rough paper, nothing harsher. You simply pass the paper between the closed contacts until it no longer shows any black streaks when being pulled through. Of course, if the contacts are Normally Open, you would press on the armature of the relay to close them as you pass the paper through them. And naturally, do not do this with any voltage applied to the rig!

The combination should eliminate any oil or other buildups such as cigarette smoke that may affect the continuity of the contacts.

If you file the contacts, you will distroy that silver coating, and all bets are off as for the relay working properly!

Good luck! Jim AG3Y

----- Original Message -----
From: whiteknight926
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, November 05, 2009 1:37 AM
Subject: [TS-520_820_530_830] Kenwood TS-520 No power output

Well I got it finally. Turns out after a cleaning on relay RL-2, I guess I cleaned it a little to much... I guess after my cleaning an adjusment because of it sticking and not going back too recieve it wasn't even ingauging and keying the radio, It looked like it was moving ok but after pulling the relay out of a spare parts radio and relacing it with the other relay its keying and I now have power output. Wish I knew a little more about relays and how to adjust them the right way.. Oh well...

73's
Dan
WB0YYE

[Non-text portions of this message have been removed]

23292. TS-830S unstable RF problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-05 15:33:26 UTC
From: aschichler
Topic: 23292 Message: 23292

I have a TS-830S that I acquired recently, and I've been going through a basic overhaul (cleaning pots, switches, connectors, tightening screws, etc., and aligning everything I can).

Anyway, after fixing a bad solder joint on the driver tube socket, I proceeded to align the driver and RF/Ant coils. At some point, when I was aligning the driver coils, I found that putting pressure on the RF board changed the ALC reading, so I decided to poke around to see what might be causing that. Then I found that every time I put pressure on T4 (IF transformer), the reading changed (a lot) and needed re-peaking, so I resoldered all the connections on T4, which made no difference. Finally, I removed T4 and took it apart. It looked ok, but I figured it couldn't hurt to re-solder everything inside, so I proceeded to do that, using a jeweler's loupe. After I installed it back in the RF board, it seemed a little more stable, but putting downward or sideways pressure on T4 still changes the ALC reading some, and I had to go and re-tune the slug if I want it tuned for maximum ALC reading.

Anyway, I was just wondering if anyone has run into anything similar, and if I should try to replace T4. (Maybe it's just that T4 tunes very sharply, and any pressure on the can changes the inductance enough to make a significant difference).

Sorry for the long post. I would appreciate any comments or suggestions.
Thanks,
Al, WA2AS

23293. Have gone mobile w/TS-520s - NEED HAND MIKE !!!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-05 15:38:34 UTC
From: Howard Weinstein
Topic: 23288 Message: 23293

Gang,

I recently went mobile with a TS-520s - yes, I have the AC/DC version, and I am in need of a good mobile mike. Will consider also consider a headset

I don't remember the model number of the hand microphone that was originally supplied with the radio so I could use some help from you TS-520s specialists out there.

I have a good mobile CW key (that little USSR military one mounted on a stamped metal disc with a leg strap) - barebones - but works GOOD !!!

Any and all assistance would be appreciated - Thank you !!!

72/73 de Howie K3HW

[Non-text portions of this message have been removed]

23294. Re: K4EAA

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-05 14:26:13 UTC
From: Steve
Topic: 20248 Message: 23294

I think so! ken at his call dot com. The one on the bottom of his webpage!

Steve........N3GOV

--- In TS-520_820_530_830@yahoogroups.com, "Dick Merryman" <dicko@...> wrote:
>
> Are you using the correct e-mail address, ken@...? I've messaged with
> him several times in the last two weeks.
>
> -Dick-
> N3XRU
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Steve
> Sent: Wednesday, November 04, 2009 12:21 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] K4EAA
>
>
>
>
> Has anyone heard from Ken. I have been trying to contact him through email
> for a couple months and have not gotten a reply. I wanted him to go through
> my 830 for me.
>
> Steve..........N3GOV
>
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>
> [Non-text portions of this message have been removed]
>

23295. Re: [TS-520_820_530_830] TS-830S unstable RF problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-05 16:12:50 UTC
From: n6wk@n6wk.com
Topic: 23292 Message: 23295

Hi Al,
Yes, I have run into similar situations.
Check the Caps VC1, VC2, VC3 where they solder to the RF board. A small hairline crack at one of the 5 large pads will cause your problem.

73,
Gordon
N6WK

aschichler wrote:
>
>
> I have a TS-830S that I acquired recently, and I've been going through
> a basic overhaul (cleaning pots, switches, connectors, tightening
> screws, etc., and aligning everything I can).
>
> Anyway, after fixing a bad solder joint on the driver tube socket, I
> proceded to align the driver and RF/Ant coils. At some point, when I
> was aligning the driver coils, I found that putting pressure on the RF
> board changed the ALC reading, so I decided to poke around to see what
> might be causing that. Then I found that every time I put pressure on
> T4 (IF transformer), the reading changed (a lot) and needed
> re-peaking, so I resoldered all the connections on T4, which made no
> difference. Finally, I removed T4 and took it apart. It looked ok, but
> I figured it couldn't hurt to re-solder everything inside, so I
> proceeded to do that, using a jeweler's loupe. After I installed it
> back in the RF board, it seemed a little more stable, but putting
> downward or sideways pressure on T4 still changes the ALC reading
> some, and I had to go and re-tune the slug if I want it tuned for
> maximum ALC reading.
>
> Anyway, I was just wondering if anyone has run into anything similar,
> and if I should try to replace T4. (Maybe it's just that T4 tunes very
> sharply, and any pressure on the can changes the inductance enough to
> make a significant difference).
>
> Sorry for the long post. I would appreciate any comments or suggestions.
> Thanks,
> Al, WA2AS
>
>

23296. Re: Group issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-05 17:15:18 UTC
From: David
Topic: 23280 Message: 23296

Walt
i had the same yesterday 10/4/09
got 8 emails.
Dave kg4uxr

--- In TS-520_820_530_830@yahoogroups.com, "Walter A. Breining" <n9wb@...> wrote:
>
> Larry:
> I checked your membership and you are indeed set for daily digests. All messages sent at once daily.
>
> I don't know what to tell you except Yahoo has been weird from time to time since a software update a while back.
>
> Anybody else on Daily Digest having this problem ?
>
> Vy 73, Walt N9WB
> Moderator
>
> ----- Original Message -----
> From: Larry
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, November 04, 2009 6:53 PM
> Subject: [TS-520_820_530_830] Group issues
>
>
>
> does anyone know whats up with the group today? i have my settings on digest so i get one e-mail a day can review whats going on and take a second look if i wish but today i have recieved about 8 messages i re-checked my setttings and am sure my K9 has not changed me to get every message,,any clues?
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

23297. Re: [TS-520_820_530_830] Have gone mobile w/TS-520s - NEED HAND MIKE !!!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-05 19:04:13 UTC
From: Lou Blasco
Topic: 23288 Message: 23297

Hi Howie,

I don't think you can go past the original MC-10

Lou
VK3ALB

At 02:38 AM 06/11/2009, you wrote:
>Gang,
>
>I recently went mobile with a TS-520s - yes, I have the AC/DC
>version, and I am in need of a good mobile mike. Will consider also
>consider a headset
>
>I don't remember the model number of the hand microphone that was
>originally supplied with the radio so I could use some help from you
>TS-520s specialists out there.
>
>I have a good mobile CW key (that little USSR military one mounted
>on a stamped metal disc with a leg strap) - barebones - but works GOOD !!!
>
>Any and all assistance would be appreciated - Thank you !!!
>
>72/73 de Howie K3HW

23298. Re: Group issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-05 19:11:26 UTC
From: David Bilitch
Topic: 23280 Message: 23298

KENWOOD TS-520_820_530_830I get the group in daily digest format and also received multiple digests for a day or so. Seems to have settled down now.

Dave
KI6BHB

[Non-text portions of this message have been removed]

23299. Re: [TS-520_820_530_830] Have gone mobile w/TS-520s - NEED HAND MIKE !!!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-05 19:17:15 UTC
From: martin
Topic: 23288 Message: 23299

Hi Guys. Actually, any properly wired mic or headset with an appropriate mic impedance can be used. That said, I prefer the stock Kenwood hand mic, or the MC-50. I am fortunate to have the appropriate stock hand mics for my Kenwood TS-430S (MC-42S), and my TS-130SE (MC30S). I wish I had the stock mic for my TS-530S. That one has an old hand mic (brand unknown), but I get good audio reports. And of course the MC-50 gets good audio reports with any of the 3 radios.

Lou Blasco wrote:
> Hi Howie,
>
> I don't think you can go past the original MC-10
>
> Lou
> VK3ALB
>
> At 02:38 AM 06/11/2009, you wrote:
>> Gang,
>>
>> I recently went mobile with a TS-520s - yes, I have the AC/DC
>> version, and I am in need of a good mobile mike. Will consider also
>> consider a headset
>>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

23300. Re: MA Meter on The 520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-05 19:16:58 UTC
From: w5rkl
Topic: 23250 Message: 23300

--- In TS-520_820_530_830@yahoogroups.com, Michael <ki0gv@...> wrote:
>
> Mike w5rkl,
>
> What I meant by the term "Burnt in" Was years ago you would have to leave the tube on for a while before putting the voltage to them, to make sure they would be ok. That's what a tech. told me years ago. Escpecially tubes that had been in storage for a extended length of time.
>
> ki0gv
> Mike
>

Hello Mike,

I suspect you are talking about eliminating "gas" in the tube. Unfortunately, in most, not all, vacuum tubes, filament power ONLY will not eliminate gas.

External anode tubes such as 4CX150, 4CX250, 8877, and other such tubes, however, have a gas absorbing coating that is applied to their filaments.

Small receiving, low and high power glass envelope tubes do not have this gas absorbing coating applied to their filaments.

External anode tubes such as the one listed above, have their filaments coated with a getter material that, when filament voltage is applied, the heat produced in the filament causes the getter coating to absorb gases in the tube. HV and cathode current is restricted during this process and the process take a minimum of 3 minutes. This procedure is required each time the tube is placed in service. That means every time the equipment these tubes are used in, is powered on, the minimum 3 minute warm-up period is required before applying HV and allowing the tubes to conduct (cathode current). Failure to follow this "warm-up" period with these tubes can result in internal arcing that can easily destroy the tube.

High power glass envelope tubes such as the 811/811A, 572B, and 3-500Z, along with a number of similar type tubes, do NOT have a "warm-up" or "burn-in" period like the external anode tubes do. These tubes do NOT have their filaments coated with a gas absorbing material either. These tubes have their "anodes" coated with a gas absorbing material, typically Zirconium. Zirconium, when heated to a high temperature, typically 1200 degree centigrade, absorb gases in the glass envelope. The filaments of these tubes cannot heat the anodes to this high temperature. The only way the anodes can be heated to this high temperature is with current flowing in the tube, normal operation occurring. A typical indication the anodes have reached this high temperature is the anodes show a dull red or amber color. This is normal and should not be considered a failure of the tube or the circuit the tube's operating in. Operating these tubes without color showing on the anodes can, and usually does, lead to reduce life span.

Small receiving and low power transmitting tubes such as 6146, 6AU6, 2E26, and others do not have their anodes or filaments coated with a gas absorbing material. Gases are absorbed from a getter element containing "Barium". During the last stages of manufacturing the getter element, some shaped like a "halo" mounting on a long metal support while others appear like a square that is mounted inside the tube and at the base, hold the getter material which is typically Barium. After the tube has been sealed and during the degassing process, the getter is heated to a high temperature, typically by an RF induction coil place around the tube. This results in a "getter flash" that causes the chrome like "mirror coating" on the inside of the envelope next to the getter element. This chrome like mirror coating signals a good vacuum exists. A loss of vacuum is indicated by the coating turning "white". Discoloration of the coating is NOT a sign the tube is failing as some may think. Small receiving and low power vacuum tubes should NEVER show color on their anodes. Any color showing on their anodes is an indication there is a major problem or you are severely over driving the tube(s)!

For more information on vacuum tubes, getter process, degassing, and how vacuum tubes work, log onto one of the following websites:

http://w8ji.com/vacuum_tubes_and_vaccum_tube_failures.htm

http://www.vacuumtubes.net/How_Vacuum_Tubes_Work.htm

http://www.cpii.com/division.cfm/9

http://www.cpii.com/docs/related/22/C&F1Web.pdf

http://www.coutant.org/eimac/index.html

Additional information on vacuum tubes, both receiving and transmitting, can be found in vacuum tube manufacturers tube manuals, available for downloading, free, at the following website. Click on "Contents" and scroll down the page.

http://www.amforever.com/

73's
Mike W5RKL

23301. Re: [TS-520_820_530_830] Re: MA Meter on The 520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-05 21:18:05 UTC
From: Big Mike
Topic: 23250 Message: 23301

Hello to all

Let me just say one thing about NOS tubes laying around for years. In the mid 70's, Bill Orr gave me 4 Eimac 3-500Z tubes. They were kept for for 30+ years. I sold 2 of them with an old SB-220 amp. The last pair were installed in a Drake L-4B that I bought without tubes at a very good price. I found my NOS tubes, plugged them in, turned on the amp and began using it. That was two years ago. Never a problem, and I still use the amp on a daily basis. I still think it's a myth that you can't use tube that have been stored for many years. I've done it for close to 50 years!

Just my own opinion. We are entitled to have them still.

73,
Mike-K5VSE
Formerly WB6VSE, Senior Tech. Amateur Div
SBE, Watsonville, CA Retired Fire Chief
USS Point Defiance LSD 31, USS Okanogan APA 220
http://sjsharks.tripod.com/index.html
All email scanned with Norton 2010
In God We Trust

[Non-text portions of this message have been removed]

23302. Re: Group issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-05 20:32:02 UTC
From: John Hetherington
Topic: 23280 Message: 23302

Hi Walt, I received 5 or 6 individual digests yesterday with only 1 or 2 threads in each???

73's John
VE3IZM

[Non-text portions of this message have been removed]

23303. Re: [TS-520_820_530_830] Have gone mobile w/TS-520s - NEED HAND MIKE !!!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-05 22:39:19 UTC
From: Gordon JC Pearce
Topic: 23288 Message: 23303

On Fri, 2009-11-06 at 06:04 +1100, Lou Blasco wrote:
> Hi Howie,
>
> I don't think you can go past the original MC-10
>
> Lou
> VK3ALB

I'm using the MC-10 with mine - it came with a TR-2300 that I
occasionally use for packet ;-)

No complaints and quite a few compliments on the audio - including one
OM who commented that my audio "sounded like a hybrid Trio - got that
Kenwood sound - wonder what model you've got there?"

Gordon MM0YEQ

23304. Re: [TS-520_820_530_830] Re: Group issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-06 02:42:39 UTC
From: Walter A. Breining
Topic: 23280 Message: 23304

Sounds like a Yahoo problem to me.
Walt
----- Original Message -----
From: John Hetherington
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, November 05, 2009 3:32 PM
Subject: [TS-520_820_530_830] Re: Group issues

Hi Walt, I received 5 or 6 individual digests yesterday with only 1 or 2 threads in each???

73's John
VE3IZM

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23305. TS-520 transverter question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-06 05:59:04 UTC
From: loewensteijn@rocketmail.com
Topic: 23305 Message: 23305

Can someone tell me the output of the TS-520 transverter out that is used for driving the 144-146 Mhz transverter?

Alternatively, if someone can measure the RF voltage on the transverter out connection at 28-30 Mhz that would be of a great help too. If you decide to measure please let me know the output level of the TS-520 that you measure this voltage at.

Many thanks in advance,
Marinus, ZL2ML

23306. Re: [TS-520_820_530_830] Kenwood TS-520 No power output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-06 11:40:32 UTC
From: Jerry Keller
Topic: 23288 Message: 23306

The unprinted area of a business card pulled between the contacts will usually do a good job of cleaning without damaging the contacts.

73, Jerry K3BZ
----- Original Message -----
From: Jim Stanicek
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, November 05, 2009 10:01 AM
Subject: Re: [TS-520_820_530_830] Kenwood TS-520 No power output

Yes it is possible to "clean" a relay too much. Many relays have a silver coating on the contacts, and they should NEVER be filed, or even burnished if the are highly tarnished.

An old fashion method of cleaning relays involves some alcohol and some rough paper, nothing harsher. You simply pass the paper between the closed contacts until it no longer shows any black streaks when being pulled through. Of course, if the contacts are Normally Open, you would press on the armature of the relay to close them as you pass the paper through them. And naturally, do not do this with any voltage applied to the rig!

The combination should eliminate any oil or other buildups such as cigarette smoke that may affect the continuity of the contacts.

If you file the contacts, you will distroy that silver coating, and all bets are off as for the relay working properly!

Good luck! Jim AG3Y

----- Original Message -----
From: whiteknight926
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, November 05, 2009 1:37 AM
Subject: [TS-520_820_530_830] Kenwood TS-520 No power output

Well I got it finally. Turns out after a cleaning on relay RL-2, I guess I cleaned it a little to much... I guess after my cleaning an adjusment because of it sticking and not going back too recieve it wasn't even ingauging and keying the radio, It looked like it was moving ok but after pulling the relay out of a spare parts radio and relacing it with the other relay its keying and I now have power output. Wish I knew a little more about relays and how to adjust them the right way.. Oh well...

73's
Dan
WB0YYE

[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

23307. Re: [TS-520_820_530_830] Kenwood TS-520 No power output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-06 14:58:11 UTC
From: Jim Stanicek
Topic: 23288 Message: 23307

I have heard of people using dollar bills to do the same job, but I would think that the ink would leave its own deposit behind (no pun intended !)

If you print your own QSL cards on blank card stock, that would be a great source for the paper. Especially true if you use the mat surface cards.

Jim AG3Y

----- Original Message -----
From: Jerry Keller
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, November 06, 2009 6:40 AM
Subject: Re: [TS-520_820_530_830] Kenwood TS-520 No power output

The unprinted area of a business card pulled between the contacts will usually do a good job of cleaning without damaging the contacts.

73, Jerry K3BZ
----- Original Message -----
From: Jim Stanicek
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, November 05, 2009 10:01 AM
Subject: Re: [TS-520_820_530_830] Kenwood TS-520 No power output

Yes it is possible to "clean" a relay too much. Many relays have a silver coating on the contacts, and they should NEVER be filed, or even burnished if the are highly tarnished.

An old fashion method of cleaning relays involves some alcohol and some rough paper, nothing harsher. You simply pass the paper between the closed contacts until it no longer shows any black streaks when being pulled through. Of course, if the contacts are Normally Open, you would press on the armature of the relay to close them as you pass the paper through them. And naturally, do not do this with any voltage applied to the rig!

The combination should eliminate any oil or other buildups such as cigarette smoke that may affect the continuity of the contacts.

If you file the contacts, you will distroy that silver coating, and all bets are off as for the relay working properly!

Good luck! Jim AG3Y

----- Original Message -----
From: whiteknight926
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, November 05, 2009 1:37 AM
Subject: [TS-520_820_530_830] Kenwood TS-520 No power output

Well I got it finally. Turns out after a cleaning on relay RL-2, I guess I cleaned it a little to much... I guess after my cleaning an adjusment because of it sticking and not going back too recieve it wasn't even ingauging and keying the radio, It looked like it was moving ok but after pulling the relay out of a spare parts radio and relacing it with the other relay its keying and I now have power output. Wish I knew a little more about relays and how to adjust them the right way.. Oh well...

73's
Dan
WB0YYE

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Yahoo! Groups Links

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23308. RE: [TS-520_820_530_830] Kenwood TS-520 No power output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-06 15:40:58 UTC
From: Greg Anders
Topic: 23288 Message: 23308

Another good cleaner is a cut up section of a plain brown paper shopping bag. It is a little trickier to get it thru the contacts, but the abrasion factor is the same as a business card.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jerry Keller
Sent: Friday, November 06, 2009 3:41 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Kenwood TS-520 No power output

The unprinted area of a business card pulled between the contacts will usually do a good job of cleaning without damaging the contacts.

73, Jerry K3BZ
----- Original Message -----
From: Jim Stanicek
To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
Sent: Thursday, November 05, 2009 10:01 AM
Subject: Re: [TS-520_820_530_830] Kenwood TS-520 No power output

Yes it is possible to "clean" a relay too much. Many relays have a silver coating on the contacts, and they should NEVER be filed, or even burnished if the are highly tarnished.

An old fashion method of cleaning relays involves some alcohol and some rough paper, nothing harsher. You simply pass the paper between the closed contacts until it no longer shows any black streaks when being pulled through. Of course, if the contacts are Normally Open, you would press on the armature of the relay to close them as you pass the paper through them. And naturally, do not do this with any voltage applied to the rig!

The combination should eliminate any oil or other buildups such as cigarette smoke that may affect the continuity of the contacts.

If you file the contacts, you will distroy that silver coating, and all bets are off as for the relay working properly!

Good luck! Jim AG3Y

----- Original Message -----
From: whiteknight926
To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
Sent: Thursday, November 05, 2009 1:37 AM
Subject: [TS-520_820_530_830] Kenwood TS-520 No power output

Well I got it finally. Turns out after a cleaning on relay RL-2, I guess I cleaned it a little to much... I guess after my cleaning an adjusment because of it sticking and not

going back too recieve it wasn't even ingauging and keying the radio, It looked like it was moving ok but after pulling the relay out of a spare parts radio and relacing it with the other relay its keying and I now have power output. Wish I knew a little more about relays and how to adjust them the right way.. Oh well...

73's
Dan
WB0YYE

[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23309. Spec-ing LEDs as panel lamp replacements

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-06 15:50:33 UTC
From: ganders52
Topic: 23309 Message: 23309

I am considering using LEDs instead of lamps as replacements for panel lamps in my radios going forward.

My question is how bright an LED should I use? What I see is that LED's are rated in "mcd's" which I know nothing about. Does anyone have a recommendation as to what range of brightness would be useable to replace dial and S-meter incandescent lamps?

I already know how to calculate dropping/current limiting resistance required, I am just ignorant about the "mcd" stuff.

Thanks for your help,

Greg
KG6YV

23310. RE: [TS-520_820_530_830] Spec-ing LEDs as panel lamp replacements

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-06 16:01:28 UTC
From: Sulaiman Abdullah
Topic: 23309 Message: 23310

mcd is a measure of INTENSITY so for a given led chip and current, a narrower beam width gives a higher intensity / mcd.

I'd go for 120 degree (or thereabouts) leds, any 20 mA device should be bright enough to read a dial ... too bright may not be good.

To: TS-520_820_530_830@...m
From: greg.anders@...
Date: Fri, 6 Nov 2009 15:50:33 +0000
Subject: [TS-520_820_530_830] Spec-ing LEDs as panel lamp replacements

I am considering using LEDs instead of lamps as replacements for panel lamps in my radios going forward.

My question is how bright an LED should I use? What I see is that LED's are rated in "mcd's" which I know nothing about. Does anyone have a recommendation as to what range of brightness would be useable to replace dial and S-meter incandescent lamps?

I already know how to calculate dropping/current limiting resistance required, I am just ignorant about the "mcd" stuff.

Thanks for your help,

Greg
KG6YV

_____
Chat to your friends for free on selected mobiles
http://clk.atdmt.com/UKM/go/174426567/direct/01/

[Non-text portions of this message have been removed]

23311. RE: [TS-520_820_530_830] Spec-ing LEDs as panel lamp replacements

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-06 16:19:28 UTC
From: Greg Anders
Topic: 23309 Message: 23311

Thanks for the educational information Sulaiman,

Greg

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Sulaiman Abdullah
Sent: Friday, November 06, 2009 8:01 AM
To: ts-520_820_530_830@yahoogroups.com
Subject: RE: [TS-520_820_530_830] Spec-ing LEDs as panel lamp replacements

mcd is a measure of INTENSITY so for a given led chip and current, a narrower beam width gives a higher intensity / mcd.

I'd go for 120 degree (or thereabouts) leds, any 20 mA device should be bright enough to read a dial ... too bright may not be good.

To: TS-520_820_530_830@yahoogroups.com
From: greg.anders@...
Date: Fri, 6 Nov 2009 15:50:33 +0000
Subject: [TS-520_820_530_830] Spec-ing LEDs as panel lamp replacements

I am considering using LEDs instead of lamps as replacements for panel lamps in my radios going forward.

My question is how bright an LED should I use? What I see is that LED's are rated in "mcd's" which I know nothing about. Does anyone have a recommendation as to what range of brightness would be useable to replace dial and S-meter incandescent lamps?

I already know how to calculate dropping/current limiting resistance required, I am just ignorant about the "mcd" stuff.

Thanks for your help,

Greg
KG6YV

_____
Chat to your friends for free on selected mobiles
http://clk.atdmt.com/UKM/go/174426567/direct/01/

[Non-text portions of this message have been removed]

Yahoo! Groups Links

23312. Re: Kenwood TS-520 No power output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-06 17:14:53 UTC
From: WimP
Topic: 23288 Message: 23312

An old hand in the telephone business told me that a dollar bill worked best for cleaning..... It is strong and the abrasiveness is just right.
Have never used something else.

My 2 cents....

73, Wim PA0PGA

--- In TS-520_820_530_830@yahoogroups.com, Greg Anders <greg.anders@...> wrote:
>
> Another good cleaner is a cut up section of a plain brown paper shopping bag. It is a little trickier to get it thru the contacts, but the abrasion factor is the same as a business card.
>
> Greg
> KG6YV
>
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jerry Keller
> Sent: Friday, November 06, 2009 3:41 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] Kenwood TS-520 No power output
>
>
>
> The unprinted area of a business card pulled between the contacts will usually do a good job of cleaning without damaging the contacts.
>
> 73, Jerry K3BZ
> ----- Original Message -----
> From: Jim Stanicek
> To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Thursday, November 05, 2009 10:01 AM
> Subject: Re: [TS-520_820_530_830] Kenwood TS-520 No power output
>
> Yes it is possible to "clean" a relay too much. Many relays have a silver coating on the contacts, and they should NEVER be filed, or even burnished if the are highly tarnished.
>
> An old fashion method of cleaning relays involves some alcohol and some rough paper, nothing harsher. You simply pass the paper between the closed contacts until it no longer shows any black streaks when being pulled through. Of course, if the contacts are Normally Open, you would press on the armature of the relay to close them as you pass the paper through them. And naturally, do not do this with any voltage applied to the rig!
>
> The combination should eliminate any oil or other buildups such as cigarette smoke that may affect the continuity of the contacts.

>
> If you file the contacts, you will distroy that silver coating, and all bets are off as for the relay working properly!
>
> Good luck! Jim AG3Y
>
> ----- Original Message -----
> From: whiteknight926
> To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Thursday, November 05, 2009 1:37 AM
> Subject: [TS-520_820_530_830] Kenwood TS-520 No power output
>
> Well I got it finally. Turns out after a cleaning on relay RL-2, I guess I cleaned it a little to much... I guess after my cleaning an adjusment because of it sticking and not going back too recieve it wasn't even ingauging and keying the radio, It looked like it was moving ok but after pulling the relay out of a spare parts radio and relacing it with the other relay its keying and I now have power output. Wish I knew a little more about relays and how to adjust them the right way.. Oh well...
>
> 73's
> Dan
> WB0YYE
>
> [Non-text portions of this message have been removed]
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> ------------------------------------
>
> Yahoo! Groups Links
>
> [Non-text portions of this message have been removed]
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>
>
> [Non-text portions of this message have been removed]
>

23313. Re: Kenwood TS-520 No power output

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-06 19:47:27 UTC
From: loewensteijn@rocketmail.com
Topic: 23288 Message: 23313

I used the dollar bills to wipe my pool cue, leaves just that nice surface behind. In this case be sure to use a new dollar bill because old ones have lots of muck (grease) on them. There are area's in Asia where they wash the bills to make them look newer. Those are the best to use. (no pun intended).

Actually dollar bills are not true paper, it is some form of linen which is why they last so long. Every curency has its own compound which is often used to determine counterfeit attempts.

Marinus

--- In TS-520_820_530_830@yahoogroups.com, "Jim Stanicek" <jimstan@...> wrote:
>
> I have heard of people using dollar bills to do the same job, but I would think that the ink would leave its own deposit behind (no pun intended !)
>
> If you print your own QSL cards on blank card stock, that would be a great source for the paper. Especially true if you use the mat surface cards.
>
> Jim AG3Y
>
>
> ----- Original Message -----
> From: Jerry Keller
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, November 06, 2009 6:40 AM
> Subject: Re: [TS-520_820_530_830] Kenwood TS-520 No power output
>
>
>
> The unprinted area of a business card pulled between the contacts will usually do a good job of cleaning without damaging the contacts.
>
> 73, Jerry K3BZ
> ----- Original Message -----
> From: Jim Stanicek
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, November 05, 2009 10:01 AM
> Subject: Re: [TS-520_820_530_830] Kenwood TS-520 No power output
>
> Yes it is possible to "clean" a relay too much. Many relays have a silver coating on the contacts, and they should NEVER be filed, or even burnished if the are highly tarnished.
>
> An old fashion method of cleaning relays involves some alcohol and some rough paper, nothing harsher. You simply pass the paper between the closed contacts until it no longer shows any black streaks when being pulled through. Of course, if the contacts are Normally

Open, you would press on the armature of the relay to close them as you pass the paper through them. And naturally, do not do this with any voltage applied to the rig!
>
> The combination should eliminate any oil or other buildups such as cigarette smoke that may affect the continuity of the contacts.
>
> If you file the contacts, you will distroy that silver coating, and all bets are off as for the relay working properly!
>
> Good luck! Jim AG3Y
>
> ----- Original Message -----
> From: whiteknight926
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, November 05, 2009 1:37 AM
> Subject: [TS-520_820_530_830] Kenwood TS-520 No power output
>
> Well I got it finally. Turns out after a cleaning on relay RL-2, I guess I cleaned it a little to much... I guess after my cleaning an adjusment because of it sticking and not going back too recieve it wasn't even ingauging and keying the radio, It looked like it was moving ok but after pulling the relay out of a spare parts radio and relacing it with the other relay its keying and I now have power output. Wish I knew a little more about relays and how to adjust them the right way.. Oh well...
>
> 73's
> Dan
> WB0YYE
>
> [Non-text portions of this message have been removed]
>
> ------------------------------------
>
> Yahoo! Groups Links
>
> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
>

23314. LEDs as panel lamp replacements - figuring dropping resistor values???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-06 22:14:07 UTC
From: Howard Weinstein
Topic: 23309 Message: 23314

Hi Greg,

Excuse my ignorance but how DO you calculate dropping esistors for LED's? I guess in most cases I'll be dealing with 12 VDC. For some reason 220 ohms rings a bell with me...
Can you help?

Tnx es 73 de Howie K3HW

--- On Fri, 11/6/09, ganders52 <greg.anders@...> wrote:

From: ganders52 <greg.anders@...>
Subject: [TS-520_820_530_830] Spec-ing LEDs as panel lamp replacements
To: TS-520_820_530_830@yahoogroups.com
Date: Friday, November 6, 2009, 10:50 AM

I am considering using LEDs instead of lamps as replacements for panel lamps in my radios going forward.

My question is how bright an LED should I use? What I see is that LED's are rated in "mcd's" which I know nothing about. Does anyone have a recommendation as to what range of brightness would be useable to replace dial and S-meter incandescent lamps?

I already know how to calculate dropping/current limiting resistance required, I am just ignorant about the "mcd" stuff.

Thanks for your help,

Greg
KG6YV

[Non-text portions of this message have been removed]

23315. Re: [TS-520_820_530_830] LEDs as panel lamp replacements - figuring dropping resistor values???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-06 22:37:02 UTC
From: Jim Stanicek
Topic: 23309 Message: 23315

Find the forward voltage of the led and the current that is considered to be "normal" for the device's average light output. That is "I"

Take the supply voltage and subtract the forward conducting voltage of the diode. That is "E" in the equation.

Using Ohms law R = E/I , calculate the resistor ! That easy !

73, Jim AG3Y

----- Original Message -----
From: Howard Weinstein
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, November 06, 2009 5:14 PM
Subject: [TS-520_820_530_830] LEDs as panel lamp replacements - figuring dropping resistor values???

Hi Greg,

Excuse my ignorance but how DO you calculate dropping esistors for LED's? I guess in most cases I'll be dealing with 12 VDC. For some reason 220 ohms rings a bell with me...
Can you help?

Tnx es 73 de Howie K3HW

--- On Fri, 11/6/09, ganders52 <greg.anders@...> wrote:

From: ganders52 <greg.anders@...>
Subject: [TS-520_820_530_830] Spec-ing LEDs as panel lamp replacements
To: TS-520_820_530_830@yahoogroups.com
Date: Friday, November 6, 2009, 10:50 AM

I am considering using LEDs instead of lamps as replacements for panel lamps in my radios going forward.

My question is how bright an LED should I use? What I see is that LED's are rated in "mcd's" which I know nothing about. Does anyone have a recommendation as to what range of brightness would be useable to replace dial and S-meter incandescent lamps?

I already know how to calculate dropping/current limiting resistance required, I am just ignorant about the "mcd" stuff.

Thanks for your help,

Greg
KG6YV

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23316. Re: [TS-520_820_530_830] LEDs as panel lamp replacements - figuring dropping resistor values???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-06 22:41:22 UTC
From: Jerry Seay
Topic: 23309 Message: 23316

Here is the way to calculate the dropping resistor.

1. Determine the operating voltage and current for the LED you will use.

2. Use 13.8 volts DC as the source. Be sure that the source voltage is
DC not AC.

3. Here it is.

13.8-(operating Voltage of the LED)/Operating current of the LED=
resistance of the dropping resistor.

1/8 or 1/4 watt resistor will work just fine.

Example:

LED operating voltage=3.5VDC
LED operating current=200ma

13.8-3.5/.2=51.5ohms

Hope this helps.

Jerry

On Fri, 2009-11-06 at 14:14 -0800, Howard Weinstein wrote:
>
> Hi Greg,
>
> Excuse my ignorance but how DO you calculate dropping esistors for
> LED's? I guess in most cases I'll be dealing with 12 VDC. For some
> reason 220 ohms rings a bell with me...
> Can you help?
>
> Tnx es 73 de Howie K3HW
>
> --- On Fri, 11/6/09, ganders52 <greg.anders@...> wrote:
>
> From: ganders52 <greg.anders@...>
> Subject: [TS-520_820_530_830] Spec-ing LEDs as panel lamp replacements
> To: TS-520_820_530_830@yahoogroups.com
> Date: Friday, November 6, 2009, 10:50 AM
>
>
>
> I am considering using LEDs instead of lamps as replacements for panel

> lamps in my radios going forward.
>
> My question is how bright an LED should I use? What I see is that
> LED's are rated in "mcd's" which I know nothing about. Does anyone
> have a recommendation as to what range of brightness would be useable
> to replace dial and S-meter incandescent lamps?
>
> I already know how to calculate dropping/current limiting resistance
> required, I am just ignorant about the "mcd" stuff.
>
> Thanks for your help,
>
> Greg
> KG6YV
>
> [Non-text portions of this message have been removed]
>
>
>
>
>

23317. Re: [TS-520_820_530_830] LEDs as panel lamp replacements - figuring dropping resistor values???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-06 22:44:22 UTC
From: Here i am
Topic: 23309 Message: 23317

heres the easy way

http://led.linear1.org/1led.wiz

so many calculators online no need to do it manually anymore

good luck

i have done this with both my 520 sugars and looks really good and the best thing is you can use any colour you like

Kevin

From: Howard Weinstein <k3hw@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sat, 7 November, 2009 9:14:07 AM
Subject: [TS-520_820_530_830] LEDs as panel lamp replacements - figuring dropping resistor values???

Hi Greg,

Excuse my ignorance but how DO you calculate dropping esistors for LED's? I guess in most cases I'll be dealing with 12 VDC. For some reason 220 ohms rings a bell with me...
Can you help?

Tnx es 73 de Howie K3HW

--- On Fri, 11/6/09, ganders52 <greg.anders@ synopsys. com> wrote:

From: ganders52 <greg.anders@ synopsys. com>
Subject: [TS-520_820_ 530_830] Spec-ing LEDs as panel lamp replacements
To: TS-520_820_530_ 830@yahoogroups. com
Date: Friday, November 6, 2009, 10:50 AM

I am considering using LEDs instead of lamps as replacements for panel lamps in my radios going forward.

My question is how bright an LED should I use? What I see is that LED's are rated in "mcd's" which I know nothing about. Does anyone have a recommendation as to what range of brightness would be useable to replace dial and S-meter incandescent lamps?

I already know how to calculate dropping/current limiting resistance required, I am just ignorant about the "mcd" stuff.

Thanks for your help,

Greg
KG6YV

[Non-text portions of this message have been removed]

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23318. Re: [TS-520_820_530_830] LEDs as panel lamp replacements - figuring dropping resistor values???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-07 00:38:48 UTC
From: Gary Meyer
Topic: 23309 Message: 23318

Jerry
An LED does no draw 200 ma. Ir. draws just 20 ma . Resistance should be 515 ohms.
----- Original Message -----
From: Jerry Seay
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, November 06, 2009 4:41 PM
Subject: Re: [TS-520_820_530_830] LEDs as panel lamp replacements - figuring dropping resistor values???

Here is the way to calculate the dropping resistor.

1. Determine the operating voltage and current for the LED you will use.

2. Use 13.8 volts DC as the source. Be sure that the source voltage is DC not AC.

3. Here it is.

13.8-(operating Voltage of the LED)/Operating current of the LED= resistance of the dropping resistor.

1/8 or 1/4 watt resistor will work just fine.

Example:

LED operating voltage=3.5VDC
LED operating current=200ma

13.8-3.5/.2=51.5ohms

Hope this helps.

Jerry

On Fri, 2009-11-06 at 14:14 -0800, Howard Weinstein wrote:
>
> Hi Greg,
>
> Excuse my ignorance but how DO you calculate dropping esistors for
> LED's? I guess in most cases I'll be dealing with 12 VDC. For some
> reason 220 ohms rings a bell with me...
> Can you help?
>
> Tnx es 73 de Howie K3HW
>
> --- On Fri, 11/6/09, ganders52 <greg.anders@...> wrote:

>
> From: ganders52 <greg.anders@...>
> Subject: [TS-520_820_530_830] Spec-ing LEDs as panel lamp replacements
> To: TS-520_820_530_830@yahoogroups.com
> Date: Friday, November 6, 2009, 10:50 AM
>
>
>
> I am considering using LEDs instead of lamps as replacements for panel
> lamps in my radios going forward.
>
> My question is how bright an LED should I use? What I see is that
> LED's are rated in "mcd's" which I know nothing about. Does anyone
> have a recommendation as to what range of brightness would be useable
> to replace dial and S-meter incandescent lamps?
>
> I already know how to calculate dropping/current limiting resistance
> required, I am just ignorant about the "mcd" stuff.
>
> Thanks for your help,
>
> Greg
> KG6YV
>
> [Non-text portions of this message have been removed]
>
>
>
>
>

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23319. Re: [TS-520_820_530_830] LEDs as panel lamp replacements - figuring dropping resistor values???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-07 00:45:42 UTC
From: Here i am
Topic: 23309 Message: 23319

it really depends on the LED itself high/low Intensity ECT best to check manufactures spec for current draw just to be sure as it varies, the ones i used draw 30ma

_____
From: Gary Meyer <meyer@bevcomm.net>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sat, 7 November, 2009 11:38:48 AM
Subject: Re: [TS-520_820_530_830] LEDs as panel lamp replacements - figuring dropping resistor values???

Jerry
An LED does no draw 200 ma. Ir. draws just 20 ma . Resistance should be 515 ohms.
----- Original Message -----
From: Jerry Seay
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Friday, November 06, 2009 4:41 PM
Subject: Re: [TS-520_820_ 530_830] LEDs as panel lamp replacements - figuring dropping resistor values???

Here is the way to calculate the dropping resistor.

1. Determine the operating voltage and current for the LED you will use.

2. Use 13.8 volts DC as the source. Be sure that the source voltage is
DC not AC.

3. Here it is.

13.8-(operating Voltage of the LED)/Operating current of the LED=
resistance of the dropping resistor.

1/8 or 1/4 watt resistor will work just fine.

Example:

LED operating voltage=3.5VDC
LED operating current=200ma

13.8-3.5/.2= 51.5ohms

Hope this helps.

Jerry

On Fri, 2009-11-06 at 14:14 -0800, Howard Weinstein wrote:
>
> Hi Greg,

>
> Excuse my ignorance but how DO you calculate dropping esistors for
> LED's? I guess in most cases I'll be dealing with 12 VDC. For some
> reason 220 ohms rings a bell with me...
> Can you help?
>
> Tnx es 73 de Howie K3HW
>
> --- On Fri, 11/6/09, ganders52 <greg.anders@ synopsys. com> wrote:
>
> From: ganders52 <greg.anders@ synopsys. com>
> Subject: [TS-520_820_ 530_830] Spec-ing LEDs as panel lamp replacements
> To: TS-520_820_530_ 830@yahoogroups. com
> Date: Friday, November 6, 2009, 10:50 AM
>
>
>
> I am considering using LEDs instead of lamps as replacements for panel
> lamps in my radios going forward.
>
> My question is how bright an LED should I use? What I see is that
> LED's are rated in "mcd's" which I know nothing about. Does anyone
> have a recommendation as to what range of brightness would be useable
> to replace dial and S-meter incandescent lamps?
>
> I already know how to calculate dropping/current limiting resistance
> required, I am just ignorant about the "mcd" stuff.
>
> Thanks for your help,
>
> Greg
> KG6YV
>
> [Non-text portions of this message have been removed]
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>

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_____
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23320. Re: [TS-520_820_530_830] LEDs as panel lamp replacements - figuring dropping resistor values???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-07 01:20:45 UTC
From: Gordon JC Pearce
Topic: 23309 Message: 23320

On Fri, 2009-11-06 at 18:38 -0600, Gary Meyer wrote:
> Jerry
> An LED does no draw 200 ma. Ir. draws just 20 ma . Resistance should be 515 ohms.

I've got some LEDs here that draw 2000mA (yes, really 2A). They are on an aluminium plate about the size of a 50p that needs to be screwed to a heatsink.

They're too bright to use as panel lights.

Gordon MM0YEQ

23321. Re: [TS-520_820_530_830] LEDs as panel lamp replacements - figuring dropping resistor values???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-07 01:55:44 UTC
From: Gary Meyer
Topic: 23309 Message: 23321

Gordon
What is the physical size of those 2000ma LED's
Gary
----- Original Message -----
From: Gordon JC Pearce
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, November 06, 2009 7:20 PM
Subject: Re: [TS-520_820_530_830] LEDs as panel lamp replacements - figuring dropping resistor values???

On Fri, 2009-11-06 at 18:38 -0600, Gary Meyer wrote:
> Jerry
> An LED does no draw 200 ma. Ir. draws just 20 ma . Resistance should be 515 ohms.

I've got some LEDs here that draw 2000mA (yes, really 2A). They are on
an aluminium plate about the size of a 50p that needs to be screwed to a
heatsink.

They're too bright to use as panel lights.

Gordon MM0YEQ

[Non-text portions of this message have been removed]

23322. Re: [TS-520_820_530_830] LEDs as panel lamp replacements - figuring dropping resistor values???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-07 10:37:20 UTC
From: Gordon JC Pearce
Topic: 23309 Message: 23322

On Fri, 2009-11-06 at 19:55 -0600, Gary Meyer wrote:
> Gordon
> What is the physical size of those 2000ma LED's
> Gary

The actual LED capsule is about 6mm across and slightly flatter than hemispherical. There's a plastic base about 8mm across that it clips into, and four wee fat surface-mount leads that go to the connection pads on the base.

Gordon MM0YEQ

23323. Re: [TS-520_820_530_830] LEDs as panel lamp replacements - figuring dropping resistor values???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-07 10:45:12 UTC
From: Allan Bear
Topic: 23309 Message: 23323

Ha......

--- On Sat, 7/11/09, Gordon JC Pearce <gordon@...> wrote:

From: Gordon JC Pearce <gordon@...>
Subject: Re: [TS-520_820_530_830] LEDs as panel lamp replacements - figuring dropping resistor values???
To: TS-520_820_530_830@yahoogroups.com
Date: Saturday, 7 November, 2009, 10:37

On Fri, 2009-11-06 at 19:55 -0600, Gary Meyer wrote:
> Gordon
> What is the physical size of those 2000ma LED's
> Gary

The actual LED capsule is about 6mm across and slightly flatter than hemispherical. There's a plastic base about 8mm across that it clips into, and four wee fat surface-mount leads that go to the connection pads on the base.

Gordon MM0YEQ

[Non-text portions of this message have been removed]

23324. Re: K4EAA

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-07 15:00:38 UTC
From: Noodle10536
Topic: 20248 Message: 23324

Hi all, It is funny that many of us are in the same boat with rigs at Ken's shop awaiting repair. I have a buddy who took my TS-530s from New York to Fla rather than ship it (he makes the run regularly). He met Ken in person and said that he is a really nice, regular guy. I have also spoken with Ken, in fact about 3 - 4 days ago. As usual he was very helpful, polite and patient. He said that he is absolutley swamped with work. My buddy said that his garage is virtually floor to ceiling with rigs. Ken said that he averages two radios per week. Ken said that he is unable to presently return the large number of emails that he has in que. If he takes time to do that, he is not fixing the rigs. He is also training an apprentice to help meet the demand which also takes time. I am just going to be patient and know that when I get the rig back it will be "right" and will function as well as it ever did. I hope to have mine back before Christmas. The wait is a pain in the patootey but I have gotten burned by a popular Drake repair man who rooked me but good! I don't think this will happen with Ken. He seems like a true professional. Keep the faith. 73's Peter

ps: do any of you guys visit a regular spot on the General portion of HF phone?

23325. Re: [TS-520_820_530_830] Re: K4EAA

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-07 15:37:07 UTC
From: Jerry Keller
Topic: 20248 Message: 23325

I just placed an order with Ken via email and he responded the next day. I followed the procedure described on his website www.k4eaa.com/parts.htm - the BIG YELLOW BOX at the bottom of the page. I sent him a list of the parts I wanted, told him I would pay by PayPal, and he responded with a PayPal invoice ... all exactly as he describes in the BIG YELLOW BOX. It's a good system.... and it would have worked just fine... EXCEPT that I screwed up and didn't tell Ken that my PayPal account is a different email address than the return address that shows up on my emailed order. And PayPal... quite correctly.... wouldn't allow me to pay an invoice that wasn't made out to my correct account. When I advised Ken of the problem he was very gracious and very prompt in cancelling the old invoice and issuing a new one. There's two things to be said about this:
(1) When ordering from Ken, follow the procedure described on his website. It works very well, and no doubt it requires the minimum amount of Ken's time to process the order.
(2) Be sure your current email address is exactly the same as your PayPal account. If not, be sure to tell Ken the correct email address (PayPal account name) to use for the invoice.

73, Jerry K3BZ

----- Original Message -----
From: Noodle10536
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, November 07, 2009 10:00 AM
Subject: [TS-520_820_530_830] Re: K4EAA

Hi all, It is funny that many of us are in the same boat with rigs at Ken's shop awaiting repair. I have a buddy who took my TS-530s from New York to Fla rather than ship it (he makes the run regularly). He met Ken in person and said that he is a really nice, regular guy. I have also spoken with Ken, in fact about 3 - 4 days ago. As usual he was very helpful, polite and patient. He said that he is absolutley swamped with work. My buddy said that his garage is virtually floor to ceiling with rigs. Ken said that he averages two radios per week. Ken said that he is unable to presently return the large number of emails that he has in que. If he takes time to do that, he is not fixing the rigs. He is also training an apprentice to help meet the demand which also takes time. I am just going to be patient and know that when I get the rig back it will be "right" and will function as well as it ever did. I hope to have mine back before Christmas. The wait is a pain in the patootey but I have gotten burned by a popular Drake repair man who rooked me but good! I don't think this will happen with Ken. He seems like a true professional. Keep the faith.
73's Peter

ps: do any of you guys visit a regular spot on the General portion of HF phone?

Yahoo! Groups Links

[Non-text portions of this message have been removed]

23326. Re: LEDs as panel lamp replacements - figuring dropping resistor values???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-08 01:32:29 UTC
From: bnhall_2000
Topic: 23309 Message: 23326

I've made this mod to 4 rigs so far (A 520S, 820S, 830S, and a 440S). I use a 1/4W 470 ohm resistor in series w/ the LED. I found a source of "soft white" LEDS that draw a max of 35mA. On the 830, I decided to try using SMD resistors and it was easier that I had suspected and a lot more compact.

Don't forget that unlike traditional lamps, you need to pay attention to correct polarity when using LEDs.

Brian AC7NA

23327. Why am I doing what I am doing?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-08 02:55:04 UTC
From: kevin
Topic: 23327 Message: 23327

I understand how to tune the transmitter, but can someone explain what I am doing as I go through the steps. I think if I understood why I was doing what I was doing when I tuned it, it would make me a better ham.
Kevin
KD0ILM

23328. Noise reduction file

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-08 15:01:23 UTC
From: w2blc
Topic: 23328 Message: 23328

I just listened to a file about noise reduction. It was a sample and seemed to work FB. Where can I get more information on this?

23329. Re: [TS-520_820_530_830] Noise reduction file

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-08 17:03:39 UTC
From: Don Thomas
Topic: 23328 Message: 23329

What file? Where did you hear it?

--- On Sun, 11/8/09, w2blc <w2blc@necoastal.net> wrote:

From: w2blc <w2blc@...>
Subject: [TS-520_820_530_830] Noise reduction file
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, November 8, 2009, 9:01 AM

I just listened to a file about noise reduction. It was a sample and seemed to work FB.
Where can I get more information on this?

[Non-text portions of this message have been removed]

23330. Kenwood TS 820S RX issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-08 16:53:04 UTC
From: qrp4898
Topic: 23330 Message: 23330

I have a new to me TS820S.
The first two weeks everything has worked and funtioned perfect- 100%.
RX-TX all buttons and funtions.

Three days ago I hooked up an external 820 VFO. All worked well except for a loose connection on one of the cord connectors. I had to jiggle it for it to have a good connection. Then all funtions worked fine between radio, tx/rx etc.

Yesterday the rig went deaf. I removed the external VFO thinking that was the issue, put the jumper back in and still no RX. I pushed the RIT button and faintly heard a signal. Currently the button makes no difference on or off. I hear very very faint signals on 40 and 80 meters. My antenna is good---tested it out on 2 other radios.

There is no deflection on RX on the meter. I was tuning the rig on 80 meters and put a call out to see if the meter was working. It worked fineon TX and I heard someone respond to my call sign. I could not hear enough to continue.
Meter works when testing HV---that is fine also.
With the RF gain turned up all the way and tuning the bands I can bairly make out a few signals.....but for the most part I only hear noise similar when the antenna is un hooked.

I could use any help/knowledge/advice/ideas and solutions to fix this RX issue.

Thanks for your time and help.
Mike
W2NFL

23331. Re: Why am I doing what I am doing?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-08 19:06:05 UTC
From: WimP
Topic: 23327 Message: 23331

Look at: http://www.k4eaa.com/

73, Wim PA0PGA

--- In TS-520_820_530_830@yahoogroups.com, "kevin" <kmx888@...> wrote:
>
> I understand how to tune the transmitter, but can someone explain what I am doing as I go through the steps. I think if I understood why I was doing what I was doing when I tuned it, it would make me a better ham.
> Kevin
> KD0ILM
>

23332. Carrier Control on TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-08 19:41:02 UTC
From: Dan
Topic: 23332 Message: 23332

Has anyone ever experienced a carrier control on a TS-520 that starts out high and as you are suppose to be turning the carrier up higher it goes lower in the middle of the pot and as you keep turning it goes back higher agin ???

This makes me think the pot is bad but I checked it on another 520 with a volt ohm meter and it does the same thing...

Thanks
Dan
WB0YYE

23333. Re: Noise reduction file

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-09 01:35:39 UTC
From: w2blc
Topic: 23328 Message: 23333

Look in the Files Section or copy and paste this:

http://f1.grp.yahoofs.com/v1/kGn3SlSIUjgmOgaHq1QJnC-j7dHxFgPags1u4hZi_sCv3h7luZO0jq-mVMQi7AV9bKNXo7WRoTOlPWe1HSPSYYmnkA/Kenwood%20TS-830%20audio%20files/NoiseCompare_TS-830S.mp3

23334. TS-820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-09 02:43:51 UTC
From: Michelle Mahle
Topic: 23334 Message: 23334

looking for pll unit for this kenwood just let me know the price

[Non-text portions of this message have been removed]

23335. Re: [TS-520_820_530_830] Re: Noise reduction file

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-09 04:30:53 UTC
From: Don Thomas
Topic: 23328 Message: 23335

Sounds great, Wonder what was done to clear the noise up that much? Maybe can track down user "valuedprofile" and ask, if he can be located.

Don T.

--- On Sun, 11/8/09, w2blc <w2blc@...> wrote:

From: w2blc <w2blc@...>
Subject: [TS-520_820_530_830] Re: Noise reduction file
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, November 8, 2009, 7:35 PM

Look in the Files Section or copy and paste this:

http://f1.grp. yahoofs.com/ v1/kGn3SlSIUjgmO gaHq1QJnC- j7dHxFgPags1u4hZ i_sCv3h7luZO0jq-mVMQi7AV9bKNXo7W RoTOlPWe1HSPSYYm nkA/Kenwood% 20TS-830% 20audio%20files/ NoiseCompare_ TS-830S.mp3

[Non-text portions of this message have been removed]

23336. DIAMOND HFV5 ANTENNA

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-09 04:20:53 UTC
From: utinsay
Topic: 23336 Message: 23336

Hi, Is there anyone that has had success in built up areas with the Diamond HFV5 antenna and if so on what frequencies? Thank you

23337. SSB filter question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-09 18:33:31 UTC
From: gpw200493
Topic: 23337 Message: 23337

Hey all,
I have a TS-520SE that has SSB and CW filter installed. The CW filter works great, but the SSB filter doesn't work at all. Reading the manual is says " move the brown lead from the SSB terminal to the CW terminal" Is this an either or setup, meaning you can use the SSB filter OR the CW filter but not both?

Thanks
Herb KC5MO

23338. Re: SSB filter question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-09 22:12:58 UTC
From: w5rkl
Topic: 23337 Message: 23338

Yes, that's correct. You can only select and use one filter at a time.

The filters are selected by forward biasing the filter select diodes (each filter has 2, one for the input side and one for the output side) on the IF UNIT. That is what the wiring changes are for when installing the CW filter. Check the 520 schematic to see how this is done.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "gpw200493" <gpw200493@...> wrote:
>
> Hey all,
> I have a TS-520SE that has SSB and CW filter installed. The CW filter works great, but the SSB filter doesn't work at all. Reading the manual is says " move the brown lead from the SSB terminal to the CW terminal" Is this an either or setup, meaning you can use the SSB filter OR the CW filter but not both?
>
> Thanks
> Herb KC5MO
>

23339. Re: [TS-520_820_530_830] Re: SSB filter question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-09 22:31:09 UTC
From: Charlie , W5COV
Topic: 23337 Message: 23339

Hi Mike , I apologize , for needing a clarification here . It is most likely clear to the others , but I do suffer from some memory issues .

I have the TS-830S and have a
YK-88C , that came separate from the radio , that I had intended to use when I operate CW .

Does this mean , that I should just leave the filter out , if I also intend to operate SSB or does it just mean that two filters can not be selected at the same time , for the particular mode of operation ?

THANK YOU , and again I apologize for what probably appears to be a question already answered .

73's

Charlie , W5COV

[Non-text portions of this message have been removed]

23340. Re: [TS-520_820_530_830] Re: SSB filter question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-10 00:01:54 UTC
From: John Davidson
Topic: 23337 Message: 23340

I still recall the day my TS520 CW filter arrived in the mail.
I just purchased the new 520 on closeout as the S models hit the store shelf. Came without the CW filter.
After getting it home and hooked up I discovered that on CW it was so broad recieving that it was nearly useless to me. I got on the fone immediately and ordered the 400 hZ filter.
I recall moving the brown wire that allowed the new filter to be selected by the mode switch. when you switch to SSB (I rarely do) the SSB filter is automatically selected.
See U on CW !
73......JD

--- On Mon, 11/9/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: SSB filter question
To: TS-520_820_530_830@yahoogroups.com
Date: Monday, November 9, 2009, 5:12 PM

Yes, that's correct. You can only select and use one filter at a time.

The filters are selected by forward biasing the filter select diodes (each filter has 2, one for the input side and one for the output side) on the IF UNIT. That is what the wiring changes are for when installing the CW filter. Check the 520 schematic to see how this is done.

73s
Mike W5RKL

--- In TS-520_820_530_ 830@yahoogroups. com, "gpw200493" <gpw200493@. ..> wrote:
>
> Hey all,
> I have a TS-520SE that has SSB and CW filter installed. The CW filter works great, but the SSB filter doesn't work at all. Reading the manual is says " move the brown lead from the SSB terminal to the CW terminal" Is this an either or setup, meaning you can use the SSB filter OR the CW filter but not both?
>
> Thanks
> Herb KC5MO
>

[Non-text portions of this message have been removed]

23341. Re: [TS-520_820_530_830] Re: SSB filter question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-10 00:20:40 UTC
From: Charlie , W5COV
Topic: 23337 Message: 23341

Thanks John !! CW is my mode of choice , so the CW filter was almost a requirement in my case of getting the TS830S on the air .

I only use SSB on occasion for nets and to keep a couple of schedules , with my family and my fellow LowFER's group .

73 , Charlie , W5COV

LowFER Beacon , CV , 185.298.25 kHz . , QRSS60 , 24 / 7 , EM26ex , OK.

[Non-text portions of this message have been removed]

23342. Re: SSB filter question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-10 01:36:44 UTC
From: loewensteijn@rocketmail.com
Topic: 23337 Message: 23342

Charlie

If you put the CW filter in the rig correctly (you have to move the brown wire as stated in the manual) then on SSB the SSB filter will be used and on CW the CW filter will be used.

Hope this clarifies,
Marinus, ZL2ML

--- In TS-520_820_530_830@yahoogroups.com, "Charlie , W5COV" <cvest@...> wrote:
>
> Hi Mike , I apologize , for needing a clarification here . It is most likely clear to the others , but I do suffer from some memory issues .
>
> I have the TS-830S and have a
> YK-88C , that came separate from the radio , that I had intended to use when I operate CW .
>
> Does this mean , that I should just leave the filter out , if I also intend to operate SSB or does it just mean that two filters can not be selected at the same time , for the particular mode of operation ?
>
> THANK YOU , and again I apologize for what probably appears to be a question already answered .
>
> 73's
>
> Charlie , W5COV
>
> [Non-text portions of this message have been removed]
>

23343. Re: [TS-520_820_530_830] Re: SSB filter question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-10 02:00:37 UTC
From: Charlie , W5COV
Topic: 23337 Message: 23343

Marinus ,

Thanks , that was the way that I understood it to work , but wanted to double check , since I am a bit dizzy today from an inner ear infection .

This is a great group to belong to !!

Charlie , W5COV

LowFER Beacon , CV , 185.298.25 kHz . , QRSS60 , 24 / 7 , EM26ex , OK.

[Non-text portions of this message have been removed]

23344. Re: SSB filter question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-10 02:37:50 UTC
From: w5rkl
Topic: 23337 Message: 23344

Charlie,

If the 830 does not have the CW filter installed but you have the CW filter in hand, install it. Follow the installation instructions in the manual.

Again, you cannot select both sideband AND CW filters at the same time.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Charlie , W5COV" <cvest@...> wrote:
>
> Hi Mike , I apologize , for needing a clarification here . It is most likely clear to the others , but I do suffer from some memory issues .
>
> I have the TS-830S and have a
> YK-88C , that came separate from the radio , that I had intended to use when I operate CW .
>
> Does this mean , that I should just leave the filter out , if I also intend to operate SSB or does it just mean that two filters can not be selected at the same time , for the particular mode of operation ?
>
> THANK YOU , and again I apologize for what probably appears to be a question already answered .
>
> 73's
>
> Charlie , W5COV
>
> [Non-text portions of this message have been removed]
>

23345. Re: [TS-520_820_530_830] Re: SSB filter question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-10 02:53:45 UTC
From: Charlie , W5COV
Topic: 23337 Message: 23345

Thanks Mike , I have the filter in hand . I thought that was what the answer meant , and I had no plans to select both filters at the same time , but just wanted to clarify , that was indeed what the reference was to .

I enjoy and pay VERY close attention to the posts that you and the other amazing experts on this line of rigs , from this list make .

It is just one of those days that I am not near the top of my game , mentally .

It is so GREAT to have you and all of the really wonderful people on this list to rely on in those situations .

I can't thank everyone enough , for bearing with me on things , that used to be no brainers , for me in my better days .

73, Charlie , W5COV

LowFER Beacon , CV , 185.298.25 kHz . , QRSS60 , EM26ex , OK.

[Non-text portions of this message have been removed]

23346. 2 Questions in regards to a 830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-10 13:07:15 UTC
From: Aaron
Topic: 23346 Message: 23346

1: Which filter is is Sherwood Engineering speaking of on their RX Data table for the 830? They just have YK88 and nothing more. http://www.sherweng.com/table.html

2: I would assume I can do this... Is it possible to use a SM-220 for Tube Neutralization. Its been 15 years since I played around with a scope so I am back on a learning curve again.

Thanks,
Aaron
KD4GSL

23347. Re: 2 Questions in regards to a 830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-10 13:47:02 UTC
From: w5rkl
Topic: 23346 Message: 23347

The "88" in the filter identification number denotes the "IF" frequency. In the case of the YK-88 filter, it is the "8.83Mhz IF" filter.

There are 2 of the YK-88 filters:

1. YK-88C - 500Hz CW filter for the 8.83Mhz IF. (Mode switch CW-W setting)

2. YK-88CN - 270Hz CW filter for the 8.83Mhz IF. (Mode switch CW-N setting)

See page 24 of the TS-830S operators manual for installation instructions.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Aaron" <wm.aaron.lamb@...> wrote:
>
> 1: Which filter is is Sherwood Engineering speaking of on their RX Data table for the 830? They just have YK88 and nothing more. http://www.sherweng.com/table.html
>
> 2: I would assume I can do this... Is it possible to use a SM-220 for Tube Neutralization. Its been 15 years since I played around with a scope so I am back on a learning curve again.
>
> Thanks,
> Aaron
> KD4GSL
>

23348. Re: [TS-520_820_530_830] Kenwood 520/820 External VFO cables

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-10 05:23:59 UTC
From: Bill Linn
Topic: 23178 Message: 23348

Hi folks,
Just wanted to put a plug in for Gordon's (N6WK) VFO cable offering..
I ordered one via email on the 6th and it was in my mailbox this morning
(9th). Very good service.

Bill - W7WEL

23349. T-599 / R-599 operating manuals....

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-10 21:47:50 UTC
From: Jeff E
Topic: 23349 Message: 23349

I'm asking for a friend, who's currently rebuilding his T-599 xmitter....

Anyone want to add an operating manual, to our files section?

Thank you.

Jeff - La Mirada, CA

23350. Re: T-599 / R-599 operating manuals....

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-10 21:52:29 UTC
From: n6wk_skcc3
Topic: 23349 Message: 23350

They are available on My Kenwood manuals site www.n6wk.com/kenwood
for free

73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "Jeff E" <MrNobody703@...> wrote:
>
> I'm asking for a friend, who's currently rebuilding his T-599 xmitter....
>
> Anyone want to add an operating manual, to our files section?
>
> Thank you.
>
> Jeff - La Mirada, CA
>

23351. Kenwood 599

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-10 22:18:22 UTC
From: Robert Musser
Topic: 23351 Message: 23351

Thank You Jeff for the posting requesting help with my project.

My name is Bob and my Call is KB6KPK. I own a set of Kenwood twins and have for a very long time. They were original with the 2001 tubes in the final. I picked them up in the 70's because the Heathkit Twins 301 /401 were not working correctly for me. I still have them as well.

About 5 years ago a dear friend and HAM Tom WA6UCD in Fountain Valley here locally was very sick and was only given 3 to 6 months to live. Tom had spent his life working in the Boy Scouts and was a Trainer for the Scout leaders here on the West Coast. Now that he was home full time trying to recover from Brain Cancer? I felt he needed a boost so I took him the twins! both sets! I set them up for him and told him he had to work the JOTA in October! Now it is only JUNE so you have time to practice some of your Ham skills again so you will be ready come October! He had a wonderful time and ended up using the equipment the next 3 years!! One of his Son's Mike now has his call sign and I stay in touch with him as well.

Now that I have the equipment back it is in need of repair! Oh well! I am looking for nets, links, or any help that someone could get me for the Kenwood 599 twins. I need the manuals, schematics, parts, etc so I can get this great looking set back on the air. The receiver I already went through and it works to perfection. I am now missing the link cable, and the Transmitter final section is fried and needs to be rebuilt, along with replacing the tuning bands because they are now all broken.

Look me up on QRZ and you can see the radios in the picture before I let Tom use them. They are on the bottom shelf to the left and the Heathkit twins are above them. MY shack has changed just a little since I took that picture!

I also have IRLP node 3551 so dial me up any time.

Any help you could link me up with will be greatly appreciated.
Thank You
Bob Musser
KB6KPK

_____
Hotmail: Trusted email with powerful SPAM protection.
http://clk.atdmt.com/GBL/go/177141665/direct/01/

[Non-text portions of this message have been removed]

23352. Quick Help

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-10 22:54:12 UTC
From: Robert Musser
Topic: 23352 Message: 23352

Gordon
Thank you for the quick reply. It is amazing that after all the searching and asking questions via the internet I find you only 6 miles away from the home QTH in O. C.
After working in the area for the last 40 who knows you may recognize me. Thank you for the link information and I will try and put this Kenwood 599 twins back on the air soon.
Because I find myself unemployed I have some extra time to put forth the effort.
KB6KPK
Bob

Windows 7: Unclutter your desktop.
http://go.microsoft.com/?linkid=9690331&ocid=PID24727::T:WLMTAGL:ON:WL:en-US:WWL_WIN_evergreen:112009

[Non-text portions of this message have been removed]

23353. 'Hi All' - from a New (Old) Bee !!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-10 22:54:13 UTC
From: Music Maker
Topic: 23353 Message: 23353

Hello guys and gals,

I have today joined the Group, and hope to be an active and participating member. I have been a 'quiet key' for over 35 years, and now, at 74, I have the time to renew my aquaintance with the airwaves. I am English and an ex Pro musician, as is my American wife. If you would like to know more abaout us, our hobbies and interests, or listen to our music - or that of some of our friends worldwide, please visit my website at www.John4Music.TV

As a pensioner, living on State Benefits (which I paid for by my contributions all my life!), I have little wealth, and have had to start off within financial constraints.

My first purchase, was an 'As New' TS 520SE Transceiver, with fist mic for 130 GB Pounds (200 US Dollars)from a local Amateur Op, and ex-Kenwood Employee.

I paid a bit too much I think on Ebay for my next item, an AT 230 ATU, again 'As New', but with a built in 200W Dummy Load! That cost me the same as the transceiver !!

Arrived today, again an Ebay purchase, an MP-1 Portable Multiband vertical antenna. It was not pictured with its 'extras' - nor were they mentioned, and I was delighted when it arrived from Ireland (Purchased in Germany, made in the US!) absolutely again 'As New', but with the additional extras of the Tripod base, and 80M Coil !!! this all cost me 56 GB Pounds (85 US Dollars).

So !! .... I am all ready (almost!) to get it all set up and on the air, and have just submitted my application (with my certification from 1956), to have a new Licence, but with my old Callsign, a pity I couldn't use two other callsigns (now extinct), that I held in the past, when I was 'Rare DX' - VS9AQP (Aden), and MP4BDS (Bahrein) in the early 1960's.

I hope the forgoing introduction didn't bore anyone, but while I am still here with the Tx key down, could I ask if anyone has a DG 5 Frequency Counter, a VFO 520, or a MC 50 Mic in good condition that they could sell me at a stupidly low price ??? HI

Thanks for allowing me in,

73's and Good DX,

John

23354. Re: [TS-520_820_530_830] 'Hi All' - from a New (Old) Bee !!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-10 23:10:37 UTC
From: Dave ve3wej
Topic: 23353 Message: 23354

home country is, renewed callsign (yet) is?????

welcome back to the airwaves. hope it is not a disappointing venture back

Dave Garber
VE3WEJ

----- Original Message -----
From: "Music Maker" <jhaddleton@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, November 10, 2009 5:54 PM
Subject: [TS-520_820_530_830] 'Hi All' - from a New (Old) Bee !!

>
> Hello guys and gals,
>
> I have today joined the Group, and hope to be an active and participating
> member. I have been a 'quiet key' for over 35 years, and now, at 74, I
> have the time to renew my aquaintance with the airwaves. I am English
> and an ex Pro musician, as is my American wife. If you would like to
> know more abaout us, our hobbies and interests, or listen to our music -
> or that of some of our friends worldwide, please visit my website at
> www.John4Music.TV
>
> As a pensioner, living on State Benefits (which I paid for by my
> contributions all my life!), I have little wealth, and have had to start
> off within financial constraints.
>
> My first purchase, was an 'As New' TS 520SE Transceiver, with fist mic for
> 130 GB Pounds (200 US Dollars)from a local Amateur Op, and ex-Kenwood
> Employee.
>
> I paid a bit too much I think on Ebay for my next item, an AT 230 ATU,
> again 'As New', but with a built in 200W Dummy Load! That cost me the
> same as the transceiver !!
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> antenna. It was not pictured with its 'extras' - nor were they
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> Germany, made in the US!) absolutely again 'As New', but with the
> additional extras of the Tripod base, and 80M Coil !!! this all cost me 56
> GB Pounds (85 US Dollars).
>
> So !! .... I am all ready (almost!) to get it all set up and on the air,
> and have just submitted my application (with my certification from 1956),
> to have a new Licence, but with my old Callsign, a pity I couldn't use two

> other callsigns (now extinct), that I held in the past, when I was 'Rare
> DX' - VS9AQP (Aden), and MP4BDS (Bahrein) in the early 1960's.
>
> I hope the forgoing introduction didn't bore anyone, but while I am still
> here with the Tx key down, could I ask if anyone has a DG 5 Frequency
> Counter, a VFO 520, or a MC 50 Mic in good condition that they could sell
> me at a stupidly low price ??? HI
>
> Thanks for allowing me in,
>
> 73's and Good DX,
>
> John
>
>
>
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> ---
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> Yahoo! Groups Links
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23355. RE: [TS-520_820_530_830] 'Hi All' - from a New (Old) Bee !!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-10 23:12:02 UTC
From: Greg Anders
Topic: 23353 Message: 23355

Welcome back John,

Your posting is one of the most enjoyable I have seen in a while. That 520SE is a great transceiver even today. I picked up mine earlier this year and recently worked several European stations on 40 meter SSB (now that we can all play on the same frequencies)....

BTW, you would definitely get attention in your area if you signed VS9....

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Music Maker
Sent: Tuesday, November 10, 2009 2:54 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] 'Hi All' - from a New (Old) Bee !!

Hello guys and gals,

I have today joined the Group, and hope to be an active and participating member. I have been a 'quiet key' for over 35 years, and now, at 74, I have the time to renew my aquaintance with the airwaves. I am English and an ex Pro musician, as is my American wife. If you would like to know more abaout us, our hobbies and interests, or listen to our music - or that of some of our friends worldwide, please visit my website at www.John4Music.TV

As a pensioner, living on State Benefits (which I paid for by my contributions all my life!), I have little wealth, and have had to start off within financial constraints.

My first purchase, was an 'As New' TS 520SE Transceiver, with fist mic for 130 GB Pounds (200 US Dollars)from a local Amateur Op, and ex-Kenwood Employee.

I paid a bit too much I think on Ebay for my next item, an AT 230 ATU, again 'As New', but with a built in 200W Dummy Load! That cost me the same as the transceiver !!

Arrived today, again an Ebay purchase, an MP-1 Portable Multiband vertical antenna. It was not pictured with its 'extras' - nor were they mentioned, and I was delighted when it arrived from Ireland (Purchased in Germany, made in the US!) absolutely again 'As New', but with the additional extras of the Tripod base, and 80M Coil !!! this all cost me 56 GB Pounds (85 US Dollars).

So !! .... I am all ready (almost!) to get it all set up and on the air, and have just submitted my application (with my certification from 1956), to have a new Licence, but with my old Callsign, a pity I couldn't use two other callsigns (now extinct), that I held in the past, when I was 'Rare DX' - VS9AQP (Aden), and MP4BDS (Bahrein) in the early 1960's.

I hope the forgoing introduction didn't bore anyone, but while I am still here with the Tx key down, could I ask if anyone has a DG 5 Frequency Counter, a VFO 520, or a MC 50 Mic in good condition that they could sell me at a stupidly low price ??? HI

Thanks for allowing me in,

73's and Good DX,

John

[Non-text portions of this message have been removed]

23356. RE: [TS-520_820_530_830] MA Meter on The 520S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-10 23:31:09 UTC
From: Michael
Topic: 23250 Message: 23356

Greg,

The band is 75 meter's into a known good Dummy load with the load control at about 11:00 oclock. Hope this is what you were wanting to know.

Thanks
Mike
ki0gv

--- On Tue, 11/3/09, Greg Anders <greg.anders@...> wrote:

From: Greg Anders <greg.anders@...>
Subject: RE: [TS-520_820_530_830] MA Meter on The 520S
To: "TS-520_820_530_830@yahoogroups.com" <TS-520_820_530_830@yahoogroups.com>
Date: Tuesday, November 3, 2009, 5:10 PM

Hi Mike,

Its difficult to tell unless we know whether or not you are running into a dummy load or an antenna? Which band? Where is the loading control set? 270ma would be possible to get 130Watts output but I wouldn't run those tubes at that high an output power for long. As a comparison, I load my 520SE to around 220ma on 75 meters into a dummy load with 100 to 105W output. The plate dip with the loading control counterclockwise goes down to just under 200ma with about 85W output at that level. Then I increase loading slightly to get to 220ma and 100W.

Greg
KG6YV

From: TS-520_820_530_ 830@yahoogroups. com [mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of ki0gv
Sent: Tuesday, November 03, 2009 3:04 PM
To: TS-520_820_530_ 830@yahoogroups. com
Subject: [TS-520_820_ 530_830] MA Meter on The 520S

Mike w5rkl,

After installing N.O.S tubes in my 520S I let them "Burn In" for afew hours. When I tuned them up for the first time, The nuetralization seemed real closed, but the MA meter is reading 270 instead of the 225 normal reading and the power out is about 130 watts. Isn't that to many Miliamps for the tubes to draw during key down, but what can I do to lower the MA'S.

Thanks
ki0gv
Mike

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23357. Re: SSB filter question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-11 00:05:45 UTC
From: gpw200493
Topic: 23337 Message: 23357

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:

Thanks for the replies!! I don't need it for SSB and really use it a lot on CW so I will leave it.

Herb KC5MO

23358. Re: [TS-520_820_530_830] 'Hi All' - from a New (Old) Bee !!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-11 06:14:34 UTC
From: Chris and Alex
Topic: 23353 Message: 23358

Hi John and welcome. I'm sure you'll enjoy it here.

I'm English too and retired to Crete, Greece 4 years ago and following a Harec submission I was granted a Greek amateur radio license.

I've operated a TS-520SE from here, it's a great set, easy to use and always gets good reports. I always considered that the DG-5 would just be nice to have but I discovered that you can also use it as a frequency counter on the workbench so it's really a handy piece of kit to have. I've recently aquired a TS-830M which has now taken up the number one spot together with an AT-230. After reading your post I'll have to look at building my dummy load into it.

You might want to check if the HV caps have been changed for new. Until now everyone seems to have been using Panasonic replacements as they are the same diameter and fit the holders. A recent post states that they've been discontinued. They don't cost a lot so it might be worth getting a couple before they've all gone.

Have fun.

Chris SV0XBQ/9 M0GHX

2009/11/11 Music Maker <jhaddleton@msn.com>

>
>
>
> Hello guys and gals,
>
> I have today joined the Group, and hope to be an active and participating
> member. I have been a 'quiet key' for over 35 years, and now, at 74, I have
> the time to renew my aquaintance with the airwaves. I am English and an ex
> Pro musician, as is my American wife. If you would like to know more abaout
> us, our hobbies and interests, or listen to our music - or that of some of
> our friends worldwide, please visit my website at www.John4Music.TV
>
> As a pensioner, living on State Benefits (which I paid for by my
> contributions all my life!), I have little wealth, and have had to start off
> within financial constraints.
>
> My first purchase, was an 'As New' TS 520SE Transceiver, with fist mic for
> 130 GB Pounds (200 US Dollars)from a local Amateur Op, and ex-Kenwood
> Employee.
>
> I paid a bit too much I think on Ebay for my next item, an AT 230 ATU,
> again 'As New', but with a built in 200W Dummy Load! That cost me the same

> as the transceiver !!
>
> Arrived today, again an Ebay purchase, an MP-1 Portable Multiband vertical
> antenna. It was not pictured with its 'extras' - nor were they mentioned,
> and I was delighted when it arrived from Ireland (Purchased in Germany, made
> in the US!) absolutely again 'As New', but with the additional extras of the
> Tripod base, and 80M Coil !!! this all cost me 56 GB Pounds (85 US Dollars).
>
> So !! .... I am all ready (almost!) to get it all set up and on the air,
> and have just submitted my application (with my certification from 1956), to
> have a new Licence, but with my old Callsign, a pity I couldn't use two
> other callsigns (now extinct), that I held in the past, when I was 'Rare DX'
> - VS9AQP (Aden), and MP4BDS (Bahrein) in the early 1960's.
>
> I hope the forgoing introduction didn't bore anyone, but while I am still
> here with the Tx key down, could I ask if anyone has a DG 5 Frequency
> Counter, a VFO 520, or a MC 50 Mic in good condition that they could sell me
> at a stupidly low price ??? HI
>
> Thanks for allowing me in,
>
> 73's and Good DX,
>
> John
>
>
>

[Non-text portions of this message have been removed]

23359. Re: Kenwood 599

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-11 06:54:02 UTC
From: Jeff E
Topic: 23351 Message: 23359

--- In TS-520_820_530_830@yahoogroups.com, Robert Musser <bmusser4@...> wrote:
>
>
>
> Thank You Jeff for the posting requesting help with my project.
>
>

My pleasure, Bob... Glad you were able to locate the information you needed...

Bob & I attended high school here in SoCal together, & graduated in 1971... Our paths have crossed often, especially when it comes to radio...

Radio is such a great hobby, & I have so many wonderful friends from it, I wouldn't trade it for a million dollars...

Two million? ... Well... maybe! LOL! :-)

Take care, everyone...

Jeff Easterly - La Mirada, CA

23360. Fried Tank Coil

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-11 16:53:20 UTC
From: sv0xbq
Topic: 23360 Message: 23360

Hi Everyone,
I was working on a sound card interface and had the radio on listening to cw like you do. I must have caught the send switch at some time and before long I got the dreaded smell of something far too hot. The tank coil is U/S but everything else looks ok. Has anyone rewound a tank coil successfully? What gauge is the wire and how many turns are there? How critical is the tank coil construction?

Doh..... I'll leave the heater switch off in future.

Chris SV0XBQ

23361. Re: [TS-520_820_530_830] Fried Tank Coil

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-11 17:31:33 UTC
From: n6wk@n6wk.com
Topic: 23360 Message: 23361

Hi Chris,
I think you mean the Plate Choke.
I can't imagine you being able to melt the tank coil.
73,
Gordon
N6WK

sv0xbq wrote:
>
>
> Hi Everyone,
> I was working on a sound card interface and had the radio on listening
> to cw like you do. I must have caught the send switch at some time and
> before long I got the dreaded smell of something far too hot. The tank
> coil is U/S but everything else looks ok. Has anyone rewound a tank
> coil successfully? What gauge is the wire and how many turns are
> there? How critical is the tank coil construction?
>
> Doh........ I'll leave the heater switch off in future.
>
> Chris SV0XBQ
>
>
>

23362. RE: [TS-520_820_530_830] Fried Tank Coil

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-11 17:01:16 UTC
From: Jim Atkins
Topic: 23360 Message: 23362

You didn't mention what model of hybrid you have. There is a guy (KE5FTF) that advertises parts for the hybrids on QTH.com. I have never done any business with him, just thought he might be a good source of parts. Good luck.

Jim W4UX

_____

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of sv0xbq
Sent: Wednesday, November 11, 2009 11:53 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Fried Tank Coil

Hi Everyone,
I was working on a sound card interface and had the radio on listening to cw like you do. I must have caught the send switch at some time and before long I got the dreaded smell of something far too hot. The tank coil is U/S but everything else looks ok. Has anyone rewound a tank coil successfully? What gauge is the wire and how many turns are there? How critical is the tank coil construction?

Doh..... I'll leave the heater switch off in future.

Chris SV0XBQ

[Non-text portions of this message have been removed]

23363. Re: [TS-520_820_530_830] Fried Tank Coil

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-11 17:35:55 UTC
From: n6wk@n6wk.com
Topic: 23360 Message: 23363

I have purchased many times from Bob. KE5FTF
He provides a great Service at a reasonable price.

73,
Gordon

Jim Atkins wrote:
>
>
> You didn't mention what model of hybrid you have. There is a guy (KE5FTF)
> that advertises parts for the hybrids on QTH.com. I have never done any
> business with him, just thought he might be a good source of parts. Good
> luck.
>
> Jim W4UX
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> [mailto:TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of sv0xbq
> Sent: Wednesday, November 11, 2009 11:53 AM
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Subject: [TS-520_820_530_830] Fried Tank Coil
>
> Hi Everyone,
> I was working on a sound card interface and had the radio on listening
> to cw
> like you do. I must have caught the send switch at some time and
> before long
> I got the dreaded smell of something far too hot. The tank coil is U/S but
> everything else looks ok. Has anyone rewound a tank coil successfully?
> What
> gauge is the wire and how many turns are there? How critical is the tank
> coil construction?
>
> Doh........ I'll leave the heater switch off in future.
>
> Chris SV0XBQ
>
> [
>

23364. Re: [TS-520_820_530_830] Fried Tank Coil

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-11 17:43:43 UTC
From: Chris and Alex
Topic: 23360 Message: 23364

Hi Gordon,

Yes you're right it's the plate choke. Do I look for new or is it practical
to rewind by hand?

Chris

2009/11/11 <n6wk@...>

>
>
> Hi Chris,
> I think you mean the Plate Choke.
> I can't imagine you being able to melt the tank coil.
> 73,
> Gordon
> N6WK
>
>
> sv0xbq wrote:
> >
> >
> > Hi Everyone,
> > I was working on a sound card interface and had the radio on listening
> > to cw like you do. I must have caught the send switch at some time and
> > before long I got the dreaded smell of something far too hot. The tank
> > coil is U/S but everything else looks ok. Has anyone rewound a tank
> > coil successfully? What gauge is the wire and how many turns are
> > there? How critical is the tank coil construction?
> >
> > Doh........ I'll leave the heater switch off in future.
> >
> > Chris SV0XBQ
> >
> >
> >
>
>
>

[Non-text portions of this message have been removed]

23365. Re: [TS-520_820_530_830] Fried Tank Coil

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-11 17:45:24 UTC
From: Chris and Alex
Topic: 23360 Message: 23365

Oh, and it's a TS-830

Chris

2009/11/11 Chris and Alex <alexandchrisp@gmail.com>

> Hi Gordon,
>
> Yes you're right it's the plate choke. Do I look for new or is it practical
> to rewind by hand?
>
> Chris
>
> 2009/11/11 <n6wk@...>
>
>
>>
>> Hi Chris,
>> I think you mean the Plate Choke.
>> I can't imagine you being able to melt the tank coil.
>> 73,
>> Gordon
>> N6WK
>>
>>
>> sv0xbq wrote:
>> >
>> >
>> > Hi Everyone,
>> > I was working on a sound card interface and had the radio on listening
>> > to cw like you do. I must have caught the send switch at some time and
>> > before long I got the dreaded smell of something far too hot. The tank
>> > coil is U/S but everything else looks ok. Has anyone rewound a tank
>> > coil successfully? What gauge is the wire and how many turns are
>> > there? How critical is the tank coil construction?
>> >
>> > Doh..... I'll leave the heater switch off in future.
>> >
>> > Chris SV0XBQ
>> >
>> >
>> >
>>
>>
>>
>

>

[Non-text portions of this message have been removed]

23366. TRIO TS-820D for sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-11 17:32:15 UTC
From: jorgensentech
Topic: 23366 Message: 23366

Hello to the group.

I have available a Trio TS-820D. It includes the transceiver and the power cord only. I have uploaded two photos so far of the rig to the Photos section of the group under an album named after my call sign KD6RRR. I originally bought this radio when I was still a no code tech to listen to HF and practice receiving CW. The ham I bought it from was 97 years old and told me it was the best rig he ever owned. However, by the time I reached General and Extra, I had relocated to a new home where I have yet to engineer a stealthy enough antenna to keep the neighbors happy, so I have NOT transmitted with the radio, and cannot verify what he told me. Cosmetically it is used, with scuffs and scratches, but none that affect viewing the controls and settings. All the lamps light up. The 5 toggle switches on the left side of the face are missing 4 of the toggles as the photo I uploaded shows. The switches still function, but now you have to flip them with a fingernail or pen. All knobs and rotary switches work fine. Of the three push on push off button controls, the RF ATT works normal, however the RIT and the DH ones are sticky and must be pulled out after depressing them. The digital display is installed but I assume is disconnected or is not functioning as it has never lit up and I have not had the noise on the receive that some have complained about with this option. I am asking $250 shipped for the rig. Please email or call five four one dash eight eight seven dash zero zero zero five with any questions you may have. Thank you for your time and hope to hear from you soon.

23367. New file uploaded to TS-520_820_530_830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-11 20:34:50 UTC
From: TS-520_820_530_830@yahoogroups.com
Topic: 262 Message: 23367

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the TS-520_820_530_830
group.

File : /SM-220_BS-8_with_TS530S.pdf
Uploaded by : kj4aur <kj4aur@...>
Description : BS-8 SM-220 installation instructions in for the TS-530S

You can access this file at the URL:
http://groups.yahoo.com/group/TS-520_820_530_830/files/SM-220_BS-8_with_TS530S.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/general.htmlfiles

Regards,

kj4aur <kj4aur@...>

23368. Re: [TS-520_820_530_830] New file uploaded to TS-520_820_530_830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-11 20:51:34 UTC
From: Nathan Fowler
Topic: 262 Message: 23368

This is a verbose instructional PDF with images for installation of the SM-220 BS-8 on the TS-530S. This new document obsoletes the ASCII-only document titled 'SM-220 to TS-530S' uploaded by n9wb. Walter would you mind removing the obsoleted document?

Thanks and 73

-Nathan/KJ4AUR

--- On Wed, 11/11/09, TS-520_820_530_830@yahoogroups.com <TS-520_820_530_830@yahoogroups.com> wrote:

From: TS-520_820_530_830@yahoogroups.com <TS-520_820_530_830@yahoogroups.com>
Subject: [TS-520_820_530_830] New file uploaded to TS-520_820_530_830
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, November 11, 2009, 8:34 PM

Hello,

This email message is a notification to let you know that

a file has been uploaded to the Files area of the TS-520_820_530_ 830

group.

File : /SM-220_BS-8_ with_TS530S. pdf

Uploaded by : kj4aur <kj4aur@yahoo. com>

Description : BS-8 SM-220 installation instructions in for the TS-530S

You can access this file at the URL:

http://groups. yahoo.com/ group/TS- 520_820_530_ 830/files/ SM-220_BS- 8_with_TS530S. pdf

To learn more about file sharing for your group, please visit:

http://help. yahoo.com/ l/us/yahoo/ groups/original/ general.htmlfile s

Regards,

kj4aur <kj4aur@yahoo. com>

[Non-text portions of this message have been removed]

23369. ts 520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-11 21:23:37 UTC
From: w1ltx
Topic: 12881 Message: 23369

hi guys
ok i feel i no the answer to my question i guest i want to no for sure on my ts520 i'm tuned on 20 meter now will it still be in tune the next day or will i need to retune.
bob w1ltx

23370. Re: ts 520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-11 21:35:21 UTC
From: w5rkl
Topic: 12881 Message: 23370

Hello Bob,

As long as you do not change the settings you will not have to retune the next day or even a month from now.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "w1ltx" <w1ltx1@...> wrote:
>
> hi guys
> ok i feel i no the answer to my question i guest i want to no for sure on my ts520 i'm tuned on 20 meter now will it still be in tune the next day or will i need to retune.
> bob w1ltx
>

23371. Re: [TS-520_820_530_830] Re: ts 520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-11 21:48:04 UTC
From: barrie@eos.net
Topic: 12881 Message: 23371

A good operating practice is ALWAYS check the tune up. By doing a full tune up. What would happen if something broke out on the antenna and you did not check the tune?
Sent via BlackBerry from T-Mobile

-----Original Message-----
From: "w5rkl" <w5rkl@...>
Date: Wed, 11 Nov 2009 21:35:21
To: <TS-520_820_530_830@yahoogroups.com>
Subject: [TS-520_820_530_830] Re: ts 520

Hello Bob,

As long as you do not change the settings you will not have to retune the next day or even a month from now.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "w1ltx" <w1ltx1@...> wrote:
>
> hi guys
> ok i feel i no the answer to my question i guest i want to no for sure on my ts520 i'm tuned on 20 meter now will it still be in tune the next day or will i need to retune.
> bob w1ltx
>

[Non-text portions of this message have been removed]

23372. Re: [TS-520_820_530_830] Re: ts 520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-11 23:18:00 UTC
From: robert sessums
Topic: 12881 Message: 23372

thanks guys.
w1ltx

On Wed, Nov 11, 2009 at 1:48 PM, <barrie@eos.net> wrote:

>
>
> A good operating practice is ALWAYS check the tune up. By doing a full tune
> up. What would happen if something broke out on the antenna and you did not
> check the tune?
> Sent via BlackBerry from T-Mobile
>
>
> -----Original Message-----
> From: "w5rkl" <w5rkl@... <w5rkl%40yahoo.com>>
> Date: Wed, 11 Nov 2009 21:35:21
> To: <TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> >
> Subject: [TS-520_820_530_830] Re: ts 520
>
> Hello Bob,
>
> As long as you do not change the settings you will not have to retune the
> next day or even a month from now.
>
> 73s
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> "w1ltx" <w1ltx1@...> wrote:
> >
> > hi guys
> > ok i feel i no the answer to my question i guest i want to no for sure on
> my ts520 i'm tuned on 20 meter now will it still be in tune the next day or
> will i need to retune.
> > bob w1ltx
> >
>
> [Non-text portions of this message have been removed]
>
>
>

[Non-text portions of this message have been removed]

23373. Beware *** WB6LDL *** Barry Lenzer

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-12 04:24:02 UTC
From: n6wk_skcc3
Topic: 23373 Message: 23373

Hi Friends,
Please BEWARE when dealing with Barry Lenzer WB6LDL.
His MO appears to be that he offers to buy from you and then after a week or two finds a reason to send the item back.
Recently he asked me for a TS-520 to VFO 520 cable. I shipped one out to him without first being paid which I always do because I trust everyone. After 2 weeks, I didn't hear back from him , so I sent a reminder email. His response was: Oh, I used your cable and it worked great but the VFO I bought didn't work so I am going to return your cable and pay for your shipping. Sounded fair, even though he had already used the cable and agreed it worked Great! After about a week, I received the cable but NOTHING to cover my Priority Mail postage or the cost of a bubble mailer. I sent him an email asking about the refund to me on my shipping charges..... Nothing. So after 8 more days, I sent him another email , again asking for the reimbursement. This time he became very nasty to me. Called me Cheap said I was the worse Ham he had ever met in 55 years and that I was harassing him. Said that he already sent me $10.00 and if I lost it, it was MY problem.
Truth be told, there was NO $10.00 sent to me and he seems to do this sort of thing on other deals. Please BEWARE of him!!!
I don't want to say he might be Lying but..... you be the Judge.
Gordon
N6WK

23374. Re: [TS-520_820_530_830] Beware *** WB6LDL *** Barry Lenzer

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-12 05:01:43 UTC
From: Charlie , W5COV
Topic: 23373 Message: 23374

Yes I googled him and would suggest that you read the experiences of others who have dealt with him BEFORE you do a deal with him .

I don't know the gentleman and had never heard of him , until his call was posted on here and , after reading the many experiences , that are posted , I suggest you take a look also .

Charlie , W5COV

[Non-text portions of this message have been removed]

23375. Re: [TS-520_820_530_830] Beware *** WB6LDL *** Barry Lenzer

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-12 07:05:41 UTC
From: Ruben Echevarria
Topic: 23373 Message: 23375

Was there supposed to be a link with this posting?
 Ruben Echevarria KA2HHB
070 Club#861 30MDG#1148
10-10#33308

From: "Charlie , W5COV" <cvest@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thu, November 12, 2009 12:01:43 AM
Subject: Re: [TS-520_820_530_830] Beware *** WB6LDL *** Barry Lenzer

Yes I googled him and would suggest that you read the experiences of others who have dealt with him BEFORE you do a deal with him .

I don't know the gentleman and had never heard of him , until his call was posted on here and , after reading the many experiences , that are posted , I suggest you take a look also .

Charlie , W5COV

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23376. FS: My TS-520 Station

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-12 12:56:27 UTC
From: jmcgsd
Topic: 23376 Message: 23376

I have decided to sell my TS-520s station. I am getting into even older stuff (Swan and Drake) and need the room.

The station consists of a TS-520S with 270hz CW filter, an MC-50 microphone and an AT-230 tuner. It works absolutely flawlessly and looks are close to mint. It comes with copies of the manuals for the transceiver and antenna tuners, the service manual for the transceiver on CD, bound copies of many fixes and mods for the 520, and the original Kenwood manual for the MC-50. I am asking $600 plus shipping for everything and would consider an antenna tuner that could handle 600W as partial trade. If you are interested please email me at af6ni at arrl dot net.

Thanks.
Joe

23377. kenwood ts 530sp VFO drift on transmit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-12 03:34:28 UTC
From: Eric Zerkle
Topic: 23377 Message: 23377

Hello all i have a TS 530SP that has a drift problem on TX. When it sets for a while it will stabilise like it should but when i transmit it will drift down a few hertz. Anyone have any ideas what the issue might be?

[Non-text portions of this message have been removed]

23379. Re: [TS-520_820_530_830] kenwood ts 530sp VFO drift on transmit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-12 18:05:40 UTC
From: Jim Stanicek
Topic: 23377 Message: 23379

How many Hz is a "few hertz". What kind of mode are you experiencing this "few hertz" drift on? I would not think that a "few hertz" drift would be all that much of a problem with a rig of that age. But I may be mistaken.

Please tell us more about how many Hz drift you are experiencing.

You may not have a problem at all

----- Original Message -----
From: Eric Zerkle
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, November 11, 2009 10:34 PM
Subject: [TS-520_820_530_830] kenwood ts 530sp VFO drift on transmit

Hello all i have a TS 530SP that has a drift problem on TX. When it sets for a while it will stabilise like it should but when i transmit it will drift down a few hertz.
Anyone have any ideas what the issue might be?

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23380. RE: [TS-520_820_530_830] kenwood ts 530sp VFO drift on transmit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-12 18:14:43 UTC
From: Greg Anders
Topic: 23377 Message: 23380

Most 530's and 830's drift. Some drift more than others. They all drift more during the first 30 minutes but I have owned 3 830's and 2 530's and all of them drifted some even after warmup. The remote VFO's didn't drift one bit. So, I attributed the drift I saw to the heat inside the cabinet from the driver and finals. A good friend of mine actually studied the drift characteristics of the 830s and found that there were two different tuning caps used in the VFO's, one using phenolic spacers on the rotor plates, the other using a white "plastic". He said that you can "never" stabilize a unit with the phenolic spacers but he was able to stabilize an 830S with the plastic spacers by replacing some of the NPO capacitors with higher compensation parts. However, he spent several weeks calculating the required caps. Currently, there is another Ham in southern Oregon I know who is trying to refit his VFO (white plastic spacers). I will wait to see his results.

FWIW,

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jim Stanicek
Sent: Thursday, November 12, 2009 10:06 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] kenwood ts 530sp VFO drift on transmit

How many Hz is a "few hertz". What kind of mode are you experiencing this "few hertz" drift on? I would not think that a "few hertz" drift would be all that much of a problem with a rig of that age. But I may be mistaken.

Please tell us more about how many Hz drift you are experiencing.

You may not have a problem at all

----- Original Message -----
From: Eric Zerkle
To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
Sent: Wednesday, November 11, 2009 10:34 PM
Subject: [TS-520_820_530_830] kenwood ts 530sp VFO drift on transmit

Hello all i have a TS 530SP that has a drift problem on TX. When it sets for a while it will stabilise like it should but when i transmit it will drift down a few hertz.
Anyone have any ideas what the issue might be?

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23381. Re: [TS-520_820_530_830] Beware *** "Jeff Campbell, WA4ZVG" ***

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-12 18:55:32 UTC
From: Dave & Loraine
Topic: 23381 Message: 23381

Off-topic.
73 Dave f4eyk

23382. Re: [TS-520_820_530_830] kenwood ts 530sp VFO drift on transmit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-12 19:51:47 UTC
From: martin
Topic: 23377 Message: 23382

Hi Eric. Are you saying that the frequency drops "a few hertz" in transmit, and then goes back to the original frequency on receive? How do you know this, as the Digital display on the TS-530SP only reads in 10 hertz steps?

My TS-530S drifts about 100 HZ per half hour, which is what is specified in the manual after warmup. You can measure the amount of drift that you have in the following manner:

If you are set up for PSK or other digital mode operation. connect your interface. If not, you can connect a cable from the headphone jack on the radio to the line in on your computer sound card, or even just place mic connected to the computer sound card near the radio speaker.

Tune the radio to WWV, and start your PSK software. I use Digipan. Tune the VFO so that you see the WWV carrier on the waterfall display. Click on the center of the carrier., and write down the time and the audio frequency shown in the program. Check again at 15 minute intervals, and write down the time and audio frequency. The difference in the audio frequency is the amount of drift. After about 20 minutes or so, the drift should be minimal(50Hz or less in any 15 minute period after warm-up)

Since WWV is a frequency standard, what you are seeing is the VFO drift (and and drift in the sound card)

Eric Zerkle wrote:
> Hello all i have a TS 530SP that has a drift problem on TX. When it
> sets for a while it will stabilise like it should but when i
> transmit it will drift down a few hertz. Anyone have any ideas what
> the issue might be?
>
>
>
>
> [Non-text portions of this message have been removed]
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html

"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

23383. RE: [TS-520_820_530_830] kenwood ts 530sp VFO drift on transmit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-12 20:29:48 UTC
From: Eric Zerkle
Topic: 23377 Message: 23383

Id be interested in seeing what those spacers would do for my rig.
I had noticed that the mode switch was dirty and i gave it a spritz with some cleaner and now the rig seems to be more stable.
It seems like it desont drift quite a much now.,
Im thinking that maybe the rig might need a tuneup. the p[revious owner said he had it retuned back in the late 1980s so id say its time for a tuneup.

K9FON

[Non-text portions of this message have been removed]

23384. TS-830 Meter Not Working ...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-12 20:56:17 UTC
From: Chris
Topic: 23384 Message: 23384

Just received an 830 but the meter doesn't function. It works (deflects) when the RF Gain control is advanced but not for ALC, Comp, Tuning, RF Receive, or HV (no deflection at all). It's almost as if there is a meter on / off switch ... stuck in off. Ideas / suggestions? Thanks.

Chris Kochenour
WD1W

23385. Beware *** "Jeff Campbell, WA4ZVG" ***

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-12 20:38:11 UTC
From: Eric Zerkle
Topic: 23378 Message: 23385

Hmm i got a AM filter from him for a FT 101EE once and he asked me if i was a CB op. I replied that i was a general class ham and i was going to use it for AM operation on 160 and 75 meters. He then asked me if i was a 13 or a 5 WPM General and i replied what difference does it make and his reply was "It makes a HUGE difference!" I take it he has a major attitide problem just from the wording in his Ebay descriptions and the emails i have gotten from the guy.

K9FON

[Non-text portions of this message have been removed]

23386. Re: TS-830 Meter Not Working ...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-12 22:57:17 UTC
From: w5rkl
Topic: 23384 Message: 23386

The only meter function in receive is the displaying of incoming signal strength in S units. The other meter functions, ALC, HV, IP, RF, and COMP, display ONLY in transmit, not receive.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Chris" <kochenourchris@...> wrote:
>
> Just received an 830 but the meter doesn't function. It works (deflects) when the RF Gain control is advanced but not for ALC, Comp, Tuning, RF Receive, or HV (no deflection at all). It's almost as if there is a meter on / off switch ... stuck in off. Ideas / suggestions? Thanks.
>
> Chris Kochenour
> WD1W
>

23387. Beware *** "Jeff Campbell, WA4ZVG" ***

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-13 07:18:30 UTC
From: Allan Cridland
Topic: 23387 Message: 23387

Hmmm again! He is a bit of a worry. I googled him and saw some of his comments, yet he is a ham operator who is actively selling 11 meter crystals to modify FT-101's for CB use....Hmmm!

Allan VK4JAC

[Non-text portions of this message have been removed]

23388. TS520S TUN position not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-13 00:08:26 UTC
From: jaiden0
Topic: 23388 Message: 23388

Greetings all. I am a new ham and even newer to HF, and my HF rig is an inherited TS-520S that sat on a shelf for 25 years or so. It does seem to *mostly* work, but I have had some trouble with it. For this post, I'll focus on one issue that is clearly definable and easy to reproduce.

The TUN position of my TS-520S doesn't seem to work. The frequency displayed on the DG-5 is fixed for each band, and the VFO does nothing. The frequencies displayed for each band are:

1.8 -- 0.694.8
3.5 -- 2.396.5
7 -- 5.895.1
14 -- 12.895.2
21 -- 19.895.3
28 -- 26.894.8
28.5 -- 27.395.5
29.1 -- 27.995.3

Clearly something is wrong with the TUN position, since the other positions seem to work OK. I have made contacts on 20 and 40 meters, though I still have a LOT to learn about this old radio. I am not afraid of a soldering iron, but I'm not going to go poking around unless I know what I'm looking for.

Thanks in advance for any advice you can give.

23389. Re: [TS-520_820_530_830] =?windows-1256?Q?Beware=A0=A0_***_=22Jeff_Campbell=2...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-13 00:41:12 UTC
From: JOHNQRZ@AOL.COM
Topic: 23389 Message: 23389

Seems to me most came with 11 meters KG6CZX

[Non-text portions of this message have been removed]

23390. Re: [TS-520_820_530_830] Yaesu FT-101's and What Came With Them....

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-13 00:50:29 UTC
From: Joe
Topic: 23390 Message: 23390

Mine did...

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: <JOHNQRZ@...>

>
>
> Seems to me most came with 11 meters KG6CZX
>

23391. Re: [TS-520_820_530_830] Yaesu FT-101's and What Came With Them....

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-13 00:54:06 UTC
From: Ruben Echevarria
Topic: 23390 Message: 23391

Nope had to order them from JAN ...
 Ruben Echevarria KA2HHB
070 Club#861 30MDG#1148
10-10#33308

From: Joe <WA6RKN@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thu, November 12, 2009 7:50:29 PM
Subject: Re: [TS-520_820_530_830] Yaesu FT-101's and What Came With Them....

Mine did...

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: <JOHNQRZ@AOL. COM>

>
>
> Seems to me most came with 11 meters KG6CZX
>

[Non-text portions of this message have been removed]

23393. Re: [TS-520_820_530_830] UNSUBSCRIBE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-13 01:17:35 UTC
From: Ruben Echevarria
Topic: 23392 Message: 23393

You have to go to the Yahoo Group Site to unsubscribe ....
Same site that you went to to subscribe .....
 Ruben Echevarria KA2HHB
070 Club#861 30MDG#1148
10-10#33308

From: WN9D <wn9d@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thu, November 12, 2009 7:38:07 PM
Subject: [TS-520_820_530_830] UNSUBSCRIBE

UNSUBSCRIBE

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23394. Re: [TS-520_820_530_830] UNSUBSCRIBE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-13 01:21:00 UTC
From: Dave ve3wej
Topic: 23392 Message: 23394

or click on link below here

TS-520_820_530_830-unsubscribe@yahoogroups.com

23395. Tuning TS 830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-13 01:25:50 UTC
From: gyancey52
Topic: 23395 Message: 23395

I got the hang of how to tune my rig I just have a few questions to help tweek it just right. When properly tuned the insturctions say you should end up with 100 watts more or less. If you want less than 100 watts for one reason or another do you adjust the load or drive control or neither. I was told by the guy I bought it from to just turn the mic gain down, but that doesn't make sense to me, seems that would only screw up your audio and sound like garbage.
Also when changeing frequencies do you start all over again from the beginning adjusting load, plate current, re-dipping, etc or is there a short cut after getting the initial settings.
When adjusting the mic gain can you do that with the dummy load or do you need to be on air.
Sorry for all the questions, I just want to make sure I'm doing it right. The radio is puring like a kitten, just want to keep it happy.

23396. Re: FS: My TS-520 Station .. I meant 530s!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-13 02:14:48 UTC
From: jmcgsd
Topic: 23376 Message: 23396

Well I obviously wrote this at the crack of dawn. I meant 530s, not 520s!

--- In TS-520_820_530_830@yahoogroups.com, "jmcgsd" <astro_crazy@...> wrote:
>
> I have decided to sell my TS-520s station. I am getting into even older stuff (Swan and Drake) and need the room.
>
> The station consists of a TS-520S with 270hz CW filter, an MC-50 microphone and an AT-230 tuner. It works absolutely flawlessly and looks are close to mint. It comes with copies of the manuals for the transceiver and antenna tuners, the service manual for the transceiver on CD, bound copies of many fixes and mods for the 520, and the original Kenwood manual for the MC-50. I am asking $600 plus shipping for everything and would consider an antenna tuner that could handle 600W as partial trade. If you are interested please email me at af6ni at arrl dot net.
>
> Thanks.
> Joe
>

23397. Re: [TS-520_820_530_830] Re: ts 520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-13 02:51:26 UTC
From: John Davidson
Topic: 12881 Message: 23397

That should have been "as long as you don't change frequencies too far.....you will not have to retune..."
If you don't change the VFO more than a hundred kHz, or change bands , no retuning, of plate, load or driver capacitors....
--- On Wed, 11/11/09, w5rkl <w5rkl@...> wrote:

, November 11, 2009, 4:35 PM

Hello Bob,

As long as you do not change the settings you will not have to retune the next day or even a month from now.

73s
Mike W5RKL

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.

[Non-text portions of this message have been removed]

23398. 520 Parts Needed

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-13 05:30:19 UTC
From: jsloss
Topic: 23398 Message: 23398

Need the 1st and 2nd bandswitch wafers when counting from the rear to the front. Whole BS from a parts unit would also work.

Service Hint: Don't ever forget to connect the RF output connector to your dummy load when servicing the transmitter. It does not take much 14 Mc energy to arc over a switch contact! This simple oversight instantly created several hours of unnecessary additional restoration work.

Joe k7mks

[Non-text portions of this message have been removed]

23399. Plate Choke details for TS-830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-13 06:29:25 UTC
From: sv0xbq
Topic: 23399 Message: 23399

Hi Folks,

Can anyone confirm the plate choke construction for a TS-830 before I order the wire.

I make it 200 turns of 36 SWG. Is this correct?

Chris

23400. Re: ts 520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-13 14:29:46 UTC
From: w5rkl
Topic: 12881 Message: 23400

That is what the statement:

"As long as you do not change the settings.."

meant which includes the VFO.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, John Davidson <k8jd@...> wrote:
>
>
> That should have been "as long as you don't change frequencies too far.....you will not have to retune..."
> If you don't change the VFO more than a hundred kHz, or change bands , no retuning, of plate, load or driver capacitors....
> --- On Wed, 11/11/09, w5rkl <w5rkl@...> wrote:
>
> , November 11, 2009, 4:35 PM
>
>
> Â
>
>
>
> Hello Bob,
>
> As long as you do not change the settings you will not have to retune the next day or even a month from now.
>
> 73s
> Mike W5RKL
>
>
> to sender | Reply to group Messages in this topic (15)
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> [Non-text portions of this message have been removed]
>

23401. Estate Sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-13 16:30:14 UTC
From: Joe
Topic: 23401 Message: 23401

I don't know if Dave will ship..you would have to call and ask him. This equipment is PRIMO.

(I am rounding out my Drake collection from this....)

Joe Wolfe
WA6RKN
Reno, Nevada
****

The link below shows a picture of the collection of "Shally" K6VHP, sk. who lived in Eureka, CA. Dave Fortenberry, NA6DF is helping to dispose of this marvelous collection at his store, Radio Supply Company in Auburn, CA. Shally was a dear friend who had a lifetime collection of vintage radios and was meticulous with every piece of gear he touched. (Shally is missed more than you know). He could revive, fix, repair and bring new life back to just about anything. He had everybody's "first radio" in his collection. Contact Dave direct for more information regarding this inventory. You can see some of it for yourself at:

http://www.radiosupplyco.com/k6vhp.html

23402. Great diagnistic skills

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-13 03:19:12 UTC
From: kevin
Topic: 23402 Message: 23402

I bought a 530 from E-Bay recently. I thought it might be a nice upgrade from my 520. Receive worked well and I liked the digital display. But I couldn't get it to tune up. No drive no nothing. Like a good member I spent several hours combing the messages to see if I could find any insight. Try searching for "drive" in the messages sometime. Finally I figured I'd better open it up and see if anything was obvious. That much I also learned here.
I did open it up and thanks to my great diagnostic skill found the problem right away - No tubes. I have been laughing at myself all evening. Check the simple and the obvious is the lesson to be learned here.
73
Kevin

23403. My Amateur Radio Web Pages

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-13 02:46:43 UTC
From: Music Maker
Topic: 23403 Message: 23403

.

Hello again Happy Campers!

Firstly, thanks to those who were kind enough to respond to my first post, introducing myself, which I thought was a common courtesy when joining a Group ! We Brits are a bit of a 'stuffy' lot when it comes to manners and etiquette ! HI !

While I am awaiting the re-issue of my licence, I have been doing a bit of work on my web site, which covers not only my Amateur Radio Hobby, but also my Dogs, Camping, and my somewhat dubious Musical talents.

I only decided on a mad impulse about 10 days ago, to take up Amateur Radio again, after being 'quiet' for over 40 years, and I am doing a 'sort of'' Blog, which could make interesting reading for those members of this Group, who have time to waste reading codswallop rather than morse !!!

My Amateur Radio Page can be found at :-
http://www.john4music.tv/7.html <http://www.john4music.tv/7.html>

I hope it is interesting to people other than myself! HI

73 de John

'Support the Arts - Feed A Musician !'

I was born with nothing..... 74 years later, I still have most of it left !

I am a 'Licenced Radio Amateur' ... NOT a 'Radio Ham'

[Non-text portions of this message have been removed]

23404. TS530S psu

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-13 18:45:21 UTC
From: richard
Topic: 23404 Message: 23404

Hi
I've noticed the HT on Tx has dropped to about 400V, off load its just under 800V.
Diodes D1 to D4 look OK I'm suspecting the two electrolytic Caps C22 & C24.

However between the 400V and 800 point on the rectifier unit there is only about 65V.
To me this is wired as a voltage doubler,, yet the transformer is marked as 0, 400, 800 , in the service manual. That looks wrong into a voltage doubler, 1600V on a 6146 would give a lot more power, but not for long.

Could someone please let me know what the secondary voltages are in real life, on and off load. Measured at AC800, AC400,GND. and across the secondary windings as well please.

Its not dry joints as I've already dealt with those on the rectifier unit.

TNX
--
Best wishes

Richard Bown

##
Registered Linux User 36561
OS: Mandriva 2010.0 Powerpack on an AMD Dual Athlon 64 +4400: 8 GB RAM DDR2 Ham Call: G8JVM , QRA IO82SP, Interests Microwave 1.3 GHz,2.3 GHz & 5.7GHz & 10 GHz
##

23405. Re: [TS-520_820_530_830] Estate Sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-13 19:15:50 UTC
From: n6wk@n6wk.com
Topic: 23401 Message: 23405

Joe,
Do you know when a List of items and asking price is going to be available?

Thanks,
Gordon
N6WK

Joe wrote:
>
>
> I don't know if Dave will ship..you would have to call and ask him. This
> equipment is PRIMO.
>
> (I am rounding out my Drake collection from this....)
>
> Joe Wolfe
> WA6RKN
> Reno, Nevada
> ******************************
>
> The link below shows a picture of the collection of "Shally" K6VHP,
> sk. who
> lived in Eureka, CA. Dave Fortenberry, NA6DF is helping to dispose of this
> marvelous collection at his store, Radio Supply Company in Auburn, CA.
> Shally was a dear friend who had a lifetime collection of vintage radios
> and was meticulous with every piece of gear he touched. (Shally is missed
> more than you know). He could revive, fix, repair and bring new life back
> to just about anything. He had everybody's "first radio" in his
> collection. Contact Dave direct for more information regarding this
> inventory. You can see some of it for yourself at:
>

23406. Re: Tuning TS 830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-13 19:17:43 UTC
From: nospamvictim
Topic: 23395 Message: 23406

The answer is neither.

Any mistuning of the PLATE, LOAD or DRIVE WILL RESULT IN GARBAGE AND HARMONICS and risk damage to the tubes. Note that these controls are for TUNING the stages.

To reduce the drive LEVEL and so the power on CW, reduce the CARRIER and for SSB, reduce the MIC gain, but DO NOT MISTUNE DRIVER AND FINAL stages. If you want ALC action to reduce the power then introduce ALC voltage (9v battery and pot?) to the ALC line to cut the power back, and set mic or carrier accordingly for proper ALC indication. This is of some value for SSB, but not recommended for digital operations. If you want to cut the power down for a transverter or AMP, use an external attenuator for more than a 1/3rd reduction.

Fully loaded, mine shows ~120 watts CW with about 240 mils IP. Always tune up for maximum output. Plate current dip should be very shallow and coincide closely with maximum output or you need to neutralize.

--- In TS-520_820_530_830@yahoogroups.com, "gyancey52" <gyancey52@...> wrote:
>
> I got the hang of how to tune my rig I just have a few questions to help tweek it just right. When properly tuned the insturctions say you should end up with 100 watts more or less. If you want less than 100 watts for one reason or another do you adjust the load or drive control or neither. I was told by the guy I bought it from to just turn the mic gain down, but that doesn't make sense to me, seems that would only screw up your audio and sound like garbage.
> Also when changeing frequencies do you start all over again from the beginning adjusting load, plate current, re-dipping, etc or is there a short cut after getting the initial settings.
> When adjusting the mic gain can you do that with the dummy load or do you need to be on air.
> Sorry for all the questions, I just want to make sure I'm doing it right. The radio is puring like a kitten, just want to keep it happy.
>

23407. RE: [TS-520_820_530_830] Estate Sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-13 19:19:44 UTC
From: Greg Anders
Topic: 23401 Message: 23407

FYi,

I will inquire tomorrow morning. I know Dave well and talk to him on a 75M net daily. I saw some of the stuff a month ago when I was at his shop, there is a "ton", good parts included.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n6wk@...
Sent: Friday, November 13, 2009 11:16 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Estate Sale

Joe,
Do you know when a List of items and asking price is going to be available?

Thanks,
Gordon
N6WK

Joe wrote:
>
>
> I don't know if Dave will ship..you would have to call and ask him. This
> equipment is PRIMO.
>
> (I am rounding out my Drake collection from this....)
>
> Joe Wolfe
> WA6RKN
> Reno, Nevada
> ******************************
>
> The link below shows a picture of the collection of "Shally" K6VHP,
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> lived in Eureka, CA. Dave Fortenberry, NA6DF is helping to dispose of this
> marvelous collection at his store, Radio Supply Company in Auburn, CA.
> Shally was a dear friend who had a lifetime collection of vintage radios
> and was meticulous with every piece of gear he touched. (Shally is missed
> more than you know). He could revive, fix, repair and bring new life back
> to just about anything. He had everybody's "first radio" in his
> collection. Contact Dave direct for more information regarding this
> inventory. You can see some of it for yourself at:
>

[Non-text portions of this message have been removed]

23408. RE: [TS-520_820_530_830] TS530S psu

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-13 19:16:31 UTC
From: Greg Anders
Topic: 23404 Message: 23408

If I understand your situation correctly, you are seeing 800V no-load and only 400V full load.
If this is true you have a problem. No load should be 800-850V and at ~100watts output you should see 750V or better.

Sounds like filter caps or rectifier diodes are bad to me. I would just replace both caps and all the diodes...

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of richard
Sent: Friday, November 13, 2009 10:45 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS530S psu

Hi
I've noticed the HT on Tx has dropped to about 400V, off load its just under 800V.
Diodes D1 to D4 look OK I'm suspecting the two electrolytic Caps C22 & C24.

However between the 400V and 800 point on the rectifier unit there is only about 65V.
To me this is wired as a voltage doubler,, yet the transformer is marked as 0, 400, 800 , in the service manual. That looks wrong into a voltage doubler, 1600V on a 6146 would give a lot more power, but not for long.

Could someone please let me know what the secondary voltages are in real life, on and off load. Measured at AC800, AC400,GND. and across the secondary windings as well please.

Its not dry joints as I've already dealt with those on the rectifier unit.

TNX
--
Best wishes

Richard Bown

Registered Linux User 36561
OS: Mandriva 2010.0 Powerpack on an AMD Dual Athlon 64 +4400: 8 GB RAM DDR2 Ham Call: G8JVM , QRA IO82SP, Interests Microwave 1.3 GHz,2.3 GHz

& 5.7GHz & 10 GHz
##

[Non-text portions of this message have been removed]

23409. Re: [TS-520_820_530_830] YG 88s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-13 19:32:51 UTC
From: John Becker
Topic: 20504 Message: 23409

Check the filter "caps" with an ohm meter first.
If not shorted or swelled up got for it.

2nd your message was not formatted well.
Did you not use the enter key?
Work wrap really sucks on some of these list.

23410. Plate tuning pops fuse

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-13 19:23:59 UTC
From: k4jdp
Topic: 23410 Message: 23410

On my TS-830s I turn on the power, leave the heater switch off. I move the plate tuning knob clockwise to 21, 24, and 28 mhz setting range and the fuse pops. Has this happenned to anyone else? How did you correct it? This is not in the tune process.
73's de K4JDP-John

23411. Re: [TS-520_820_530_830] =?windows-1256?Q?Beware=A0=A0_***_=22Jeff_Campbell=2...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-13 19:56:46 UTC
From: martin
Topic: 23389 Message: 23411

Hi. Some early FT-101radios came with an 11M position on the band switch. Later units did not. I had two that did not, but I have seen a couple of FT-101Bs that did. I would say that asking if you were going to use the radio for CB is a legitimate question. The FT-101 radios are still very popular with CBers, because they are easy to modify, and have AM mode built in.

His other question however was both irrelevant and insulting. He is obviously one of those "sour grapes" guys that thinks that "I had to take the higher speed code tests, so everyone else should too". About all you can do is ignore the few that have that kind of attitude. It actually makes no difference to most Hams (and of course no difference to the FCC) when you got your license, or what (if any) code test that you took.

It is possible to modify a Kenwood TS-520 to operate in AM mode. I used to have one that was so modified...I never did figure out how to undo that, though I replaced the CB crystals and re-aligned the radio. I believe that Kenwood decided not to include AM mode in the TS-5XX and TS-8XX series radios so that they would be less attractive to CBers looking to illegally modify an Amateur Radio for CB use.

TTYL

JOHNQRZ@... wrote:
>
>
> Seems to me most came with 11 meters KG6CZX
>
>
>
>
> [Non-text portions of this message have been removed]
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at http://www.defectivebydesign.org/what_is_drm"

23412. Re: [TS-520_820_530_830] My Amateur Radio Web Pages

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-13 20:15:28 UTC
From: martin
Topic: 23403 Message: 23412

Hi John. Nice web site! One thing I see that you have not mentioned
is whether or not you have a dummy load. You will need one. They can
be found numerous places online, or you can build your own. I
recently built one for a friend which is very similar to the one shown
on Ken's (K4EAA) web site at http://k4eaa.com/dummy.html

The one I built has a few minor but un-importamt differences. It
works very well! I have written up how I built the dummy load, and
sooner or later will get around to making a page on my web site for
it. My web site is at
http://home.mchsi.com/~kb0hae/index.htm
On the site you can see a photo of my current "shack" setup.

TTYL

Music Maker wrote:
> .
>
>
>
> Hello again Happy Campers!
>
> Firstly, thanks to those who were kind enough to respond to my first
> post, introducing myself, which I thought was a common courtesy when
> joining a Group ! We Brits are a bit of a 'stuffy' lot when it comes
> to manners and etiquette ! HI !
>
> While I am awaiting the re-issue of my licence, I have been doing a bit
> of work on my web site, which covers not only my Amateur Radio Hobby,
> but also my Dogs, Camping, and my somewhat dubious Musical talents.
>
> I only decided on a mad impulse about 10 days ago, to take up Amateur
> Radio again, after being 'quiet' for over 40 years, and I am doing a
> 'sort of'' Blog, which could make interesting reading for those members
> of this Group, who have time to waste reading codswallop rather than
> morse !!!
>
> My Amateur Radio Page can be found at :-
> http://www.john4music.tv/7.html <http://www.john4music.tv/7.html>
>
> I hope it is interesting to people other than myself! HI
>
> 73 de John
>
> 'Support the Arts - Feed A Musician !'
>

> I was born with nothing..... 74 years later, I still have most of it
> left !
>
> I am a 'Licenced Radio Amateur' ... NOT a 'Radio Ham'
>
>
>
> [Non-text portions of this message have been removed]
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

23413. Re: [TS-520_820_530_830] Plate tuning pops fuse

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-13 21:13:50 UTC
From: n6wk@n6wk.com
Topic: 23410 Message: 23413

John,
Check to see if any of the Plates on the Plate tuning cap are bent and
touching.

Gordon
N6WK

k4jdp wrote:
>
> On my TS-830s I turn on the power, leave the heater switch off. I move
> the plate tuning knob clockwise to 21, 24, and 28 mhz setting range
> and the fuse pops. Has this happenned to anyone else? How did you
> correct it? This is not in the tune process.
> 73's de K4JDP-John
>
>

23414. RE: [TS-520_820_530_830] Plate tuning pops fuse

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-13 21:45:24 UTC
From: Greg Anders
Topic: 23410 Message: 23414

Gordon is right-on. The stator plates have HV on them and the rotor is grounded. If plates from one touch the other you have a HV short to ground, "el-blowish-fuses".

Greg

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n6wk@...
Sent: Friday, November 13, 2009 1:14 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Plate tuning pops fuse

John,
Check to see if any of the Plates on the Plate tuning cap are bent and touching.

Gordon
N6WK

k4jdp wrote:
>
> On my TS-830s I turn on the power, leave the heater switch off. I move
> the plate tuning knob clockwise to 21, 24, and 28 mhz setting range
> and the fuse pops. Has this happenned to anyone else? How did you
> correct it? This is not in the tune process.
> 73's de K4JDP-John
>
>

Yahoo! Groups Links

23415. Kenwood Twins 599 Help

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-13 22:59:24 UTC
From: Bob
Topic: 23415 Message: 23415

I just uploaded a few pictures of my KENWOOD 599 Twins and I am in need of a little help. I loaned this set out for about 3 years to a local Ham here in O. C. that was diagnosed with a brain tumor and lung cancer close to 4 years ago. He spent most of his spare time working for the advancement of adult education for the Boy Scouts of America in the Orange County area. When he was diagnosed he was given just a few months to 6 months to live. So because it was coming up on the October JOTA and he was a Ham I loaned him the rigs so at least he could be on the air. He ended up using the rigs for 3 years. He lived to see another grandson born and 3 more trips to Hawaii for vacations with his wife who is also a Ham. After his passing his son picked up his call.

So now I would like to get the rig working again. I have gone through the Receiver and it is working fantastic after very little work. A good dusting and lube job. IT is very clean.

The T 599 well that is another story. Because the rig was working when I got it I never really pulled it all apart so I am a little surprised to find a mess. Or from a different point of view such a great project! Now that I am unemployed I have the time to pull things apart the equipment and work on them. So..

The RF section of the transmitter is fried. I have posted a couple of pictures so you can see what I am looking at.
1st picture is under the two 2001's the resistors are cracked do to stress, heat, high voltage?.
2nd the transformer may have been repaired or modified because the tape has come apart from where someone cut wires and then re-attached.
3rd the rubber bands for the rollers have dried and cracked and fallen off.
Note: this could have been the cause the final section fried because the bands broke and it could not be tuned?
4th is the coil between a 2001 and a 6146B looks like it caught on fire.It has two different tubes in it? Don't they have to be matched?
5th is of a diode that has been replace on the board next to the transformer. This diode looks out of place and the solder indicates that it was a repair at one time.

I was told that the radio blew the fuse. The fuse was replaced and then it would not transmit.
It looks like someone tried to repair it and failed. Or it was repaired and they did not do a great job but it was working?

My goal is to get the Transmitter working and looking as good as the Receiver and put it on the desk above my TS 820 so I can use them both.
Any suggestions as to where to start?
Bob
KB6KPK

23416. Great diagnistic skills

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-13 23:15:26 UTC
From: Jim Stanicek
Topic: 23402 Message: 23416

Ya just gotta LOVE E-Bay !

[Non-text portions of this message have been removed]

23417. Re: [TS-520_820_530_830] Kenwood Twins 599 Help

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-13 23:24:39 UTC
From: Jim Stanicek
Topic: 23415 Message: 23417

Gee, Bob, I am so sorry to hear that a great radio like the T-599 got trashed like that. You have to wonder if it stayed with your "friend" all that time, or not.

But to the repair. Do you have a complete schematic of the rig? If not, you certainly should get one.

First thing I would do would be to replace all the damaged or destroyed parts with new devices. I would also pull the tubes, and replace them with matched ones.

If the transformer checks out OK, you can replace the wires with the same gauge wire, but use heat shrink tubing on the splices. Be sure to use the old "western union" style splice, where the wire is twisted axially around the leads instead of sticking out at a 90 degree angle.

It is very possible that the drive bands had dried, and someone who didn't know about "peak and dip" just tried to transmit with it, anyhow.

Have you checked the band crystals? Are they the right ones, or are there some 11 meter crystals in there in place of the proper ones? That might also have contributed to the carnage inside the rig.

Doing the proper repair/restore job on that rig will take some effort, but it will be worth it !

Good luck, and keep in touch with the group, I know there are some real experts here that will be able to give you some good hints.

73, Jim AG3Y

----- Original Message -----
From: Bob
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, November 13, 2009 5:59 PM
Subject: [TS-520_820_530_830] Kenwood Twins 599 Help

I just uploaded a few pictures of my KENWOOD 599 Twins and I am in need of a little help. I loaned this set out for about 3 years to a local Ham here in O. C. that was diagnosed with a brain tumor and lung cancer close to 4 years ago. He spent most of his spare time working for the advancement of adult education for the Boy Scouts of America in the Orange County area. When he was diagnosed he was given just a few months to 6 months to live. So because it was coming up on the October JOTA and he was a Ham I loaned him the rigs so at least he could be on the air. He ended up using the rigs for 3 years. He lived to see another grandson born and 3 more trips to Hawaii for vacations with his wife who is also a Ham. After his passing his son picked up his call.

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The RF section of the transmitter is fried. I have posted a couple of pictures so you can see what I am looking at.
1st picture is under the two 2001's the resistors are cracked do to stress, heat, high voltage?.
2nd the transformer may have been repaired or modified because the tape has come apart from where someone cut wires and then re-attached.
3rd the rubber bands for the rollers have dried and cracked and fallen off.
Note: this could have been the cause the final section fried because the bands broke and it could not be tuned?
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Any suggestions as to where to start?
Bob
KB6KPK

[Non-text portions of this message have been removed]

23418. Re: [TS-520_820_530_830] Kenwood Twins 599 Help

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-13 23:29:23 UTC
From: Charlie , W5COV
Topic: 23415 Message: 23418

Bob , I don't locate the picture of the RF section . I am just curious as to what it looks like .

73 , Charlie , W5COV

[Non-text portions of this message have been removed]

23419. Re: [TS-520_820_530_830] Great diagnostic skills

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-13 23:55:50 UTC
From: Charlie , W5COV
Topic: 23419 Message: 23419

Reminds me of an HW-101 , that I bought off of there several years back that was "working" . I did open it up first and found all of the tubes out of an AA5 , in whatever socket that they would fit in , complete with a 50C5 and a 35W4 !!

Charlie , W5COV

[Non-text portions of this message have been removed]

23420. RE: [TS-520_820_530_830] Great diagnistic skills

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 00:28:31 UTC
From: Tate Antrim
Topic: 23402 Message: 23420

Seller probably said something to the effect "works great! Put it on my bench this morning and got 100W out of it. You won't be disappointed."

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jim Stanicek
Sent: Friday, November 13, 2009 6:15 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Great diagnistic skills

Ya just gotta LOVE E-Bay !

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23421. Kenwood Twins 599 Help☐

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 00:37:24 UTC
From: Bob
Topic: 23421 Message: 23421

The Service Manual that I do have is one that I downloaded from the group. It is the Model T-599S... I am not sure if there were to many changes between the two rigs. My 599 is the first one made with out the Mic gain and Car Level on the front panel. Other than that I think it is the same. Inside the Service Manual there is a Schematic Diagram that I think will be OK.

The radio did stay with him for the time I loaned it. Not an Issue and I purchased it from the original owner in working condition and used it before I picked up my 820 I just never had cause to open it up after putting it on the air so many years ago. So I never pulled the bottom plate to see if it had been worked on.

There are no 11 meter crystals installed.

Parts?? Kenwood is here in So Cal should I just get the parts from them or is there a better place? Orvac? Ford Electronics in Fullerton? I know Bob Ford has passed but his sons run it and they are Hams? If there is a place I can get the parts handed to me instead of via Internet ordering that is what I would prefer then I can see and touch it when I pay for it.

Is there a kit or does someone have a list of parts to replace the rubber band style tuning apparatus and replace them with a chain driven style? Now that I will have the transmitter torn apart it would be a great time to upgrade it so I don't have to worry about cracked and worn out rubber bands. That way my son who is only 21 and a Ham can use it for the next 35 years.

I tested the tubes with a 35 year old tester that I have and all 3 are OK. No shorts etc. So how important is it for the tubes to be the same, or can the 2001 be used with the 6146B?

If I am reading the Schematic correctly the coil L3 is the vertical long coil on the top of the case between the two finals. It looks like it had caught on fire. Yes it is melted! From the top of L3 there are two coils L 12 and L 13 that go to the tops of the tubes.

Is there a better Schematic out there? How about the old Sams books? Those made this type of work so much easier.
Bob

23422. RE: [TS-520_820_530_830] Great diagnistic skills

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 00:41:38 UTC
From: Don Thomas
Topic: 23402 Message: 23422

Seen one of those, broken tube and previous repairs with a soldering gun or torch.

--- On Fri, 11/13/09, Tate Antrim <kd8hja@...> wrote:

From: Tate Antrim <kd8hja@...>
Subject: RE: [TS-520_820_530_830] Great diagnistic skills
To: TS-520_820_530_830@yahoogroups.com
Date: Friday, November 13, 2009, 6:28 PM

Seller probably said something to the effect "works great! Put it on my
bench this morning and got 100W out of it. You won't be disappointed. "

From: TS-520_820_530_ 830@yahoogroups. com
[mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of Jim Stanicek
Sent: Friday, November 13, 2009 6:15 PM
To: TS-520_820_530_ 830@yahoogroups. com
Subject: [TS-520_820_ 530_830] Great diagnistic skills

Ya just gotta LOVE E-Bay !

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23423. Re: Tuning TS 830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 00:54:58 UTC
From: gyancey52
Topic: 23395 Message: 23423

Well I guess I was told correctly after all. At any rate I have been trying to keep my LP below 220. I thought I read somewhere that this would make the tubes last longer. Thanks for the tips, hope I haven't been too far off the mark.

--- In TS-520_820_530_830@yahoogroups.com, "nospamvictim" <nospamvictim@...> wrote:
>
>
> The answer is neither.
>
> Any mistuning of the PLATE, LOAD or DRIVE WILL RESULT IN GARBAGE AND HARMONICS and risk damage to the tubes. Note that these controls are for TUNING the stages.
>
> To reduce the drive LEVEL and so the power on CW, reduce the CARRIER and for SSB, reduce the MIC gain, but DO NOT MISTUNE DRIVER AND FINAL stages. If you want ALC action to reduce the power then introduce ALC voltage (9v battery and pot?) to the ALC line to cut the power back, and set mic or carrier accordingly for proper ALC indication. This is of some value for SSB, but not recommended for digital operations. If you want to cut the power down for a transverter or AMP, use an external attenuator for more than a 1/3rd reduction.
>
> Fully loaded, mine shows ~120 watts CW with about 240 mils IP. Always tune up for maximum output. Plate current dip should be very shallow and coincide closely with maximum output or you need to neutralize.
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "gyancey52" <gyancey52@> wrote:
> >
> > I got the hang of how to tune my rig I just have a few questions to help tweek it just right. When properly tuned the insturctions say you should end up with 100 watts more or less. If you want less than 100 watts for one reason or another do you adjust the load or drive control or neither. I was told by the guy I bought it from to just turn the mic gain down, but that doesn't make sense to me, seems that would only screw up your audio and sound like garbage.
> > Also when changeing frequencies do you start all over again from the beginning adjusting load, plate current, re-dipping, etc or is there a short cut after getting the initial settings.
> > When adjusting the mic gain can you do that with the dummy load or do you need to be on air.
> > Sorry for all the questions, I just want to make sure I'm doing it right. The radio is puring like a kitten, just want to keep it happy.
> >
>

23424. buy a TS-830S? or TS-870SAT or TS-940SAT or?.....

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 01:08:07 UTC
From: ve3pie
Topic: 23424 Message: 23424

In the past I used a TS-830S and loved it. I would like another kenwood as a second rig. I've never used the TS-870SAT and 940SAT with autotune. Are these preferable over the TS-830S once I am in the market to buy one?? Or another kenwood model?
Also would like to know if the TS-870 and 940 are compatable with the SM-220 scope.
Thanks, Fred

23425. Two Questions ...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 02:27:13 UTC
From: Chris
Topic: 23425 Message: 23425

1. Does 90 watts tops on 40 meters indicate soft tubes on a TS-830? If not, at what power output are the tube considered soft?

2. Grasping the main tuning dial ... the VFO tuning assembly can be rocked up and down and back and forth. How much "play" is considered normal? Can this be tightened up ... and if so, how?

Thanks.

Chris
WD1W

23426. Two Questions ...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 02:24:44 UTC
From: Chris
Topic: 23425 Message: 23426

1. Does 90 watts tops on 40 meters indicate soft tubes on a TS-830? If not, at what power output are the tube considered soft?

2. Grasping the main tuning dial ... the VFO tuning assembly can be rocked up and down and back and forth. How much "play" is considered normal? Can this be tightened up ... and if so, how?

Thanks.

Chris
WD1W

23427. KENWOOD TS 830S AND HEATHKIT SB200 AMPLIFIER

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 03:10:28 UTC
From: jonkd4mpw
Topic: 23427 Message: 23427

Hello friends. I own a Kenwood TS 830s,a Heathkit SB200 amplifier, and MFJ 962D antenna tuner,an MFJ memory driven keyer,and MFJ paddler keyer and an MFJ 962 code decoder. Can anybody tell me (in detail) how all this hooks up and what RG8X jumpers go where? Example: From radio transceiver where does the jumper go? From amplifier rf out where does jumper go, from amplifier rf in where does jumper go? Below is a clickable link to view the back of the MFJ 962B antenna tuner. I am using a G5RV antenna than can handle the power of the amplifier. The antenna has a pl-259 connector on the end.

http://www.rimtai.com/chtr/products/MFJ/images/MFJ-962D-1.jpg

Also, can somebody tell me in detail how to tune up the amplifier with the MFJ 962B roller inductor antenna tuner? I know how to tune up on the radio without the amplifier on a non roller inductor antenna tuner MFJ 969. I have this all this nice equipment but do not know how to hook it all up since I am brand new to HF radio. Any help will be appreciated. 73's Jonathan KD4MPW

23428. Re: [TS-520_820_530_830] Great diagnistic skills

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 03:59:21 UTC
From: Jim Stanicek
Topic: 23402 Message: 23428

"And THEN, I pulled all the tubes out ! ! ! "

----- Original Message -----
From: Tate Antrim
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, November 13, 2009 7:28 PM
Subject: RE: [TS-520_820_530_830] Great diagnistic skills

Seller probably said something to the effect "works great! Put it on my
bench this morning and got 100W out of it. You won't be disappointed."

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jim Stanicek
Sent: Friday, November 13, 2009 6:15 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Great diagnistic skills

Ya just gotta LOVE E-Bay !

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23429. Re: [TS-520_820_530_830] KENWOOD TS 830S AND HEATHKIT SB200 AMPLIFIER

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 04:07:04 UTC
From: Bill Linn
Topic: 23427 Message: 23429

jonkd4mpw wrote:
>
> Hello friends. I own a Kenwood TS 830s,a Heathkit SB200 amplifier, and
> MFJ 962D antenna tuner,an MFJ memory driven keyer,and MFJ paddler
> keyer and an MFJ 962 code decoder. Can anybody tell me (in detail) how
> all this hooks up and what RG8X jumpers go where? Example: From radio
> transceiver where does the jumper go? From amplifier rf out where does
> jumper go, from amplifier rf in where does jumper go? Below is a
> clickable link to view the back of the MFJ 962B antenna tuner. I am
> using a G5RV antenna than can handle the power of the amplifier. The
> antenna has a pl-259 connector on the end.
>
> http://www.rimtai.com/chtr/products/MFJ/images/MFJ-962D-1.jpg
> <http://www.rimtai.com/chtr/products/MFJ/images/MFJ-962D-1.jpg>
>
> Also, can somebody tell me in detail how to tune up the amplifier with
> the MFJ 962B roller inductor antenna tuner? I know how to tune up on
> the radio without the amplifier on a non roller inductor antenna tuner
> MFJ 969. I have this all this nice equipment but do not know how to
> hook it all up since I am brand new to HF radio. Any help will be
> appreciated. 73's Jonathan KD4MPW
>
>
Johnathon, you'll need a short coax with an RCA plug or adapter from the output of the 830 to the RF In jack on the SB 200. Then, from the SB200 RF Out, connect a short piece of coax to the input of your tuner, then the output of the tuner to the antenna.

You will need to hook up the keying output of your 830 to the ANT Relay jack. (Note: I use an outboard solid state relay in this line between the 830 keying output and the Relay Jack because of the high bias voltage being switched. This will protect the relay in the 830 from abuse or failure.) I do not use the ALC circuit from the Amp to the 830.

Before you turn on the amp, you will need to tune the antenna using your tuner. After this is done then you can tune up the amp. (I'm assuming that you have manuals?) If not, you probably should not proceed until you have them for reference. For instance, wiring the din plug to the 830, for switching, you will need the diagram. Also, it is important to follow the tune up procedure outlined in the manual for the SB200.

Bill - W7WEL

23430. Re: [TS-520_820_530_830] KENWOOD TS 830S AND HEATHKIT SB200 AMPLIFIER

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 04:12:03 UTC
From: n6wk@n6wk.com
Topic: 23427 Message: 23430

Good Advice Bill.

Gordon
N6WK

Bill Linn wrote:
> jonkd4mpw wrote:
>
>> Hello friends. I own a Kenwood TS 830s,a Heathkit SB200 amplifier, and
>> MFJ 962D antenna tuner,an MFJ memory driven keyer,and MFJ paddler
>> keyer and an MFJ 962 code decoder. Can anybody tell me (in detail) how
>> all this hooks up and what RG8X jumpers go where? Example: From radio
>> transceiver where does the jumper go? From amplifier rf out where does
>> jumper go, from amplifier rf in where does jumper go? Below is a
>> clickable link to view the back of the MFJ 962B antenna tuner. I am
>> using a G5RV antenna than can handle the power of the amplifier. The
>> antenna has a pl-259 connector on the end.
>>
>> http://www.rimtai.com/chtr/products/MFJ/images/MFJ-962D-1.jpg
>> <http://www.rimtai.com/chtr/products/MFJ/images/MFJ-962D-1.jpg>
>>
>> Also, can somebody tell me in detail how to tune up the amplifier with
>> the MFJ 962B roller inductor antenna tuner? I know how to tune up on
>> the radio without the amplifier on a non roller inductor antenna tuner
>> MFJ 969. I have this all this nice equipment but do not know how to
>> hook it all up since I am brand new to HF radio. Any help will be
>> appreciated. 73's Jonathan KD4MPW
>>
>>
>>
> Johnathon, you'll need a short coax with an RCA plug or adapter from the
> output of the 830 to the RF In jack on the SB 200. Then, from the SB200
> RF Out, connect a short piece of coax to the input of your tuner, then
> the output of the tuner to the antenna.
>
> You will need to hook up the keying output of your 830 to the ANT Relay
> jack. (Note: I use an outboard solid state relay in this line between
> the 830 keying output and the Relay Jack because of the high bias
> voltage being switched. This will protect the relay in the 830 from
> abuse or failure.) I do not use the ALC circuit from the Amp to the 830.
>
> Before you turn on the amp, you will need to tune the antenna using your
> tuner. After this is done then you can tune up the amp. (I'm assuming
> that you have manuals?) If not, you probably should not proceed until

> you have them for reference. For instance, wiring the din plug to the
> 830, for switching, you will need the diagram. Also, it is important to
> follow the tune up procedure outlined in the manual for the SB200.
>
> Bill - W7WEL
>
>
>

23431. Re: [TS-520_820_530_830] KENWOOD TS 830S AND HEATHKIT SB200 AMPLIFIER

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 04:22:22 UTC
From: Bill Linn
Topic: 23427 Message: 23431

jonkd4mpw wrote:
>
> Hello friends. I own a Kenwood TS 830s,a Heathkit SB200 amplifier, and
> MFJ 962D antenna tuner,an MFJ memory driven keyer,and MFJ paddler
> keyer and an MFJ 962 code decoder. Can anybody tell me (in detail) how
> all this hooks up and what RG8X jumpers go where? Example: From radio
> transceiver where does the jumper go? From amplifier rf out where does
> jumper go, from amplifier rf in where does jumper go? Below is a
> clickable link to view the back of the MFJ 962B antenna tuner. I am
> using a G5RV antenna than can handle the power of the amplifier. The
> antenna has a pl-259 connector on the end.
>
> http://www.rimtai.com/chtr/products/MFJ/images/MFJ-962D-1.jpg
> <http://www.rimtai.com/chtr/products/MFJ/images/MFJ-962D-1.jpg>
>
> Also, can somebody tell me in detail how to tune up the amplifier with
> the MFJ 962B roller inductor antenna tuner? I know how to tune up on
> the radio without the amplifier on a non roller inductor antenna tuner
> MFJ 969. I have this all this nice equipment but do not know how to
> hook it all up since I am brand new to HF radio. Any help will be
> appreciated. 73's Jonathan KD4MPW
>
>
Also, you may need to isolate the keyer output from the keying circuit of the 830 to make it key properly, again you are switching a higher voltage than most of the newer solid state keyers can handle. And, sometimes the polarity is incompatible with the keyor output. I use a "Key-All" from Jackson Harbor.

Don't know how to hook up the decoder.

Oh, to use the tuner, you can peak the noise on your receiver by turning the inductor first, then do the same with the capacitors. This will put you in the neighborhood before you apply power. Use lower power, like in the tune position of the 830 and quickly adjust the roller inductor followed by the caps. Once you find the correct settings, write them down for future reference. (Note: these settings will change if you change your jumper lengths, take the amp out of the line up, etc. but they will be good for next time if you leave the hook-up configuration alone. I would get familiar with how it tunes before using the amp.

23432. Re: [TS-520_820_530_830] KENWOOD TS 830S AND HEATHKIT SB200 AMPLIFIER

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 04:13:14 UTC
From: Jonathan B. O'Rear
Topic: 23427 Message: 23432

Hello again and thank you. I do have the module cable from the amp to the radio
Jonathan B. O'Rear / AT&T Blackberry Bold 9000

-----Original Message-----
From: Bill Linn <wlinn.linn@gmail.com>
Date: Fri, 13 Nov 2009 20:07:04
To: <TS-520_820_530_830@yahoogroups.com>
Subject: Re: [TS-520_820_530_830] KENWOOD TS 830S AND HEATHKIT SB200 AMPLIFIER

jonkd4mpw wrote:
>
> Hello friends. I own a Kenwood TS 830s,a Heathkit SB200 amplifier, and
> MFJ 962D antenna tuner,an MFJ memory driven keyer,and MFJ paddler
> keyer and an MFJ 962 code decoder. Can anybody tell me (in detail) how
> all this hooks up and what RG8X jumpers go where? Example: From radio
> transceiver where does the jumper go? From amplifier rf out where does
> jumper go, from amplifier rf in where does jumper go? Below is a
> clickable link to view the back of the MFJ 962B antenna tuner. I am
> using a G5RV antenna than can handle the power of the amplifier. The
> antenna has a pl-259 connector on the end.
>
> http://www.rimtai.com/chtr/products/MFJ/images/MFJ-962D-1.jpg
> <http://www.rimtai.com/chtr/products/MFJ/images/MFJ-962D-1.jpg>
>
> Also, can somebody tell me in detail how to tune up the amplifier with
> the MFJ 962B roller inductor antenna tuner? I know how to tune up on
> the radio without the amplifier on a non roller inductor antenna tuner
> MFJ 969. I have this all this nice equipment but do not know how to
> hook it all up since I am brand new to HF radio. Any help will be
> appreciated. 73's Jonathan KD4MPW
>
>
Johnathon, you'll need a short coax with an RCA plug or adapter from the
output of the 830 to the RF In jack on the SB 200. Then, from the SB200
RF Out, connect a short piece of coax to the input of your tuner, then
the output of the tuner to the antenna.

You will need to hook up the keying output of your 830 to the ANT Relay
jack. (Note: I use an outboard solid state relay in this line between
the 830 keying output and the Relay Jack because of the high bias
voltage being switched. This will protect the relay in the 830 from
abuse or failure.) I do not use the ALC circuit from the Amp to the 830.

Before you turn on the amp, you will need to tune the antenna using your
tuner. After this is done then you can tune up the amp. (I'm assuming

that you have manuals?) If not, you probably should not proceed until you have them for reference. For instance, wiring the din plug to the 830, for switching, you will need the diagram. Also, it is important to follow the tune up procedure outlined in the manual for the SB200.

Bill - W7WEL

Yahoo! Groups Links

23433. Not my best night

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 04:10:10 UTC
From: kevin
Topic: 23433 Message: 23433

Well I cleaned up a very nice 530 on the bench. Put it back together and did something so stupid it was hard for me to believe. Long story short while in the tune position and connected to a dummy load. I left it in the send position for quite a while. I had tripped the switch moving it around. Totally stupid. Came back to that awful smell of burned "stuff". Blew the 3 amp fuse in my isolation transformer and of course it will not tune up. Receive is fine. I am hoping against hope that all I did was fry the resistors at the finals.

Doesn't end there. To nurse my wounds I tuned up my 520 to play tonight. Tuned up great but when I tried to use it - zippo. Tuned it three more times same thing. Then I realized that the seeming problem is that when I switch from CW while tuning to USB or LSB I lost my "juice" Any ideas?

I have a rope around my neck but haven't kicked the ladder out yet. Tomorrow should be a better day.
73
Kevin

23434. Re: My Amateur Radio Web Pages

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 05:00:45 UTC
From: Music Maker
Topic: 23403 Message: 23434

Hi Martin

Thanks for taking the time to look at what I am doing on my web site.

The Amateur Radio Pages, I hope, will over the coming months, be a 'blog' as to how I set up a new station from 'scratch', and the joys and sorrows, entailed !!

Re needing a dummy load! I bought a Kenwood 230ATU off Ebay - paid too much for it at 200 dollars (in your money!), but it was 'mint' (as new), and had the luxury of having had a dummy load built in !!

If you look at the 230ATU Manual (there is a copy in the 'files' section here), it describes the making of a suitable dummy load, and on looking inside, I see that this is exaxtly how it was done. The Resistors are all 'Morganite' (Google for more info - but they are quite special!).

When I finish my posts here, I will go and have a 'nosey' around your web site.

Kindest regards and 73's

John

www.John4Music.TV <http://www.John4Music.TV>

Support the Arts - Feed A Musician !

I was born with Nothing ..... 74 years later, I still have most of it left !!

I an not a 'HAM' ! ..... I am a 'Licenced Radio Amateur'

.

.

.--- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@...> wrote:
>
> Hi John. Nice web site! One thing I see that you have not mentioned
> is whether or not you have a dummy load. You will need one. They can
> be found numerous places online, or you can build your own. I
> recently built one for a friend which is very similar to the one shown
> on Ken's (K4EAA) web site at http://k4eaa.com/dummy.html
>
> The one I built has a few minor but un-importamt differences. It
> works very well! I have written up how I built the dummy load, and

> sooner or later will get around to making a page on my web site for
> it. My web site is at
> http://home.mchsi.com/~kb0hae/index.htm
> On the site you can see a photo of my current "shack" setup.
>
> TTYL
>
>
>
> Music Maker wrote:
> > .
> >
> >
> >
> > Hello again Happy Campers!
> >
> > Firstly, thanks to those who were kind enough to respond to my first
> > post, introducing myself, which I thought was a common courtesy when
> > joining a Group ! We Brits are a bit of a 'stuffy' lot when it comes
> > to manners and etiquette ! HI !
> >
> > While I am awaiting the re-issue of my licence, I have been doing a
bit
> > of work on my web site, which covers not only my Amateur Radio
Hobby,
> > but also my Dogs, Camping, and my somewhat dubious Musical talents.
> >
> > I only decided on a mad impulse about 10 days ago, to take up
Amateur
> > Radio again, after being 'quiet' for over 40 years, and I am doing a
> > 'sort of'' Blog, which could make interesting reading for those
members
> > of this Group, who have time to waste reading codswallop rather than
> > morse !!!
> >
> > My Amateur Radio Page can be found at :-
> > http://www.john4music.tv/7.html <http://www.john4music.tv/7.html>
> >
> > I hope it is interesting to people other than myself! HI
> >
> > 73 de John
> >
> > 'Support the Arts - Feed A Musician !'
> >
> > I was born with nothing..... 74 years later, I still have most of it
> > left !
> >
> > I am a 'Licenced Radio Amateur' ... NOT a 'Radio Ham'
> >
> >

> >
> > [Non-text portions of this message have been removed]
> >
> >
>
> --
> CUL8R
>
> KBOHAE kb0hae@... Martin Campbell
>
> A Satisfied Sidux Linux user! To get Sidux go to:
> www.sidux.com/index.html
> "Protect your digital freedom and privacy, eliminate DRM, learn more
> at http://www.defectivebydesign.org/what_is_drm"
>

[Non-text portions of this message have been removed]

23435. Re: [TS-520_820_530_830] KENWOOD TS 830S AND HEATHKIT SB200 AMPLIFIER

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 05:47:39 UTC
From: Dave ve3wej
Topic: 23427 Message: 23435

sounds to me that a lot of time needs to be spent also reading all the
manuals for the devices, FIRST....

hook them up one at a time, be comfortable with it then add the next device,
and so on ...

Dave Garber
VE3WEJ

----- Original Message -----
From: "jonkd4mpw" <jonkd4mpw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, November 13, 2009 10:10 PM
Subject: [TS-520_820_530_830] KENWOOD TS 830S AND HEATHKIT SB200 AMPLIFIER

> Hello friends. I own a Kenwood TS 830s,a Heathkit SB200 amplifier, and
> MFJ 962D antenna tuner,an MFJ memory driven keyer,and MFJ paddler keyer
> and an MFJ 962 code decoder. Can anybody tell me (in detail) how all this
> hooks up and what RG8X jumpers go where? Example: From radio transceiver
> where does the jumper go? From amplifier rf out where does jumper go, from
> amplifier rf in where does jumper go? Below is a clickable link to view
> the back of the MFJ 962B antenna tuner. I am using a G5RV antenna than can
> handle the power of the amplifier. The antenna has a pl-259 connector on
> the end.
>
> http://www.rimtai.com/chtr/products/MFJ/images/MFJ-962D-1.jpg
>
> Also, can somebody tell me in detail how to tune up the amplifier with the
> MFJ 962B roller inductor antenna tuner? I know how to tune up on the
> radio without the amplifier on a non roller inductor antenna tuner MFJ
> 969. I have this all this nice equipment but do not know how to hook it
> all up since I am brand new to HF radio. Any help will be appreciated.
> 73's Jonathan KD4MPW
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

23436. Re: [TS-520_820_530_830] KENWOOD TS 830S AND HEATHKIT SB200 AMPLIFIER

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 05:53:17 UTC
From: John Davidson
Topic: 23427 Message: 23436

First, sit down with the operators manuals for all this gear and go thru each one cover to cover twice, and ask us again if you need to.

--- On Fri, 11/13/09, jonkd4mpw <jonkd4mpw@...> wrote:

From: jonkd4mpw <jonkd4mpw@...>
Subject: [TS-520_820_530_830] KENWOOD TS 830S AND HEATHKIT SB200 AMPLIFIER
To: TS-520_820_530_830@yahoogroups.com
Date: Friday, November 13, 2009, 10:10 PM

Hello Can anybody tell me (in detail) how all this hooks up and what RG8X jumpers go where? Example: From radio transceiver where does the jumper go? From amplifier rf out where does jumper go, from amplifier rf in where does jumper go?
http://www.rimtai. com/chtr/ products/ MFJ/images/ MFJ-962D- 1.jpg

Also, can somebody tell me in detail how to tune up the amplifier . I have this all this nice equipment but do not know how to hook it all up since I am brand new to HF radio. Any help will be appreciated. 73's Jonathan KD4MPW

[Non-text portions of this message have been removed]

23437. Re: [TS-520_820_530_830] KENWOOD TS 830S AND HEATHKIT SB200 AMPLIFIER

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 07:06:13 UTC
From: Don Thomas
Topic: 23427 Message: 23437

Have looked over the other post and their steering you in the right direction. I would recommend strongly that you only set up the radio, tuner and antenna at this point to become familiar with how the radio and tuner works. Read the manuals for tuning instructions and follow them. Until you are comfortable with using the radio and tuner, the amp can safely sit on the side unharmed. Place them where you want them so it all looks good, but let the amp be a decoration till you are familiar with how things work. There is not a dummy load on your list. You will need one for tuning the radio and also the amp. You will need one that can handle the full output of the amplifier. Without a dummy load, you can't safely tune the radio or the amplifier.

Don T. // K5ZRQ

--- On Fri, 11/13/09, jonkd4mpw <jonkd4mpw@...> wrote:

From: jonkd4mpw <jonkd4mpw@...>
Subject: [TS-520_820_530_830] KENWOOD TS 830S AND HEATHKIT SB200 AMPLIFIER
To: TS-520_820_530_830@yahoogroups.com
Date: Friday, November 13, 2009, 9:10 PM

Hello friends. I own a Kenwood TS 830s,a Heathkit SB200 amplifier, and MFJ 962D antenna tuner,an MFJ memory driven keyer,and MFJ paddler keyer and an MFJ 962 code decoder. Can anybody tell me (in detail) how all this hooks up and what RG8X jumpers go where? Example: From radio transceiver where does the jumper go? From amplifier rf out where does jumper go, from amplifier rf in where does jumper go? Below is a clickable link to view the back of the MFJ 962B antenna tuner. I am using a G5RV antenna than can handle the power of the amplifier. The antenna has a pl-259 connector on the end.

http://www.rimtai. com/chtr/ products/ MFJ/images/ MFJ-962D- 1.jpg

Also, can somebody tell me in detail how to tune up the amplifier with the MFJ 962B roller inductor antenna tuner? I know how to tune up on the radio without the amplifier on a non roller inductor antenna tuner MFJ 969. I have this all this nice equipment but do not know how to hook it all up since I am brand new to HF radio. Any help will be appreciated. 73's Jonathan KD4MPW

[Non-text portions of this message have been removed]

23438. Re: Not my best night

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 12:32:22 UTC
From: sv0xbq
Topic: 23433 Message: 23438

Hi Kevin,
I did a similar thing earlier this week when I accidentally flicked on the send switch. The smell of smoke was the first thing I knew of it and by then it was too late. The plate choke burned out as did the cathode resistors. I've rewound the choke and I'm replacing the resistors this afternoon. I can only get 22 ohm resistors here giving me 5.5 ohms total but I'll fit them and see how it goes.
Chris

--- In TS-520_820_530_830@yahoogroups.com, "kevin" <kmx888@...> wrote:
>
> Well I cleaned up a very nice 530 on the bench. Put it back together and did something so stupid it was hard for me to believe. Long story short while in the tune position and connected to a dummy load. I left it in the send position for quite a while. I had tripped the switch moving it around. Totally stupid. Came back to that awful smell of burned "stuff". Blew the 3 amp fuse in my isolation transformer and of course it will not tune up. Receive is fine. I am hoping against hope that all I did was fry the resistors at the finals.
>
> Doesn't end there. To nurse my wounds I tuned up my 520 to play tonight. Tuned up great but when I tried to use it - zippo. Tuned it three more times same thing. Then I realized that the seeming problem is that when I switch from CW while tuning to USB or LSB I lost my "juice" Any ideas?
>
> I have a rope around my neck but haven't kicked the ladder out yet. Tomorrow should be a better day.
> 73
> Kevin
>

23439. Re: [Swan-Network] Swan Astro 102BX: PTO frequency stability issue

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 13:23:38 UTC
From: Adrian Ellison
Topic: 23439 Message: 23439

Hi Dennis and thanks for the post.

Yes the regulator is inside the box on mine, I'd heard of others moving theirs outside as you describe but didn't know that Swan actually manufactured them like that on later units.

It's one of those things I'll get around to doing one fine day :-)

Thanks again Dennis,

73 de Adrian - ZS1TTZ

On Saturday 14 November 2009 14:39:27 you wrote:
> Adrian:
> Does your 102 have the 7805 5V regulator mounted in the counter? Swan
> moved them to the rear panel to avoid counter "frequency drift" on the
> later units.... 73
> Dennis, WA0WAB

23440. Re: [TS-520_820_530_830] Not my best night

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 13:39:02 UTC
From: Stephen Judd
Topic: 23433 Message: 23440

use doxit on the band switch well the wafer switches could probably use some to
 Stephen/KB7BGS

From: kevin <kmx888@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Fri, November 13, 2009 9:10:10 PM
Subject: [TS-520_820_530_830] Not my best night

Well I cleaned up a very nice 530 on the bench. Put it back together and did something so stupid it was hard for me to believe. Long story short while in the tune position and connected to a dummy load. I left it in the send position for quite a while. I had tripped the switch moving it around. Totally stupid. Came back to that awful smell of burned "stuff". Blew the 3 amp fuse in my isolation transformer and of course it will not tune up. Receive is fine. I am hoping against hope that all I did was fry the resistors at the finals.

Doesn't end there. To nurse my wounds I tuned up my 520 to play tonight. Tuned up great but when I tried to use it - zippo. Tuned it three more times same thing. Then I realized that the seeming problem is that when I switch from CW while tuning to USB or LSB I lost my "juice" Any ideas?

I have a rope around my neck but haven't kicked the ladder out yet. Tomorrow should be a better day.
73
Kevin

[Non-text portions of this message have been removed]

23441. Re: [TS-520_820_530_830] KENWOOD TS 830S AND HEATHKIT SB200 AMPLIFIER

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 05:12:51 UTC
From: Jonathan B. O'Rear
Topic: 23427 Message: 23441

Which output does the amp plug into on the back of the ts830s? Does anybody know? Thanks again.
Jonathan B. O'Rear / AT&T Blackberry Bold 9000

-----Original Message-----
From: Bill Linn <wlinn.linn@gmail.com>
Date: Fri, 13 Nov 2009 20:22:22
To: <TS-520_820_530_830@yahoogroups.com>
Subject: Re: [TS-520_820_530_830] KENWOOD TS 830S AND HEATHKIT SB200 AMPLIFIER

jonkd4mpw wrote:
>
> Hello friends. I own a Kenwood TS 830s,a Heathkit SB200 amplifier, and
> MFJ 962D antenna tuner,an MFJ memory driven keyer,and MFJ paddler
> keyer and an MFJ 962 code decoder. Can anybody tell me (in detail) how
> all this hooks up and what RG8X jumpers go where? Example: From radio
> transceiver where does the jumper go? From amplifier rf out where does
> jumper go, from amplifier rf in where does jumper go? Below is a
> clickable link to view the back of the MFJ 962B antenna tuner. I am
> using a G5RV antenna than can handle the power of the amplifier. The
> antenna has a pl-259 connector on the end.
>
> http://www.rimtai.com/chtr/products/MFJ/images/MFJ-962D-1.jpg
> <http://www.rimtai.com/chtr/products/MFJ/images/MFJ-962D-1.jpg>
>
> Also, can somebody tell me in detail how to tune up the amplifier with
> the MFJ 962B roller inductor antenna tuner? I know how to tune up on
> the radio without the amplifier on a non roller inductor antenna tuner
> MFJ 969. I have this all this nice equipment but do not know how to
> hook it all up since I am brand new to HF radio. Any help will be
> appreciated. 73's Jonathan KD4MPW
>
>
Also, you may need to isolate the keyer output from the keying circuit of the 830 to make it key properly, again you are switching a higher voltage than most of the newer solid state keyers can handle. And, sometimes the polarity is incompatible with the keyor output. I use a "Key-All" from Jackson Harbor.

Don't know how to hook up the decoder.

Oh, to use the tuner, you can peak the noise on your receiver by turning the inductor first, then do the same with the capacitors. This will put you in the neighborhood before you apply power. Use lower power, like in the tune position of the 830 and quickly adjust the roller inductor

followed by the caps. Once you find the correct settings, write them down for future reference. (Note: these settings will change if you change your jumper lengths, take the amp out of the line up, etc. but they will be good for next time if you leave the hook-up configuration alone. I would get familiar with how it tunes before using the amp.

Yahoo! Groups Links

23442. Re: My Amateur Radio Web Pages

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 10:27:35 UTC
From: Norbulus
Topic: 23403 Message: 23442

Hi John,

Nice site - I'm surprised that you've got time to do radio as well as all your other hobbies :) Like you I am also a muso (I play guitar and mandolins and stuff like that) and I find that I naturally have a fairly good ear for signals in the depths of it all (probably something to do with loud rock music and listening for cues from drummers who are being drowned out by noisy bass players!!)

Like you said, us Brits are a bit stuffy at times but we are also pack animals so on the back of your intro, I thought I'd better introduce myself.

My name is Rob and I got really stuck into radio in the last year or two after a lifetime's interest. I obtained my Advanced licence earlier this year with my radio club (Ripon and District ARS) and I've been loving it ever since.

I've got a website http://www.m0rby.co.uk where I hope to add more as I go along.

My interests are mainly digimodes, SSTV and homebrewing/experimenting for which I use my TS-820S.

I'd be interested to hear if anyone else uses the TS-820 or similar for PSK and how you are doing it and how you set the rig up. I've made contacts all over the world, mainly on 20m, using PSK with that great sense of achievement when you get a new country on the other side of the planet - my biggest grin came when I contacted Sydney, Australia.

Anyway, enough of this. Hello again and I look forward to many more interesting posts here about these fabulous, long-suffering, bombproof rigs :)

Regards

Rob M0RBY

--- In TS-520_820_530_830@yahoogroups.com, "Music Maker" <jhaddleton@...> wrote:
>
>
> .
>
>
>
> Hello again Happy Campers!
>
> Firstly, thanks to those who were kind enough to respond to my first
> post, introducing myself, which I thought was a common courtesy when
> joining a Group ! We Brits are a bit of a 'stuffy' lot when it comes
> to manners and etiquette ! HI !
>
> While I am awaiting the re-issue of my licence, I have been doing a bit

> of work on my web site, which covers not only my Amateur Radio Hobby,
> but also my Dogs, Camping, and my somewhat dubious Musical talents.
>
> I only decided on a mad impulse about 10 days ago, to take up Amateur
> Radio again, after being 'quiet' for over 40 years, and I am doing a
> 'sort of'' Blog, which could make interesting reading for those members
> of this Group, who have time to waste reading codswallop rather than
> morse !!!
>
> My Amateur Radio Page can be found at :-
> http://www.john4music.tv/7.html <http://www.john4music.tv/7.html>
>
> I hope it is interesting to people other than myself! HI
>
> 73 de John
>
> 'Support the Arts - Feed A Musician !'
>
> I was born with nothing..... 74 years later, I still have most of it
> left !
>
> I am a 'Licenced Radio Amateur' ... NOT a 'Radio Ham'
>
>
>
> [Non-text portions of this message have been removed]
>

23443. Re: [TS-520_820_530_830] KENWOOD TS 830S AND HEATHKIT SB200 AMPLIFIER

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 05:58:10 UTC
From: Jonathan B. O'Rear
Topic: 23427 Message: 23443

All of the manuals have been read and re-read. I just need it broken down a little. I have never done this so it is new to me and appears to be pretty touchy as well.
Jonathan B. O'Rear / AT&T Blackberry Bold 9000

-----Original Message-----
From: "Dave ve3wej" <ve3wej@...>
Date: Sat, 14 Nov 2009 00:47:39
To: <TS-520_820_530_830@yahoogroups.com>
Subject: Re: [TS-520_820_530_830] KENWOOD TS 830S AND HEATHKIT SB200 AMPLIFIER

sounds to me that a lot of time needs to be spent also reading all the
manuals for the devices, FIRST....

hook them up one at a time, be comfortable with it then add the next device,
and so on ...

Dave Garber
VE3WEJ

----- Original Message -----
From: "jonkd4mpw" <jonkd4mpw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, November 13, 2009 10:10 PM
Subject: [TS-520_820_530_830] KENWOOD TS 830S AND HEATHKIT SB200 AMPLIFIER

> Hello friends. I own a Kenwood TS 830s,a Heathkit SB200 amplifier, and
> MFJ 962D antenna tuner,an MFJ memory driven keyer,and MFJ paddler keyer
> and an MFJ 962 code decoder. Can anybody tell me (in detail) how all this
> hooks up and what RG8X jumpers go where? Example: From radio transceiver
> where does the jumper go? From amplifier rf out where does jumper go, from
> amplifier rf in where does jumper go? Below is a clickable link to view
> the back of the MFJ 962B antenna tuner. I am using a G5RV antenna than can
> handle the power of the amplifier. The antenna has a pl-259 connector on
> the end.
>
> http://www.rimtai.com/chtr/products/MFJ/images/MFJ-962D-1.jpg
>
> Also, can somebody tell me in detail how to tune up the amplifier with the
> MFJ 962B roller inductor antenna tuner? I know how to tune up on the
> radio without the amplifier on a non roller inductor antenna tuner MFJ
> 969. I have this all this nice equipment but do not know how to hook it
> all up since I am brand new to HF radio. Any help will be appreciated.
> 73's Jonathan KD4MPW
>
>

>
> ------------------------------------
>
> Yahoo! Groups Links
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>

[Non-text portions of this message have been removed]

23444. Re: [TS-520_820_530_830] Two Questions ...

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 15:27:06 UTC
From: James Allen
Topic: 23425 Message: 23444

I can't answer your first question, but I might be able to help with the second. I know that on my TS-520SE the VFO knob seemed to have some wiggle in it. When I had the faceplate off to check a bunch of other things out I noticed that the shaft assembly was loose in it's mount. looking it over I noticed that it had been locked in place with some type of compound. It's a bit hard to explain, someone else might be able to do a better job.

In any case, I mixed up some 5 minute epoxy and used that to lock the shaft assembly back in place with the mounting plate. That fixed it up very nicely and now it is nice and solid again. I don't know if the 830 is going to be similar, but it is worth checking out. No matter what I think you have to take off the faceplate, so have fun with that!

Paul
KE7TYY

On Fri, Nov 13, 2009 at 7:24 PM, Chris <kochenourchris@...> wrote:

>
>
> 1. Does 90 watts tops on 40 meters indicate soft tubes on a TS-830? If not,
> at what power output are the tube considered soft?
>
> 2. Grasping the main tuning dial ... the VFO tuning assembly can be rocked
> up and down and back and forth. How much "play" is considered normal? Can
> this be tightened up ... and if so, how?
>
> Thanks.
>
> Chris
> WD1W
>
>
>

[Non-text portions of this message have been removed]

23445. Re: Not my best night

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 15:56:40 UTC
From: kevin
Topic: 23433 Message: 23445

Well at least misery loves company. Was the toasted choke obvious? As you can tell my skills are suspect- even to me. Please keep me posted

I will try the De-Oxit.

23446. Re: Great diagnistic skills

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 05:32:51 UTC
From: Music Maker
Topic: 23402 Message: 23446

Hi Kevin,

From your post, and the responses so far, I have found Ebay much different here in UK, to the 'US Experience'..

I have bought my and sold my last 3 cars (all unseen) - A Volvo Station Wagon, Mazda 323, and lastly my Renault Megane 'Scenic' MPV Diesel (it cost me 500 dollars in US money!) that I have now driven for the last 18 months.

I have also, as a Musician, bought and sold Organs and Keyboards, and this last week or so, bought Amateur Radio Equipment - a Kenwood TS 530, 230 ATU, MC 50, and MP-1 Antenna. (Described and pictured on my web site at www.John4Music.TV <http://www.John4Music.TV> Under the 'Amateur Radio' Button.).

Everything I have ever bought has been 'As Described' - I have met some great people, and have never had a bad deal (I am up to over 200 !).

In this country, you can drive to collect, or deliver in most Cities. I am smack bang in the middle of UK, and there is not much that is farther than 200 miles away! If I go due East - the North Sea is about 100 miles, If I go due West, I can bathe in the Irish Sea in North Wales 65 Miles away !! Birmingham (our second biggest City), is 40 Miles South, London 150 Miles South. South Coast about 220 miles!. Liverpool is about 90 Miles North West, and Glasgow (Scotland), is about 250 miles North !!

Although I lived and worked in the US for ten years (and stole one of your beautiful ladies!), I still find UK quite a big place !!

What I am trying to say, is that if someone did 'Rob' you on Ebay in UK, it isn't far to go with the old Fox .410 to give them both barrels, so perhaps we HAVE to play fair!

Some great responses to your post.

Kind regards & 73's

John

www.John4Music.TV <http://www.John4Music.TV>

Support the Arts - Feed A Musician !

I was born with nothing ..... 74 years later I still have most of it left !

I am not a 'HAM' ..... I am a 'Licensed Radio Amateur' !

--- In TS-520_820_530_830@yahoogroups.com, "kevin" <kmx888@...> wrote:
>
> I bought a 530 from E-Bay recently. I thought it might be a nice upgrade from my 520. Receive worked well and I liked the digital display. But I couldn't get it to tune up. No drive no nothing. Like a good member I spent several hours combing the messages to see if I could find any insight. Try searching for "drive" in the messages sometime. Finally I figured I'd better open it up and see if anything was obvious. That much I also learned here.
> I did open it up and thanks to my great diagnostic skill found the problem right away - No tubes. I have been laughing at myself all evening. Check the simple and the obvious is the lesson to be learned here.
> 73
> Kevin
>

[Non-text portions of this message have been removed]

23447. Re: [TS-520_820_530_830] Re: Not my best night

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 16:54:33 UTC
From: Chris and Alex
Topic: 23433 Message: 23447

I too couldn't believe what I'd done. I shut everything down and grabbed a bottle of wine, leaving everything for the next day. You cant mistake the toasted choke. It should look bright and shiney. Mine did look like toast and was open cct. The resistors had turned to dust but the cct board was ok. The 6.8 micro henry choke that's wired to the base of the plate choke is also looking cooked although it's not open circuit so I'll change that as well. It's all easy to get to and the plate choke is easy to rewind. I've set up my TS-520SE in the meantime until it's all sorted. The States were getting to Crete easily this evening on 20m before dusk.

Chris SV0XBQ/9

2009/11/14 kevin <kmx888@...>

>
>
> Well at least misery loves company. Was the toasted choke obvious? As you
> can tell my skills are suspect- even to me. Please keep me posted
>
> I will try the De-Oxit.
>
>
>

[Non-text portions of this message have been removed]

23448. Re: [TS-520_820_530_830] KENWOOD TS 830S AND HEATHKIT SB200 AMPLIFIER

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 17:04:43 UTC
From: Don Thomas
Topic: 23427 Message: 23448

Check out Ken's webpage on the Kenwoods. http://www.k4eaa.com/ for alot of info.
Look over the Tuning info. Most people follow it pretty easy.
http://www.k4eaa.com/tune-up.htm and see if that helps.

Don T.

--- On Fri, 11/13/09, Jonathan B. O'Rear <jonkd4mpw@...> wrote:

From: Jonathan B. O'Rear <jonkd4mpw@...>
Subject: Re: [TS-520_820_530_830] KENWOOD TS 830S AND HEATHKIT SB200 AMPLIFIER
To: TS-520_820_530_830@yahoogroups.com
Date: Friday, November 13, 2009, 11:58 PM

All of the manuals have been read and re-read. I just need it broken down a little. I have never done this so it is new to me and appears to be pretty touchy as well.
Jonathan B. O'Rear / AT&T Blackberry Bold 9000

-----Original Message-----
From: "Dave ve3wej" <ve3wej@gmail. com>
Date: Sat, 14 Nov 2009 00:47:39
To: <TS-520_820_530_ 830@yahoogroups. com>
Subject: Re: [TS-520_820_ 530_830] KENWOOD TS 830S AND HEATHKIT SB200 AMPLIFIER

sounds to me that a lot of time needs to be spent also reading all the
manuals for the devices, FIRST....

hook them up one at a time, be comfortable with it then add the next device,
and so on ...

Dave Garber
VE3WEJ

----- Original Message -----
From: "jonkd4mpw" <jonkd4mpw@yahoo. com>
To: <TS-520_820_530_ 830@yahoogroups. com>
Sent: Friday, November 13, 2009 10:10 PM
Subject: [TS-520_820_ 530_830] KENWOOD TS 830S AND HEATHKIT SB200 AMPLIFIER

> Hello friends. I own a Kenwood TS 830s,a Heathkit SB200 amplifier, and
> MFJ 962D antenna tuner,an MFJ memory driven keyer,and MFJ paddler keyer
> and an MFJ 962 code decoder. Can anybody tell me (in detail) how all this
> hooks up and what RG8X jumpers go where? Example: From radio transceiver
> where does the jumper go? From amplifier rf out where does jumper go, from
> amplifier rf in where does jumper go? Below is a clickable link to view
> the back of the MFJ 962B antenna tuner. I am using a G5RV antenna than can
> handle the power of the amplifier. The antenna has a pl-259 connector on

> the end.
>
> http://www.rimtai. com/chtr/ products/ MFJ/images/ MFJ-962D- 1.jpg
>
> Also, can somebody tell me in detail how to tune up the amplifier with the
> MFJ 962B roller inductor antenna tuner? I know how to tune up on the
> radio without the amplifier on a non roller inductor antenna tuner MFJ
> 969. I have this all this nice equipment but do not know how to hook it
> all up since I am brand new to HF radio. Any help will be appreciated.
> 73's Jonathan KD4MPW
>
>
>
> ------------ --------- --------- ------
>
> Yahoo! Groups Links
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>

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[Non-text portions of this message have been removed]

23449. Re: [TS-520_820_530_830] kenwood ts 530sp VFO drift on transmit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 19:29:31 UTC
From: John Davidson
Topic: 23377 Message: 23449

I have no practical knowledge of digi mode software...Do these programs actually display the audio frequencies being received like a a freq counter???

--- On Thu, 11/12/09, martin <kb0hae@...> wrote:

From: martin <kb0hae@...>
Subject: Re: [TS-520_820_530_830] kenwood ts 530sp VFO drift on transmit
To: TS-520_820_530_830@yahoogroups.com
Date: Thursday, November 12, 2009, 2:51 PM

. You can measure the amount of
drift that you have in the following manner:

If you are set up for PSK or other digital mode operation.Tune the radio to WWV, and start your PSK software. I use Digipan.
Tune the VFO so that you see the WWV carrier on the waterfall display.
Click on the center of the carrier., and write down the time and the
audio frequency shown in the programt
_ is_drm"

[Non-text portions of this message have been removed]

23450. Re: [TS-520_820_530_830] kenwood ts 530sp VFO drift on transmit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 22:38:03 UTC
From: Eric Zerkle
Topic: 23377 Message: 23450

I think i found some of the problem. The mode switch is causing the rig to drift somewhat. If i switch to tune to cw and to lsb it will stop drifting. Last night, when i was on 10, it never drifted once.
K9FON

[Non-text portions of this message have been removed]

23451. Re: [TS-520_820_530_830] Not my best night

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 23:02:48 UTC
From: Jerry Keller
Topic: 23433 Message: 23451

Don't feel too bad.... I did something similar yesterday. In my newly acquired TS520S a previous owner had replaced the two 1-watt-10-ohm-5% resistors at the finals with 5-watt carbon units. Based on advice seen here, I decided to replace them with 1-watt units so they would be protective as Kenwood intended..... but instead of carbon types I used metal oxide film types. Seemed to be OK, so on to the real problem: good drive on 80M through 20M, but very low drive on 15M and none at all on 10M. Decided to replace the driver 12BY7A but problem still there, so I replaced the 6146W finals with two brand new JAN 6146Ws. I then tried checking the drive but as soon as I threw the SEND switch there was an arc..... the two 10 ohm metal oxide film resistors were fried. Aside from the possibility that metal oxide film resistors are not correct in that application, I'm not sure what I did wrong.... or what to do next. (Any advice appreciated)

73, Jerry K3BZ

----- Original Message -----
From: kevin
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, November 13, 2009 11:10 PM
Subject: [TS-520_820_530_830] Not my best night

Well I cleaned up a very nice 530 on the bench. Put it back together and did something so stupid it was hard for me to believe. Long story short while in the tune position and connected to a dummy load. I left it in the send position for quite a while. I had tripped the switch moving it around. Totally stupid. Came back to that awful smell of burned "stuff". Blew the 3 amp fuse in my isolation transformer and of course it will not tune up. Receive is fine. I am hoping against hope that all I did was fry the resistors at the finals.

Doesn't end there. To nurse my wounds I tuned up my 520 to play tonight. Tuned up great but when I tried to use it - zippo. Tuned it three more times same thing. Then I realized that the seeming problem is that when I switch from CW while tuning to USB or LSB I lost my "juice" Any ideas?

I have a rope around my neck but haven't kicked the ladder out yet. Tomorrow should be a better day.
73
Kevin

Yahoo! Groups Links

[Non-text portions of this message have been removed]

23452. Re: [TS-520_820_530_830] kenwood ts 530sp VFO drift on transmit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 23:12:27 UTC
From: martin
Topic: 23377 Message: 23452

Hi John. All of the PSK programs that I have used display the RX audio frequency in some fashion. I use Digipan because it is easy to set up and use, and it runs well on the ancient laptop (P166, 48 meg ram, 6 gig HD) that I use for digital modes. I have tried some other programs, but I like Digipan the best.

TTYL

John Davidson wrote:
> I have no practical knowledge of digi mode software...Do these
> programs actually display the audio frequencies being received like
> a a freq counter???
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at http://www.defectivebydesign.org/what_is_drm"

23453. Re: [TS-520_820_530_830] Not my best night

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 23:25:13 UTC
From: martin
Topic: 23433 Message: 23453

Hi Jerry. The metal film resisters should be just fine. Sounds like
possibly a short in one of the new 6146Ws. The low drive problem
might mean that the radio needs to be aligned.

I would first check the rig very carefully for any other parts that
look like they might be burnt etc... Then put the old 6146s back in,
replace the resisters again, and see what happens. The manual has
instructions for the basic alignment of the radio. If you attempt the
alignment, make sure to use the appropriate plastic tuning tool(s),
and do not force any coil slugs that seem stiff or stuck!

I suggest that you look at Kens (K4EAA) web site at
http://www.k4eaa.com/index.html
Lots of good info there, and he sells appropriate tuning tools as well
as other useful parts, including kits of resisters.

TTYL and good luck!

Jerry Keller wrote:
> Don't feel too bad.... I did something similar yesterday. In my
> newly acquired TS520S a previous owner had replaced the two
> 1-watt-10-ohm-5% resistors at the finals with 5-watt carbon units.
> Based on advice seen here, I decided to replace them with 1-watt
> units so they would be protective as Kenwood intended..... but
> instead of carbon types I used metal oxide film types. Seemed to be
> OK, so on to the real problem: good drive on 80M through 20M, but
> very low drive on 15M and none at all on 10M. Decided to replace
> the driver 12BY7A but problem still there, so I replaced the 6146W
> finals with two brand new JAN 6146Ws. I then tried checking the
> drive but as soon as I threw the SEND switch there was an arc.....
> the two 10 ohm metal oxide film resistors were fried. Aside from
> the possibility that metal oxide film resistors are not correct in
> that application, I'm not sure what I did wrong.... or what to do
> next. (Any advice appreciated)
>
> 73, Jerry K3BZ
>
>
> ----- Original Message ----- From: kevin To:
> TS-520_820_530_830@yahoogroups.com Sent: Friday, November 13, 2009
> 11:10 PM Subject: [TS-520_820_530_830] Not my best night
>
>
> Well I cleaned up a very nice 530 on the bench. Put it back
> together and did something so stupid it was hard for me to believe.
> Long story short while in the tune position and connected to a

> dummy load. I left it in the send position for quite a while. I
> had tripped the switch moving it around. Totally stupid. Came back
> to that awful smell of burned "stuff". Blew the 3 amp fuse in my
> isolation transformer and of course it will not tune up. Receive is
> fine. I am hoping against hope that all I did was fry the resistors
> at the finals.
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> Doesn't end there. To nurse my wounds I tuned up my 520 to play
> tonight. Tuned up great but when I tried to use it - zippo. Tuned
> it three more times same thing. Then I realized that the seeming
> problem is that when I switch from CW while tuning to USB or LSB I
> lost my "juice" Any ideas?
>
> I have a rope around my neck but haven't kicked the ladder out yet.
> Tomorrow should be a better day. 73 Kevin
>
>
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> ------------------------------------
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> Yahoo! Groups Links
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>
> [Non-text portions of this message have been removed]
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>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

23454. Re: [TS-520_820_530_830] Not my best night

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 23:28:26 UTC
From: n6wk@n6wk.com
Topic: 23433 Message: 23454

Jerry,
sounds like one of your new 6146W tubes arced or what we call " Had a
Glitch"
I have used MOF resistors without any issues.
Put your old 6146 finals back in and check the band switch but also
check ALL the solder joints under the RF board and all the Connectors
for bad contacts on the RF board.
Of course, you will need to replace those resistors first.
73,
Gordon
N6WK

Jerry Keller wrote:
>
>
> Don't feel too bad.... I did something similar yesterday. In my newly
> acquired TS520S a previous owner had replaced the two 1-watt-10-ohm-5%
> resistors at the finals with 5-watt carbon units. Based on advice seen
> here, I decided to replace them with 1-watt units so they would be
> protective as Kenwood intended..... but instead of carbon types I
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> problem: good drive on 80M through 20M, but very low drive on 15M and
> none at all on 10M. Decided to replace the driver 12BY7A but problem
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> SEND switch there was an arc..... the two 10 ohm metal oxide film
> resistors were fried. Aside from the possibility that metal oxide film
> resistors are not correct in that application, I'm not sure what I did
> wrong.... or what to do next. (Any advice appreciated)
>
> 73, Jerry K3BZ
>
> ----- Original Message -----
> From: kevin
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Friday, November 13, 2009 11:10 PM
> Subject: [TS-520_820_530_830] Not my best night
>
> Well I cleaned up a very nice 530 on the bench. Put it back together
> and did something so stupid it was hard for me to believe. Long story
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> it in the send position for quite a while. I had tripped the switch
> moving it around. Totally stupid. Came back to that awful smell of
> burned "stuff". Blew the 3 amp fuse in my isolation transformer and of

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> that all I did was fry the resistors at the finals.
>
> Doesn't end there. To nurse my wounds I tuned up my 520 to play
> tonight. Tuned up great but when I tried to use it - zippo. Tuned it
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> is that when I switch from CW while tuning to USB or LSB I lost my
> "juice" Any ideas?
>
> I have a rope around my neck but haven't kicked the ladder out yet.
> Tomorrow should be a better day.
> 73
> Kevin
>
> ------------------------------------
>
> Yahoo! Groups Links
>
> [Non-text portions of this message have been removed]
>
>

23455. TS-520SE - question about receiver calibration

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-14 23:41:00 UTC
From: Peter
Topic: 23455 Message: 23455

I recently acquired a TS-520SE and I want to do the calibration as described in section 6.3 - ?? of the owners manual. The first part is very clear and the steps are easy to follow. however, when I get to WWV adjustment I'm thrown off by references to T4 & T5. of course the warning "Do not attempt to tune coils T1 and T2" doesn't instill confidence. are these the same T1, Etc. that are in the service manual? If so, can the instructions in the user manual be followed instead of the service manual?

23456. 530 damage

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-15 00:18:10 UTC
From: kevin
Topic: 23456 Message: 23456

I have posted some pictures in the photos section of the finals area of my 530 after a slight melt-down last night. I have a 520 to use for part so at least some of this can be replaced. Anyone have any ideas? Also where are the resistors that typically blow when you do this. The picture album in titles 530 disaster.
Thanks,
Kevin

23457. the 530 delima

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-15 01:26:21 UTC
From: Rich Jones
Topic: 23457 Message: 23457

Dr OM Kevin: First of all the 530 lives on 6 amp fuses. And don't start this whiny thing here. I need a new knee, my wife has breat cancer and it is serious. Winter is about to set in here in SE Michigan and my F-150 has 200 K on it. In other words, your story is lame and you should be thankful for your minimum losses and thank God you can at least get around without pain. . Keep on sending CQ on 30 meters and hope the African station hears you. Vy 73 Rich K8UV

[Non-text portions of this message have been removed]

23458. Johns story on the TS 520 S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-15 01:35:50 UTC
From: Rich Jones
Topic: 23458 Message: 23458

John.I worked my first 100 countries on the TS520 S . Great rig, wish I still had it. good luck, my QSL card to you for sure if we can every work. 73 Rich K8UV

[Non-text portions of this message have been removed]

23459. Re: the 530 delima

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-15 01:44:21 UTC
From: n6wk_skcc3
Topic: 23457 Message: 23459

Being a tad Harsh there aren't you Rich??
We are here to HELP each other whenever and However we can.
I am very sorry to hear about your Wife. I hope and pray she beats it!
Thanks for your support.
Gordon
N6WK
Moderator

--- In TS-520_820_530_830@yahoogroups.com, Rich Jones <michjonezee@...> wrote:
>
> Dr OM Kevin: First of all the 530 lives on 6 amp fuses. And don't start this whiny thing here. I need a new knee, my wife has breat cancer and it is serious. Winter is about to set in here in SE Michigan and my F-150 has 200 K on it. In other words, your story is lame and you should be thankful for your minimum losses and thank God you can at least get around without pain. . Keep on sending CQ on 30 meters and hope the African station hears you. Vy 73 Rich K8UV
>
>
>
>
> [Non-text portions of this message have been removed]
>

23460. Re: [TS-520_820_530_830] the 530 delima

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-15 02:54:27 UTC
From: Paul
Topic: 23457 Message: 23460

Can some please correct me but I did not know they made 6 amp fuses I have only used 5amp fuses. Plus Rich stop this bickering as there are people worse of than you

Vk5FUZZ
Paul

-------Original Message-------

From: Rich Jones
Date: 11/15/09 11:56:58
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] the 530 delima

Dr OM Kevin: First of all the 530 lives on 6 amp fuses. And don't start this whiny thing here. I need a new knee, my wife has breat cancer and it is serious. Winter is about to set in here in SE Michigan and my F-150 has 200 K on it. In other words, your story is lame and you should be thankful for your minimum losses and thank God you can at least get around without pain. . Keep on sending CQ on 30 meters and hope the African station hears you. Vy 73 Rich K8UV

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23461. Re: the 530 delima

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-15 03:08:41 UTC
From: n6wk_skcc3
Topic: 23457 Message: 23461

Hi Paul,
Yes, I use only 6 amp fuses.
They make them. If you can't find any, let me know.

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Paul" <snowy520@...> wrote:
>
>
>
> Can some please correct me but I did not know they made 6 amp fuses I have
> only used 5amp fuses. Plus Rich stop this bickering as there are people
> worse of than you
>
> Vk5FUZZ
> Paul
>
>
> -------Original Message-------
>
> From: Rich Jones
> Date: 11/15/09 11:56:58
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] the 530 delima
>
>
> Dr OM Kevin: First of all the 530 lives on 6 amp fuses. And don't start
> this whiny thing here. I need a new knee, my wife has breat cancer and it
> is serious. Winter is about to set in here in SE Michigan and my F-150 has
> 200 K on it. In other words, your story is lame and you should be thankful
> for your minimum losses and thank God you can at least get around without
> pain. . Keep on sending CQ on 30 meters and hope the African station hears
> you. Vy 73 Rich K8UV
>
> [Non-text portions of this message have been removed]
>
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>
> [Non-text portions of this message have been removed]
>

23462. Re: [TS-520_820_530_830] Re: the 530 delima

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-15 03:18:42 UTC
From: Charlie , W5COV
Topic: 23457 Message: 23462

I think Ken lists a "service pack" or something similar to that of 6 amp fuses .

Charlie , W5COV

LowFER Becaon , CV , 185.298.25 kHz. , QRSS60 , 24 / 7 , EM26ex , OK.

[Non-text portions of this message have been removed]

23463. Re: [TS-520_820_530_830] Not my best night

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-15 04:13:17 UTC
From: Jerry Keller
Topic: 23433 Message: 23463

Does arcing like that ruin the tube? Or does it indicate a faulty tube to begin with? Is there any way to tell which of the two tubes arced? I just bought them, so I amy be able to arrange an exchange if I can identify the bad one.

Thanks for the advice.... 73, Jerry K3BZ
----- Original Message -----
From: n6wk@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, November 14, 2009 6:28 PM
Subject: Re: [TS-520_820_530_830] Not my best night

Jerry,
sounds like one of your new 6146W tubes arced or what we call " Had a
Glitch"
I have used MOF resistors without any issues.
Put your old 6146 finals back in and check the band switch but also
check ALL the solder joints under the RF board and all the Connectors
for bad contacts on the RF board.
Of course, you will need to replace those resistors first.
73,
Gordon
N6WK

Jerry Keller wrote:
>
>
> Don't feel too bad.... I did something similar yesterday. In my newly
> acquired TS520S a previous owner had replaced the two 1-watt-10-ohm-5%
> resistors at the finals with 5-watt carbon units. Based on advice seen
> here, I decided to replace them with 1-watt units so they would be
> protective as Kenwood intended..... but instead of carbon types I
> used metal oxide film types. Seemed to be OK, so on to the real
> problem: good drive on 80M through 20M, but very low drive on 15M and
> none at all on 10M. Decided to replace the driver 12BY7A but problem
> still there, so I replaced the 6146W finals with two brand new JAN
> 6146Ws. I then tried checking the drive but as soon as I threw the
> SEND switch there was an arc..... the two 10 ohm metal oxide film
> resistors were fried. Aside from the possibility that metal oxide film
> resistors are not correct in that application, I'm not sure what I did
> wrong.... or what to do next. (Any advice appreciated)
>
> 73, Jerry K3BZ
>
> ----- Original Message -----
> From: kevin
> To: TS-520_820_530_830@yahoogroups.com

> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Friday, November 13, 2009 11:10 PM
> Subject: [TS-520_820_530_830] Not my best night
>
> Well I cleaned up a very nice 530 on the bench. Put it back together
> and did something so stupid it was hard for me to believe. Long story
> short while in the tune position and connected to a dummy load. I left
> it in the send position for quite a while. I had tripped the switch
> moving it around. Totally stupid. Came back to that awful smell of
> burned "stuff". Blew the 3 amp fuse in my isolation transformer and of
> course it will not tune up. Receive is fine. I am hoping against hope
> that all I did was fry the resistors at the finals.
>
> Doesn't end there. To nurse my wounds I tuned up my 520 to play
> tonight. Tuned up great but when I tried to use it - zippo. Tuned it
> three more times same thing. Then I realized that the seeming problem
> is that when I switch from CW while tuning to USB or LSB I lost my
> "juice" Any ideas?
>
> I have a rope around my neck but haven't kicked the ladder out yet.
> Tomorrow should be a better day.
> 73
> Kevin
>
> ------------------------------------
>
> Yahoo! Groups Links
>
> [Non-text portions of this message have been removed]
>
>

Yahoo! Groups Links

[Non-text portions of this message have been removed]

23464. Re: [TS-520_820_530_830] Not my best night

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-15 04:25:17 UTC
From: Jerry Keller
Topic: 23433 Message: 23464

Hi, Martin... first thing I did to it was alignment as described in the Manual, using the correct tools. I have the 3 from Ken. All the slugs moved properly with correct results. It was a bit out on several adjustments, but when alignment was done it still had low drive on 15 and none on 10. Same after trying 5 new 12BY7s. I will replace the resistors and try again with original 6146Ws as you suggest, but I don't expect any different result as bottom line is I won't have changed anything from last try before the new tube arced. I guess I'll have to get another final and try that again?

73, Jerry K3BZ

----- Original Message -----
From: martin
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, November 14, 2009 6:25 PM
Subject: Re: [TS-520_820_530_830] Not my best night

Hi Jerry. The metal film resisters should be just fine. Sounds like
possibly a short in one of the new 6146Ws. The low drive problem
might mean that the radio needs to be aligned.

I would first check the rig very carefully for any other parts that
look like they might be burnt etc... Then put the old 6146s back in,
replace the resisters again, and see what happens. The manual has
instructions for the basic alignment of the radio. If you attempt the
alignment, make sure to use the appropriate plastic tuning tool(s),
and do not force any coil slugs that seem stiff or stuck!

I suggest that you look at Kens (K4EAA) web site at
http://www.k4eaa.com/index.html
Lots of good info there, and he sells appropriate tuning tools as well
as other useful parts, including kits of resisters.

TTYL and good luck!

Jerry Keller wrote:
> Don't feel too bad.... I did something similar yesterday. In my
> newly acquired TS520S a previous owner had replaced the two
> 1-watt-10-ohm-5% resistors at the finals with 5-watt carbon units.
> Based on advice seen here, I decided to replace them with 1-watt
> units so they would be protective as Kenwood intended..... but
> instead of carbon types I used metal oxide film types. Seemed to be
> OK, so on to the real problem: good drive on 80M through 20M, but
> very low drive on 15M and none at all on 10M. Decided to replace
> the driver 12BY7A but problem still there, so I replaced the 6146W
> finals with two brand new JAN 6146Ws. I then tried checking the
> drive but as soon as I threw the SEND switch there was an arc.....
> the two 10 ohm metal oxide film resistors were fried. Aside from

> the possibility that metal oxide film resistors are not correct in
> that application, I'm not sure what I did wrong.... or what to do
> next. (Any advice appreciated)
>
> 73, Jerry K3BZ
>
>
> ----- Original Message ----- From: kevin To:
> TS-520_820_530_830@yahoogroups.com Sent: Friday, November 13, 2009
> 11:10 PM Subject: [TS-520_820_530_830] Not my best night
>
>
> Well I cleaned up a very nice 530 on the bench. Put it back
> together and did something so stupid it was hard for me to believe.
> Long story short while in the tune position and connected to a
> dummy load. I left it in the send position for quite a while. I
> had tripped the switch moving it around. Totally stupid. Came back
> to that awful smell of burned "stuff". Blew the 3 amp fuse in my
> isolation transformer and of course it will not tune up. Receive is
> fine. I am hoping against hope that all I did was fry the resistors
> at the finals.
>
> Doesn't end there. To nurse my wounds I tuned up my 520 to play
> tonight. Tuned up great but when I tried to use it - zippo. Tuned
> it three more times same thing. Then I realized that the seeming
> problem is that when I switch from CW while tuning to USB or LSB I
> lost my "juice" Any ideas?
>
> I have a rope around my neck but haven't kicked the ladder out yet.
> Tomorrow should be a better day. 73 Kevin
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
> [Non-text portions of this message have been removed]
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html

"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

Yahoo! Groups Links

[Non-text portions of this message have been removed]

23465. Re: [TS-520_820_530_830] Not my best night

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-15 14:25:43 UTC
From: martin
Topic: 23433 Message: 23465

Hi Jerry. I wouldn't expect any difference, just for the radio to (hopefully) still work as before. Replacing the finals will not help the low drive problem. My TS-530S does have less drive on 15M, 12m, and 10M. I have to turn up the Car control more than on the other bands. This is with a new 12by7a.

A shorted tube is just plane bad. I would return both tubes. Sometimes they can become shorted from rough handling during shipping. The best was to test tubes is with a tube tester. You can use an ohm meter. The only two pins that should get a low resistance reading are the pins that connect to the heater.

TTYL

Jerry Keller wrote:
> Hi, Martin... first thing I did to it was alignment as described in
> the Manual, using the correct tools. I have the 3 from Ken. All
> the slugs moved properly with correct results. It was a bit out on
> several adjustments, but when alignment was done it still had low
> drive on 15 and none on 10. Same after trying 5 new 12BY7s. I
> will replace the resistors and try again with original 6146Ws as
> you suggest, but I don't expect any different result as bottom line
> is I won't have changed anything from last try before the new tube
> arced. I guess I'll have to get another final and try that again?
>
> 73, Jerry K3BZ
>
>

>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at http://www.defectivebydesign.org/what_is_drm"

23466. Re: [TS-520_820_530_830] Re: the 530 delima

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-15 16:01:16 UTC
From: John Davidson
Topic: 23457 Message: 23466

Use "slow blow" fuses, Gives you more time to see where the smoke is coming from ! :D

--- On Sat, 11/14/09, n6wk_skcc3 <n6wk@...> wrote:

From: n6wk_skcc3 <n6wk@...>
Subject: [TS-520_820_530_830] Re: the 530 delima
To: TS-520_820_530_830@yahoogroups.com
Date: Saturday, November 14, 2009, 10:08 PM

Hi Paul,
Yes, I use only 6 amp fuses.
They make them. If you can't find any, let me know.

73,
Gordon

--- In TS-520_820_530_ 830@yahoogroups. com, "Paul" <snowy520@.. .> wrote:
>
>
>
> Can some please correct me but I did not know they made 6 amp fuses I have
> only used 5amp fuses. Plus Rich stop this bickering as there are people
> worse of than you
>
> Vk5FUZZ
> Paul
>
>
> -------Original Message----- --
>
> From: Rich Jones
> Date: 11/15/09 11:56:58
> To: TS-520_820_530_ 830@yahoogroups. com
> Subject: [TS-520_820_ 530_830] the 530 delima
>
>
> Dr OM Kevin: First of all the 530 lives on 6 amp fuses. And don't start
> this whiny thing here. I need a new knee, my wife has breat cancer and it
> is serious. Winter is about to set in here in SE Michigan and my F-150 has
> 200 K on it. In other words, your story is lame and you should be thankful
> for your minimum losses and thank God you can at least get around without
> pain. . Keep on sending CQ on 30 meters and hope the African station hears
> you. Vy 73 Rich K8UV
>
> [Non-text portions of this message have been removed]
>

>
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> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

23467. 6146 tube

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-15 17:22:34 UTC
From: Stephen Judd
Topic: 23467 Message: 23467

I would like to know what the feeling about these tubes they are new stock

NATIONAL 6146B/8298A/S2001A
 Stephen/KB7BGS

[Non-text portions of this message have been removed]

23468. Fw: 6146 tube

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-15 17:25:32 UTC
From: Stephen Judd
Topic: 23468 Message: 23468

they are made in china
 Stephen/KB7BGS

----- Forwarded Message ----
From: Stephen Judd <swanradios@...>
To: Kenwood goups <TS-520_820_530_830@yahoogroups.com>
Sent: Sun, November 15, 2009 10:22:34 AM
Subject: 6146 tube

I would like to know what the feeling about these tubes they are new stock

NATIONAL 6146B/8298A/S2001A
 Stephen/KB7BGS

[Non-text portions of this message have been removed]

23469. Re: [TS-520_820_530_830] Not my best night

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-16 00:06:11 UTC
From: n6wk@n6wk.com
Topic: 23433 Message: 23469

Hi Jerry,
YES, Tube has an internal short. No longer usable in my experience.
Only way I know of to find the shorted tubes is swap them with another known good tube one at a time.
You will quickly find the bad one but might have to replace resistors again :)
I would send them back for another pair. They usually will not show a short on a tube tester. They usually only short when they are trying to actually work instead of Idle .
Your Low ALC can be caused by Dirty Band switch contacts for 15 and 10 meters, and/or perhaps some resistors going high in value in that circuit.
While you have the Finals board out to replace the blown resistors be sure to Check all the other resistors in there too with a meter. Looks can be deceiving. I have seen many resistors that physically looked perfect, but were bad when placed across my ohm meter. Take Nothing for granted hi hi..

73,
Gordon
N6WK

Jerry Keller wrote:
>
>
> Does arcing like that ruin the tube? Or does it indicate a faulty tube
> to begin with? Is there any way to tell which of the two tubes arced?
> I just bought them, so I amy be able to arrange an exchange if I can
> identify the bad one.
>
> Thanks for the advice.... 73, Jerry K3BZ
> ----- Original Message -----
> From: n6wk@... <mailto:n6wk%40n6wk.com>
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Saturday, November 14, 2009 6:28 PM
> Subject: Re: [TS-520_820_530_830] Not my best night
>
> Jerry,
> sounds like one of your new 6146W tubes arced or what we call " Had a
> Glitch"
> I have used MOF resistors without any issues.
> Put your old 6146 finals back in and check the band switch but also
> check ALL the solder joints under the RF board and all the Connectors
> for bad contacts on the RF board.

> Of course, you will need to replace those resistors first.
> 73,
> Gordon
> N6WK
>
> Jerry Keller wrote:
> >
> >
> > Don't feel too bad.... I did something similar yesterday. In my newly
> > acquired TS520S a previous owner had replaced the two 1-watt-10-ohm-5%
> > resistors at the finals with 5-watt carbon units. Based on advice seen
> > here, I decided to replace them with 1-watt units so they would be
> > protective as Kenwood intended..... but instead of carbon types I
> > used metal oxide film types. Seemed to be OK, so on to the real
> > problem: good drive on 80M through 20M, but very low drive on 15M and
> > none at all on 10M. Decided to replace the driver 12BY7A but problem
> > still there, so I replaced the 6146W finals with two brand new JAN
> > 6146Ws. I then tried checking the drive but as soon as I threw the
> > SEND switch there was an arc..... the two 10 ohm metal oxide film
> > resistors were fried. Aside from the possibility that metal oxide film
> > resistors are not correct in that application, I'm not sure what I did
> > wrong.... or what to do next. (Any advice appreciated)
> >
> > 73, Jerry K3BZ
> >
> > ----- Original Message -----
> > From: kevin
> > To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > <mailto:TS-520_820_530_830%40yahoogroups.com>
> > Sent: Friday, November 13, 2009 11:10 PM
> > Subject: [TS-520_820_530_830] Not my best night
> >
> > Well I cleaned up a very nice 530 on the bench. Put it back together
> > and did something so stupid it was hard for me to believe. Long story
> > short while in the tune position and connected to a dummy load. I left
> > it in the send position for quite a while. I had tripped the switch
> > moving it around. Totally stupid. Came back to that awful smell of
> > burned "stuff". Blew the 3 amp fuse in my isolation transformer and of
> > course it will not tune up. Receive is fine. I am hoping against hope
> > that all I did was fry the resistors at the finals.
> >
> > Doesn't end there. To nurse my wounds I tuned up my 520 to play
> > tonight. Tuned up great but when I tried to use it - zippo. Tuned it
> > three more times same thing. Then I realized that the seeming problem
> > is that when I switch from CW while tuning to USB or LSB I lost my
> > "juice" Any ideas?
> >
> > I have a rope around my neck but haven't kicked the ladder out yet.
> > Tomorrow should be a better day.

> > 73
> > Kevin
> >
> > ------------------------------------
> >
>

23470. best mic for the TS-830S ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-16 01:42:09 UTC
From: ve3pie
Topic: 23470 Message: 23470

I need a mic for the TS-830S
I've been looking at the internet with very conflicting information about the mc-50, mc-60, and mc-60A
Is the mc-60 amplified or not? I know the mc-50 is not amplified. I know the mc-60A is amplified. What's the difference between the mc-60 and mc-60A? Also read about RFI with the mc-60
I read that the 830S rig should not use the amplified mic.
The mc-60 looks a lot nicer than the mc-50, and the amp could be disabled on the mc-60.
so that brings me back to trying to select between the mc-60 versus mc-60A. Is the RFI a big problem? I see there a lot of fixes for it.
hope someone can sort this out for me and help me select a mic.
thanks, Fred

23471. Re: [TS-520_820_530_830] best mic for the TS-830S ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-16 03:28:16 UTC
From: Jonathan B. O'Rear
Topic: 23470 Message: 23471

What about the Shure Brothers 444?
Jonathan B. O'Rear / AT&T Blackberry Bold 9000

-----Original Message-----
From: "ve3pie" <ve3pie@...>
Date: Mon, 16 Nov 2009 01:42:09
To: <TS-520_820_530_830@yahoogroups.com>
Subject: [TS-520_820_530_830] best mic for the TS-830S ?

I need a mic for the TS-830S
I've been looking at the internet with very conflicting information about the mc-50, mc-60, and mc-60A
Is the mc-60 amplified or not? I know the mc-50 is not amplified. I know the mc-60A is amplified. What's the difference between the mc-60 and mc-60A? Also read about RFI with the mc-60
I read that the 830S rig should not use the amplified mic.
The mc-60 looks a lot nicer than the mc-50, and the amp could be disabled on the mc-60.
so that brings me back to trying to select between the mc-60 versus mc-60A. Is the RFI a big problem? I see there a lot of fixes for it.
hope someone can sort this out for me and help me select a mic.
thanks, Fred

[Non-text portions of this message have been removed]

23472. Re: [TS-520_820_530_830] best mic for the TS-830S ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-16 04:06:49 UTC
From: Ruben Echevarria
Topic: 23470 Message: 23472

Funny I was going to say the same thing until I read the next post.
The MC50 or a Shure 444 would do it.
 Ruben Echevarria KA2HHB
070 Club#861 30MDG#1148
10-10#33308

From: Jonathan B. O'Rear <jonkd4mpw@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sun, November 15, 2009 10:28:16 PM
Subject: Re: [TS-520_820_530_830] best mic for the TS-830S ?

What about the Shure Brothers 444?
Jonathan B. O'Rear / AT&T Blackberry Bold 9000

-----Original Message-----
From: "ve3pie" <ve3pie@yahoo. com>
Date: Mon, 16 Nov 2009 01:42:09
To: <TS-520_820_530_ 830@yahoogroups. com>
Subject: [TS-520_820_ 530_830] best mic for the TS-830S ?

I need a mic for the TS-830S
I've been looking at the internet with very conflicting information about the mc-50, mc-60, and mc-60A
Is the mc-60 amplified or not? I know the mc-50 is not amplified. I know the mc-60A is amplified. What's the difference between the mc-60 and mc-60A? Also read about RFI with the mc-60
I read that the 830S rig should not use the amplified mic.
The mc-60 looks a lot nicer than the mc-50, and the amp could be disabled on the mc-60.
so that brings me back to trying to select between the mc-60 versus mc-60A. Is the RFI a big problem? I see there a lot of fixes for it.
hope someone can sort this out for me and help me select a mic.
thanks, Fred

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23473. Re: [TS-520_820_530_830] Not my best night

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-16 04:35:19 UTC
From: Jerry Keller
Topic: 23433 Message: 23473

OK, Gordon, We'll try that tomorrow or Tuesday and send the tubes back. Will keep busy while waitingfor them by checking all the resistors in the finals and looking for problems on the RF board.

73, and thanks. ... Jerry K3BZ
----- Original Message -----
From: n6wk@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, November 15, 2009 7:06 PM
Subject: Re: [TS-520_820_530_830] Not my best night

Hi Jerry,
YES, Tube has an internal short. No longer usable in my experience.
Only way I know of to find the shorted tubes is swap them with another known good tube one at a time.
You will quickly find the bad one but might have to replace resistors again :)
I would send them back for another pair. They usually will not show a short on a tube tester. They usually only short when they are trying to actually work instead of Idle .
Your Low ALC can be caused by Dirty Band switch contacts for 15 and 10 meters, and/or perhaps some resistors going high in value in that circuit.
While you have the Finals board out to replace the blown resistors be sure to Check all the other resistors in there too with a meter. Looks can be deceiving. I have seen many resistors that physically looked perfect, but were bad when placed across my ohm meter. Take Nothing for granted hi hi..

73,
Gordon
N6WK

Jerry Keller wrote:
>
>
> Does arcing like that ruin the tube? Or does it indicate a faulty tube
> to begin with? Is there any way to tell which of the two tubes arced?
> I just bought them, so I amy be able to arrange an exchange if I can
> identify the bad one.
>
> Thanks for the advice.... 73, Jerry K3BZ
> ----- Original Message -----
> From: n6wk@... <mailto:n6wk%40n6wk.com>
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>

> Sent: Saturday, November 14, 2009 6:28 PM
> Subject: Re: [TS-520_820_530_830] Not my best night
>
> Jerry,
> sounds like one of your new 6146W tubes arced or what we call " Had a
> Glitch"
> I have used MOF resistors without any issues.
> Put your old 6146 finals back in and check the band switch but also
> check ALL the solder joints under the RF board and all the Connectors
> for bad contacts on the RF board.
> Of course, you will need to replace those resistors first.
> 73,
> Gordon
> N6WK
>
> Jerry Keller wrote:
> >
> >
> > Don't feel too bad.... I did something similar yesterday. In my newly
> > acquired TS520S a previous owner had replaced the two 1-watt-10-ohm-5%
> > resistors at the finals with 5-watt carbon units. Based on advice seen
> > here, I decided to replace them with 1-watt units so they would be
> > protective as Kenwood intended..... but instead of carbon types I
> > used metal oxide film types. Seemed to be OK, so on to the real
> > problem: good drive on 80M through 20M, but very low drive on 15M and
> > none at all on 10M. Decided to replace the driver 12BY7A but problem
> > still there, so I replaced the 6146W finals with two brand new JAN
> > 6146Ws. I then tried checking the drive but as soon as I threw the
> > SEND switch there was an arc..... the two 10 ohm metal oxide film
> > resistors were fried. Aside from the possibility that metal oxide film
> > resistors are not correct in that application, I'm not sure what I did
> > wrong.... or what to do next. (Any advice appreciated)
> >
> > 73, Jerry K3BZ
> >
> > ----- Original Message -----
> > From: kevin
> > To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > <mailto:TS-520_820_530_830%40yahoogroups.com>
> > Sent: Friday, November 13, 2009 11:10 PM
> > Subject: [TS-520_820_530_830] Not my best night
> >
> > Well I cleaned up a very nice 530 on the bench. Put it back together
> > and did something so stupid it was hard for me to believe. Long story
> > short while in the tune position and connected to a dummy load. I left
> > it in the send position for quite a while. I had tripped the switch
> > moving it around. Totally stupid. Came back to that awful smell of
> > burned "stuff". Blew the 3 amp fuse in my isolation transformer and of
> > course it will not tune up. Receive is fine. I am hoping against hope

> > that all I did was fry the resistors at the finals.
> >
> > Doesn't end there. To nurse my wounds I tuned up my 520 to play
> > tonight. Tuned up great but when I tried to use it - zippo. Tuned it
> > three more times same thing. Then I realized that the seeming problem
> > is that when I switch from CW while tuning to USB or LSB I lost my
> > "juice" Any ideas?
> >
> > I have a rope around my neck but haven't kicked the ladder out yet.
> > Tomorrow should be a better day.
> > 73
> > Kevin
> >
> > ------------------------------------
> >
>

Yahoo! Groups Links

[Non-text portions of this message have been removed]

23474. Re: [TS-520_820_530_830] best mic for the TS-830S ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-16 05:22:55 UTC
From: martin
Topic: 23470 Message: 23474

Hi Fred. I would go with the MC-50, which is the desk mic designed for use with Kenwood radios with a 4 pin mic jack. The MC-60 and MC-60A were designed for newer Kenwood radios with an 8 pin mic jack.

You can wire a 4 pin mic plug on an MC-60 or MC-60A. I have heard about the RF problems with the MC-60, but I have not owned one. I believe that the MC60 and MC-60A are both amplified, and both can have the amp disabled.

Just my thoughts.

TTYL

ve3pie wrote:
> I need a mic for the TS-830S I've been looking at the internet with
> very conflicting information about the mc-50, mc-60, and mc-60A Is
> the mc-60 amplified or not? I know the mc-50 is not amplified. I
> know the mc-60A is amplified. What's the difference between the
> mc-60 and mc-60A? Also read about RFI with the mc-60 I read that
> the 830S rig should not use the amplified mic. The mc-60 looks a
> lot nicer than the mc-50, and the amp could be disabled on the
> mc-60. so that brings me back to trying to select between the mc-60
> versus mc-60A. Is the RFI a big problem? I see there a lot of fixes
> for it. hope someone can sort this out for me and help me select a
> mic. thanks, Fred
>
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

23475. Re: best mic for the TS-830S ?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-16 16:35:39 UTC
From: ve3pie
Topic: 23470 Message: 23475

thanks veryone for your thoughts on the mic for the TS-830S
Fred

--- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@...> wrote:
>
> Hi Fred. I would go with the MC-50, which is the desk mic designed
> for use with Kenwood radios with a 4 pin mic jack. The MC-60 and
> MC-60A were designed for newer Kenwood radios with an 8 pin mic jack.
>
> You can wire a 4 pin mic plug on an MC-60 or MC-60A. I have heard
> about the RF problems with the MC-60, but I have not owned one. I
> believe that the MC60 and MC-60A are both amplified, and both can have
> the amp disabled.
>
> Just my thoughts.
>
> TTYL
>
> ve3pie wrote:
> > I need a mic for the TS-830S I've been looking at the internet with
> > very conflicting information about the mc-50, mc-60, and mc-60A Is
> > the mc-60 amplified or not? I know the mc-50 is not amplified. I
> > know the mc-60A is amplified. What's the difference between the
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> > the 830S rig should not use the amplified mic. The mc-60 looks a
> > lot nicer than the mc-50, and the amp could be disabled on the
> > mc-60. so that brings me back to trying to select between the mc-60
> > versus mc-60A. Is the RFI a big problem? I see there a lot of fixes
> > for it. hope someone can sort this out for me and help me select a
> > mic. thanks, Fred
> >
> >
> >
>
> --
> CUL8R
>
> KBOHAE kb0hae@... Martin Campbell
>
> A Satisfied Sidux Linux user! To get Sidux go to:
> www.sidux.com/index.html
> "Protect your digital freedom and privacy, eliminate DRM, learn more
> at http://www.defectivebydesign.org/what_is_drm"
>

23476. af board for a kenwood 830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-16 13:34:02 UTC
From: n5yhz
Topic: 23476 Message: 23476

Hello All. Iam new to this group,looks like a Great place.I have a ts-830 that I have been working on for a while. (when I have time) Iam looking for a good af board or a relay to repair the one that I have.The board I have has a few other problems but I think the relay is going to be the hardest to fix. If you have a board that you could part with please let me know what you want for it. Thanks for the help. 73s Charlie...(N5YHZ)

23477. RE: [TS-520_820_530_830] af board for a kenwood 830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-16 18:21:51 UTC
From: Dick Merryman
Topic: 23476 Message: 23477

These relays are available from K4EAA for $19.95. See
http://www.k4eaa.com/parts.htm .

-Dick-
N3XRU

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n5yhz
Sent: Monday, November 16, 2009 5:34 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] af board for a kenwood 830

Hello All. Iam new to this group,looks like a Great place.I have a ts-830
that I have been working on for a while. (when I have time) Iam looking for
a good af board or a relay to repair the one that I have.The board I have
has a few other problems but I think the relay is going to be the hardest to
fix. If you have a board that you could part with please let me know what
you want for it. Thanks for the help. 73s Charlie...(N5YHZ)

[Non-text portions of this message have been removed]

23478. Ruggedness of the TS-520, et al

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-16 21:44:08 UTC
From: LANSWITCH@aol.com
Topic: 23478 Message: 23478

I have been a lurker on this group for quite some time now, only because I have not had anything to ask and because I don't really have the technical expertise to make any contributions.

Finally I have recalled an incident with a TS-520 that I would like to share.

Many years ago, having replaced my old, tired 12BY7 and 6146's and neutralizing the rig, I had an interesting thing happen. For the next few months I had many fine QSO's, you know the regular kind, short exchanges bantering back and forth and not really long rag-chews. One evening I was engrossed with another Ham in a very long SSB QSO on 40 Meters and had become quite long winded, having ID'ed probably twice without turning over to the other fellow.

Suddenly billows of thick black, foul smelling smoke began to issue forth from the rear of the rig, propelled by the fan. I immediately flipped the Power Switch off and waited for the rig to stop smoking. Fearing what I would find, I cautiously removed the top and bottom covers to see where the scorch marks were on the printed circuit boards, hoping that they would indicate the failed component. Lo and behold, nothing, nada, not even soot, the rig was clean as a whistle.

Being that the only thing I had recently changed was the tubes, I replaced them with the original, old ones I had removed a while back. They were good, just not putting out the full power that they had in the past. I put the rig back together and, with great trepidation, I flipped on the Power Switch. Again, nothing, just normal sounds of the 40 Meter band. I flipped on the Heater Switch and held my breath. Again nothing out of the ordinary, certainly not black smoke again. I tuned up into a dummy load and all was well. I was breathing easier now. I put out a short CQ and was answered in no time.

I kept that rig for the next few years and it never skipped a beat. I figure that one or both of the finals were faulty, but neither of them nor the 12BY7 were discolored internally or externally. I tossed them and thanked the "ether-spirits" that all I lost was the tubes and not the rig. Perhaps it was the gunk inside the base of the finals or something under the Plate Caps, either way that rig never failed me (even when it failed me).

Currently I have a TS-530S, another work-horse of a rig, a TS-130, A Yeasu FT-7 and a MFJ-9320 (both SSB QRP rigs). I'm also building a PSK80 Warbler for my first foray into digital.

Happy Holidays to all and have enjoyable QSO's.

Bob KE9PP

23479. Re: [TS-520_820_530_830] Re: Great diagnistic skills

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-17 00:43:34 UTC
From: mark helinski
Topic: 23402 Message: 23479

dear ts 520 group
i havea ts 520 for sale askin 185.00 plus shipping
email me if intesrested

--- On Fri, 11/13/09, Music Maker <jhaddleton@...> wrote:

From: Music Maker <jhaddleton@...>
Subject: [TS-520_820_530_830] Re: Great diagnistic skills
To: TS-520_820_530_830@yahoogroups.com
Date: Friday, November 13, 2009, 11:32 PM

Hi Kevin,

From your post, and the responses so far, I have found Ebay much different here in UK, to the 'US Experience'. .

I have bought my and sold my last 3 cars (all unseen) - A Volvo Station Wagon, Mazda 323, and lastly my Renault Megane 'Scenic' MPV Diesel (it cost me 500 dollars in US money!) that I have now driven for the last 18 months.

I have also, as a Musician, bought and sold Organs and Keyboards, and this last week or so, bought Amateur Radio Equipment - a Kenwood TS 530, 230 ATU, MC 50, and MP-1 Antenna. (Described and pictured on my web site at www.John4Music. TV <http://www.John4Mus ic.TV> Under the 'Amateur Radio' Button.).

Everything I have ever bought has been 'As Described' - I have met some great people, and have never had a bad deal (I am up to over 200 !).

In this country, you can drive to collect, or deliver in most Cities. I am smack bang in the middle of UK, and there is not much that is farther than 200 miles away! If I go due East - the North Sea is about 100 miles, If I go due West, I can bathe in the Irish Sea in North Wales 65 Miles away !! Birmingham (our second biggest City), is 40 Miles South, London 150 Miles South. South Coast about 220 miles!. Liverpool is about 90 Miles North West, and Glasgow (Scotland), is about 250 miles North !!

Although I lived and worked in the US for ten years (and stole one of your beautiful ladies!), I still find UK quite a big place !!

What I am trying to say, is that if someone did 'Rob' you on Ebay in UK, it isn't far to go with the old Fox .410 to give them both barrels, so perhaps we HAVE to play fair!

Some great responses to your post.

Kind regards & 73's

John

www.John4Music. TV <http://www.John4Mus ic.TV>

Support the Arts - Feed A Musician !

I was born with nothing ..... 74 years later I still have most of it left !

I am not a 'HAM' ..... I am a 'Licensed Radio Amateur' !

--- In TS-520_820_530_ 830@yahoogroups. com, "kevin" <kmx888@...> wrote:
>
> I bought a 530 from E-Bay recently. I thought it might be a nice upgrade from my 520. Receive worked well and I liked the digital display. But I couldn't get it to tune up. No drive no nothing. Like a good member I spent several hours combing the messages to see if I could find any insight. Try searching for "drive" in the messages sometime. Finally I figured I'd better open it up and see if anything was obvious. That much I also learned here.
> I did open it up and thanks to my great diagnostic skill found the problem right away - No tubes. I have been laughing at myself all evening. Check the simple and the obvious is the lesson to be learned here.
> 73
> Kevin
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23480. Searching for Info !!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-17 13:15:02 UTC
From: Music Maker
Topic: 23480 Message: 23480

Hello All,

As most who follow my posts know, I am just setting myself up a new station, after an absence from Amateur Radio of about 40 years.

Once I had decided to buy a Transciever and the model (I am a pensioner on a low income, so 'bang per Buck' was a major consideration!), I started scouring the internet to glean as much knowledge about my chosen Transciever (The TS 520 SE), and its accessories.

Pictures, Specifications, and articles are in many places on the internet, and during my searches, I was also pleased to 'discover' this Group!, but I had a little 'brainwave' ..... (and it was painful !!)
..HI !

I decided to collate all the information I have gathered so far, specific to the TS 520 all in one place for future 'searchers' and would like to ask for Members to have a look at what I have done so far, and if they know of further articles on Mods, repairs, or information that could or should be included, that is not there, would they please point me to it?

I would also like to hear constructive critique on what I have done so far.

Perhaps a member who (like me!) has time on their hands would like to do the same for their model of Kenwood Transceiver, and in the same format, and I would be happy to host those pages.

My Email is.... jhaddleton@... <mailto:jhaddleton@...>

The web page for the TS 520 is H E R E
<http://www.john4music.tv/27.html>

Kindest Regards and 73's to all,

John

.....\
.....\
.....

I was Born with nothing ..... 74 years leter, I still have most of it left !

Support the Arts ..... Feed a Musician !

I am not a 'HAM' ! ..... I am a 'Licenced Radio Amateur'.

[Non-text portions of this message have been removed]

23481. Re: af board for a kenwood 830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-17 11:20:48 UTC
From: n5yhz
Topic: 23476 Message: 23481

Hi Dick. Thanks for the tip. I contacted Ken and it's in the mail. Thanks again.
Charlie...(N5YHZ)

--- In TS-520_820_530_830@yahoogroups.com, "Dick Merryman" <dicko@...> wrote:
>
> These relays are available from K4EAA for $19.95. See
> http://www.k4eaa.com/parts.htm .
>
> -Dick-
> N3XRU
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n5yhz
> Sent: Monday, November 16, 2009 5:34 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] af board for a kenwood 830
>
>
>
>
> Hello All. Iam new to this group,looks like a Great place.I have a ts-830
> that I have been working on for a while. (when I have time) Iam looking for
> a good af board or a relay to repair the one that I have.The board I have
> has a few other problems but I think the relay is going to be the hardest to
> fix. If you have a board that you could part with please let me know what
> you want for it. Thanks for the help. 73s Charlie...(N5YHZ)
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

23482. Re: Searching for Info !!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-17 17:19:43 UTC
From: David
Topic: 23480 Message: 23482

John.
Nice job on the site. you may want to add the details found here at the following link.

http://www.k4eaa.com/types.html

I have owned my TS -520s for many years, she has never missed a beat, original tubes.
Good luck in ur hunt for info.
73
Dave kg4uxr

--- In TS-520_820_530_830@yahoogroups.com, "Music Maker" <jhaddleton@...> wrote:
>
>
>
>
> Hello All,
>
> As most who follow my posts know, I am just setting myself up a new
> station, after an absence from Amateur Radio of about 40 years.
>
> Once I had decided to buy a Transciever and the model (I am a pensioner
> on a low income, so 'bang per Buck' was a major consideration!), I
> started scouring the internet to glean as much knowledge about my chosen
> Transciever (The TS 520 SE), and its accessories.
>
> Pictures, Specifications, and articles are in many places on the
> internet, and during my searches, I was also pleased to 'discover' this
> Group!, but I had a little 'brainwave' ..... (and it was painful !!)
> ..HI !
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> I decided to collate all the information I have gathered so far,
> specific to the TS 520 all in one place for future 'searchers' and would
> like to ask for Members to have a look at what I have done so far, and
> if they know of further articles on Mods, repairs, or information that
> could or should be included, that is not there, would they please point
> me to it?
>
> I would also like to hear constructive critique on what I have done so
> far.
>
> Perhaps a member who (like me!) has time on their hands would like to
> do the same for their model of Kenwood Transceiver, and in the same
> format, and I would be happy to host those pages.
>
> My Email is.... jhaddleton@... <mailto:jhaddleton@...>
>

> The web page for the TS 520 is H E R E
> <http://www.john4music.tv/27.html>
>
> Kindest Regards and 73's to all,
>
> John
>
> ....\
> ....\
> ....
>
> I was Born with nothing .... 74 years leter, I still have most of it
> left !
>
> Support the Arts ...... Feed a Musician !
>
> I am not a 'HAM' ! .... I am a 'Licenced Radio Amateur'.
>
>
>
> [Non-text portions of this message have been removed]
>

23483. Re: Searching for Info !!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-17 17:19:17 UTC
From: kj4aur
Topic: 23480 Message: 23483

John, very kind of you to compile this information. I believe the information stating the SM-220 with the BS-8 for the TS-520S is incorrect, I am under the impression the TS-520S requires the BS-5 because the IF is 3395 kHz. The BS-8 is used with an IF of 8830kHz.

http://www.universal-radio.com/CATALOG/hamhf/ts520s.html also shows the BS-5 as opposed to the BS-8.

Thanks and 73,
Nathan / KJ4AUR

--- In TS-520_820_530_830@yahoogroups.com, "Music Maker" <jhaddleton@...> wrote:
>
>
>
>
> Hello All,
>
> As most who follow my posts know, I am just setting myself up a new
> station, after an absence from Amateur Radio of about 40 years.
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> ..HI !
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> specific to the TS 520 all in one place for future 'searchers' and would
> like to ask for Members to have a look at what I have done so far, and
> if they know of further articles on Mods, repairs, or information that
> could or should be included, that is not there, would they please point
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> far.
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> Perhaps a member who (like me!) has time on their hands would like to
> do the same for their model of Kenwood Transceiver, and in the same
> format, and I would be happy to host those pages.
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> My Email is.... jhaddleton@... <mailto:jhaddleton@...>
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> The web page for the TS 520 is H E R E
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> Kindest Regards and 73's to all,
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>
>
>
> [Non-text portions of this message have been removed]
>

23484. Re: Searching for Info !!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-17 18:53:35 UTC
From: w5rkl
Topic: 23480 Message: 23484

Nathan, you are correct, for the reasons you have stated.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "kj4aur" <kj4aur@...> wrote:
>
>
>
> John, very kind of you to compile this information. I believe the information stating the SM-220 with the BS-8 for the TS-520S is incorrect, I am under the impression the TS-520S requires the BS-5 because the IF is 3395 kHz. The BS-8 is used with an IF of 8830kHz.
>
> http://www.universal-radio.com/CATALOG/hamhf/ts520s.html also shows the BS-5 as opposed to the BS-8.
>
> Thanks and 73,
> Nathan / KJ4AUR
>
> --- In TS-520_820_530_830@yahoogroups.com, "Music Maker" <jhaddleton@> wrote:
> >
> >
> >
> >
> > Hello All,
> >
> > As most who follow my posts know, I am just setting myself up a new
> > station, after an absence from Amateur Radio of about 40 years.
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> > Pictures, Specifications, and articles are in many places on the
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> > Group!, but I had a little 'brainwave' ..... (and it was painful !!)
> > ..HI !
> >
> > I decided to collate all the information I have gathered so far,
> > specific to the TS 520 all in one place for future 'searchers' and would
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> > could or should be included, that is not there, would they please point
> > me to it?

> >
> > I would also like to hear constructive critique on what I have done so
> > far.
> >
> > Perhaps a member who (like me!) has time on their hands would like to
> > do the same for their model of Kenwood Transceiver, and in the same
> > format, and I would be happy to host those pages.
> >
> > My Email is.... jhaddleton@ <mailto:jhaddleton@>
> >
> > The web page for the TS 520 is H E R E
> > <http://www.john4music.tv/27.html>
> >
> > Kindest Regards and 73's to all,
> >
> > John
> >
> > ....\
> > ....\
> > ....
> >
> > I was Born with nothing .... 74 years leter, I still have most of it
> > left !
> >
> > Support the Arts ...... Feed a Musician !
> >
> > I am not a 'HAM' ! .... I am a 'Licenced Radio Amateur'.
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

23485. Re: [TS-520_820_530_830] Searching for Info !!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-17 19:51:49 UTC
From: martin
Topic: 23480 Message: 23485

Hi John. A couple of details for your site. The driver tube (12BY7A) in the TS-520 series (and the TS-530S also) is NOT in the high voltage cage. I am not sure about the TS-520SE, (check your manual) but the TS-520 and TS-520S had an optional DS1A unit that allowed operation from 13.8V DC.

The TS-520 allowed operation on the 80M, 40M, 20M, 15M, and 10M HF Amateur bands. The TS-520S add the 160M band. None of the TS-520 series could operate on the so called W.A.R.C. bands (30M, 17M, and 12M).

Many Amateurs consider that the Kenwood hybrid radios (solid state but with tube driver finals) and the early solid state models (such as the TS-120S/V, TS-130S/SE, and TS-430S) to have the best RX audio without any modifications. I get very good (sometimes unsolicited) reports on my TX audio using my TS-130SE, TS-430S, and TS-530S. This includes using the radios with the MC-50, or (with the TS-130SE and TS-430S) the stock Kenwood hand mics. The TS-530S gets good reports with the generic hand mic I have on it. I have used other mics, and have never gotten less than a good report on my TX audio.

I have uploaded an article that I wrote about speakers to the files section. Take a look.

Pretty good job on the web site!

Music Maker wrote:
>
>
> Hello All,
>
> As most who follow my posts know, I am just setting myself up a new
> station, after an absence from Amateur Radio of about 40 years.
>
> Once I had decided to buy a Transciever and the model (I am a pensioner
> on a low income, so 'bang per Buck' was a major consideration!), I
> started scouring the internet to glean as much knowledge about my chosen
> Transciever (The TS 520 SE), and its accessories.
>
> Pictures, Specifications, and articles are in many places on the
> internet, and during my searches, I was also pleased to 'discover' this
> Group!, but I had a little 'brainwave' ..... (and it was painful !!)
> ..HI !
>
> I decided to collate all the information I have gathered so far,
> specific to the TS 520 all in one place for future 'searchers' and would

> like to ask for Members to have a look at what I have done so far, and
> if they know of further articles on Mods, repairs, or information that
> could or should be included, that is not there, would they please point
> me to it?
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> I would also like to hear constructive critique on what I have done so
> far.
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> Perhaps a member who (like me!) has time on their hands would like to
> do the same for their model of Kenwood Transceiver, and in the same
> format, and I would be happy to host those pages.
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> My Email is.... jhaddleton@... <mailto:jhaddleton@...>
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> The web page for the TS 520 is H E R E
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>
> Kindest Regards and 73's to all,
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> John
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> ....\
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> ....
>
> I was Born with nothing ..... 74 years leter, I still have most of it
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> Support the Arts ..... Feed a Musician !
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> I am not a 'HAM' ! ..... I am a 'Licenced Radio Amateur'.
>
>
>
> [Non-text portions of this message have been removed]
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

23486. DG-5 For sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-17 20:42:40 UTC
From: jsloss
Topic: 23486 Message: 23486

DG-5, cosmetically excellent, electrical needs TLC . $60 + USPS. Please reply off-list.

Joe k7mks

[Non-text portions of this message have been removed]

23487. YG-455C Filter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-17 21:18:59 UTC
From: ah6rr1
Topic: 23487 Message: 23487

I have a YG-455C filter I would like to trade for a Good IF Board for a TS-830S Anyone interested? Let me know.
Thanks Roland AH6RR

23488. Re: [TS-520_820_530_830] DG-5 For sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-17 21:41:29 UTC
From: mark helinski
Topic: 23486 Message: 23488

--- On Tue, 11/17/09, jsloss <k7mks@...> wrote:

dear jsloss
do u have pics of unit let me know instested in buying it. mark h

From: jsloss <k7mks@...>
Subject: [TS-520_820_530_830] DG-5 For sale
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, November 17, 2009, 2:42 PM

DG-5, cosmetically excellent, electrical needs TLC . $60 + USPS. Please reply off-list.

Joe k7mks

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23489. DG-5

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-17 22:40:41 UTC
From: jsloss
Topic: 20533 Message: 23489

Mark: Please reply to k7mks@...

Joe

[Non-text portions of this message have been removed]

23490. Generic Hand Mikes for the TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-17 23:34:20 UTC
From: Howard Weinstein
Topic: 23480 Message: 23490

Hello Martin,

I read your comments about using a generic hand mike woth your TS-530s and receiving good audio reports. What type of hand mike do you use??? I was looking at some hand mikes at a truck stop on I-84 in Pennsylvania and they all seemed of good construction, had the proper 4-pin connector, and there were models of several different impedances.

I found mikes with listed impedances of 600 ohms, 1000 ohms, and 5000 ohms. All dynamic and obviously built with the professional trucker in mind. I'd appreciate your comments and suggestions. I currently use an MC-50 on my TS-520 but I need something for "on the road" ops etc.

Tnx es 72/73 de Howie K3HW

--- On Tue, 11/17/09, martin <kb0hae@...> wrote:

<snip>...I get very good (sometimes unsolicited) reports on
my TX audio using my TS-130SE, TS-430S, and TS-530S. This includes
using the radios with the MC-50, or (with the TS-130SE and TS-430S)
the stock Kenwood hand mics. The TS-530S gets good reports with the
generic hand mic I have on it. I have used other mics, and have never
gotten less than a good report on my TX audio...<snip>...

[Non-text portions of this message have been removed]

23491. RE: [TS-520_820_530_830] Generic Hand Mikes for the TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-17 23:38:21 UTC
From: Greg Anders
Topic: 23480 Message: 23491

The 520S requires a "high-impedance mike". A low impedance microphone (200-600) will not have enough output. I would think 5000 ohms might work but no guarantees.
Shure made some hi-impedance hand mikes that provide a very nice quality, but I am not certain they still produce them since all the mobile radio manufacturers switched to low impedance in the late 80's and 1990s.

FYI,

Greg

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Howard Weinstein
Sent: Tuesday, November 17, 2009 3:34 PM
To: TS-520_820_530_830@yahoogroups.com; kb0hae@...
Subject: [TS-520_820_530_830] Generic Hand Mikes for the TS-520

Hello Martin,

I read your comments about using a generic hand mike woth your TS-530s and receiving good audio reports. What type of hand mike do you use??? I was looking at some hand mikes at a truck stop on I-84 in Pennsylvania and they all seemed of good construction, had the proper 4-pin connector, and there were models of several different impedances.

I found mikes with listed impedances of 600 ohms, 1000 ohms, and 5000 ohms. All dynamic and obviously built with the professional trucker in mind. I'd appreciate your comments and suggestions. I currently use an MC-50 on my TS-520 but I need something for "on the road" ops etc.

Tnx es 72/73 de Howie K3HW

--- On Tue, 11/17/09, martin <kb0hae@...<mailto:kb0hae%40mchsi.com>> wrote:

<snip>...I get very good (sometimes unsolicited) reports on
my TX audio using my TS-130SE, TS-430S, and TS-530S. This includes
using the radios with the MC-50, or (with the TS-130SE and TS-430S)
the stock Kenwood hand mics. The TS-530S gets good reports with the
generic hand mic I have on it. I have used other mics, and have never
gotten less than a good report on my TX audio...<snip>...

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[Non-text portions of this message have been removed]

23492. Re: [TS-520_820_530_830] Searching for Info !!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-17 23:41:47 UTC
From: Bill Linn
Topic: 23480 Message: 23492

Music Maker wrote:
>
>
>
> Hello All,
>
> As most who follow my posts know, I am just setting myself up a new
> station, after an absence from Amateur Radio of about 40 years.
>
> Once I had decided to buy a Transciever and the model (I am a pensioner
> on a low income, so 'bang per Buck' was a major consideration!), I
> started scouring the internet to glean as much knowledge about my chosen
> Transciever (The TS 520 SE), and its accessories.
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> Pictures, Specifications, and articles are in many places on the
> internet, and during my searches, I was also pleased to 'discover' this
> Group!, but I had a little 'brainwave' ..... (and it was painful !!)
> ..HI !
>
> I decided to collate all the information I have gathered so far,
> specific to the TS 520 all in one place for future 'searchers' and would
> like to ask for Members to have a look at what I have done so far, and
> if they know of further articles on Mods, repairs, or information that
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> I would also like to hear constructive critique on what I have done so
> far.
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> Perhaps a member who (like me!) has time on their hands would like to
> do the same for their model of Kenwood Transceiver, and in the same
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> My Email is.... jhaddleton@... <mailto:jhaddleton%40msn.com>
> <mailto:jhaddleton@... <mailto:jhaddleton%40msn.com>>
>
> The web page for the TS 520 is H E R E
> <http://www.john4music.tv/27.html <http://www.john4music.tv/27.html>>
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> Kindest Regards and 73's to all,
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> John
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> I was Born with nothing ..... 74 years leter, I still have most of it
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> Support the Arts ..... Feed a Musician !
>
> I am not a 'HAM' ! ..... I am a 'Licenced Radio Amateur'.
>
> [Non-text portions of this message have been removed]
>
>
EXCELLENT! Great Job, I think this is the most organized piece of info
on the net for this grand old radio. Now, can you do the same for the
TS830s? :) (Please)

Bill - W7WEL

23493. Re: [TS-520_820_530_830] Searching for Info !!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-17 23:59:24 UTC
From: John Davidson
Topic: 23480 Message: 23493

As a musician, trained in pitch, tempo and metre, CW should be a snap for you.
set aside all the microfone paraphanalia and jump on the radiotelegraph keys.:D

--- On Tue, 11/17/09, Music Maker <jhaddleton@...> wrote:

From: Music Maker <jhaddleton@...>
Subject: [TS-520_820_530_830] Searching for Info !!
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, November 17, 2009, 8:15 AM

Hello All,

As most who follow my posts know, I am just setting myself up a new
station, after an absence from Amateur Radio of about 40 years.

Once I had decided to buy a Transciever and the model (I am a pensioner
on a low income, so 'bang per Buck' was a major consideration!), I
started scouring the internet to glean as much knowledge about my chosen
Transciever (The TS 520 SE), and its accessories.

Pictures, Specifications, and articles are in many places on the
internet, and during my searches, I was also pleased to 'discover' this
Group!, but I had a little 'brainwave' ..... (and it was painful !!)
..HI !

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specific to the TS 520 all in one place for future 'searchers' and would
like to ask for Members to have a look at what I have done so far, and
if they know of further articles on Mods, repairs, or information that
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me to it?

I would also like to hear constructive critique on what I have done so
far.

Perhaps a member who (like me!) has time on their hands would like to
do the same for their model of Kenwood Transceiver, and in the same
format, and I would be happy to host those pages.

My Email is.... jhaddleton@msn. com <mailto:jhaddleton@msn. com>

The web page for the TS 520 is H E R E
<http://www.john4mus ic.tv/27. html>

Kindest Regards and 73's to all,

John

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I was Born with nothing ..... 74 years leter, I still have most of it
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Support the Arts ..... Feed a Musician !

I am not a 'HAM' ! ..... I am a 'Licenced Radio Amateur'.

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23494. RE: [TS-520_820_530_830] Generic Hand Mikes for the TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-18 00:33:14 UTC
From: Eric Zerkle
Topic: 23480 Message: 23494

Look for an older Turner Super Sidekick or a Plus 3. These mics work very well with the older rigs like the Ts 520. They can be found on Ebay and at most every CB shop around for a reasonable price. Of course, the better cond. of the mic the higher the price. I have a cheap $25.00 truck stop power mic here that i use on my TS 530SP and it works rather well. I have told several ops i have talked to what it is and they cant believe it. :-)
It goes to show you dont need to buy a high dollar mic to sound good on the air.

[Non-text portions of this message have been removed]

23495. RE: [TS-520_820_530_830] Generic Hand Mikes for the TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-18 05:26:19 UTC
From: John Schroeder
Topic: 23480 Message: 23495

Group:

Speaking about mikes... Would a D-104 work with a 520-S? Have a spare D-104, and am working on getting the 520 from a friend... If it will work, what would I have to do? By-pass the amp I would guess is one thing...

TIA ... John ... KB9PBM ...

--- On Tue, 11/17/09, Greg Anders <greg.anders@...> wrote:

From: Greg Anders <greg.anders@synopsys.com>
Subject: RE: [TS-520_820_530_830] Generic Hand Mikes for the TS-520
To: "TS-520_820_530_830@yahoogroups.com" <TS-520_820_530_830@...m>, "kb0hae@..." <kb0hae@...>
Date: Tuesday, November 17, 2009, 5:38 PM

The 520S requires a "high-impedance mike". A low impedance microphone (200-600) will not have enough output. I would think 5000 ohms might work but no guarantees.
Shure made some hi-impedance hand mikes that provide a very nice quality, but I am not certain they still produce them since all the mobile radio manufacturers switched to low impedance in the late 80's and 1990s.

FYI,

Greg

From: TS-520_820_530_ 830@yahoogroups. com [mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of Howard Weinstein
Sent: Tuesday, November 17, 2009 3:34 PM
To: TS-520_820_530_ 830@yahoogroups. com; kb0hae@mchsi. com
Subject: [TS-520_820_ 530_830] Generic Hand Mikes for the TS-520

Hello Martin,

I read your comments about using a generic hand mike woth your TS-530s and receiving good audio reports. What type of hand mike do you use??? I was looking at some hand mikes at a truck stop on I-84 in Pennsylvania and they all seemed of good construction, had the proper 4-pin connector, and there were models of several different impedances.

I found mikes with listed impedances of 600 ohms, 1000 ohms, and 5000 ohms. All dynamic and obviously built with the professional trucker in mind. I'd appreciate your comments and suggestions. I currently use an MC-50 on my TS-520 but I need something for "on the road" ops etc.

Tnx es 72/73 de Howie K3HW

--- On Tue, 11/17/09, martin <kb0hae@mchsi. com<mailto:kb0hae% 40mchsi.com> > wrote:

<snip>...I get very good (sometimes unsolicited) reports on
my TX audio using my TS-130SE, TS-430S, and TS-530S. This includes
using the radios with the MC-50, or (with the TS-130SE and TS-430S)
the stock Kenwood hand mics. The TS-530S gets good reports with the
generic hand mic I have on it. I have used other mics, and have never
gotten less than a good report on my TX audio...<snip> ...

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23496. RE: [TS-520_820_530_830] Generic Hand Mikes for the TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-18 06:03:30 UTC
From: Eric Zerkle
Topic: 23480 Message: 23496

Yes a d 104 will work ok with that 520. Just be sure to turn the audio down. I used to run a d 104 on a Yaesu Ft 101E and had great luck with it.

--- On Wed, 11/18/09, John Schroeder <dmir2001@...> wrote:

From: John Schroeder <dmir2001@...>
Subject: RE: [TS-520_820_530_830] Generic Hand Mikes for the TS-520
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, November 18, 2009, 5:26 AM

Group:

Speaking about mikes... Would a D-104 work with a 520-S? Have a spare D-104, and am working on getting the 520 from a friend... If it will work, what would I have to do? By-pass the amp I would guess is one thing...

TIA ... John ... KB9PBM ...

--- On Tue, 11/17/09, Greg Anders <greg.anders@ synopsys. com> wrote:

From: Greg Anders <greg.anders@ synopsys. com>
Subject: RE: [TS-520_820_ 530_830] Generic Hand Mikes for the TS-520
To: "TS-520_820_530_ 830@yahoogroups. com" <TS-520_820_530_ 830@yahoogroups. com>, "kb0hae@mchsi. com" <kb0hae@mchsi. com>
Date: Tuesday, November 17, 2009, 5:38 PM

The 520S requires a "high-impedance mike". A low impedance microphone (200-600) will not have enough output. I would think 5000 ohms might work but no guarantees.
Shure made some hi-impedance hand mikes that provide a very nice quality, but I am not certain they still produce them since all the mobile radio manufacturers switched to low impedance in the late 80's and 1990s.

FYI,

Greg

From: TS-520_820_530_ 830@yahoogroups. com [mailto:TS-520_ 820_530_ 830@yahoogroups. com] On Behalf Of Howard Weinstein
Sent: Tuesday, November 17, 2009 3:34 PM
To: TS-520_820_530_ 830@yahoogroups. com; kb0hae@mchsi. com
Subject: [TS-520_820_ 530_830] Generic Hand Mikes for the TS-520

Hello Martin,

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I found mikes with listed impedances of 600 ohms, 1000 ohms, and 5000 ohms. All dynamic and obviously built with the professional trucker in mind. I'd appreciate your comments and suggestions. I currently use an MC-50 on my TS-520 but I need something for "on the road" ops etc.

Tnx es 72/73 de Howie K3HW

--- On Tue, 11/17/09, martin <kb0hae@mchsi. com<mailto:kb0hae% 40mchsi.com> > wrote:

<snip>...I get very good (sometimes unsolicited) reports on
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23497. Re: Generic Hand Mikes for the TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-18 06:32:48 UTC
From: N9WB
Topic: 23480 Message: 23497

D-104
Leave the amplifier in. It is a good idea to place a 10K resistor in series with the live audio mike cord lead inside the mike, usually white. This will lower the level and improve isolation.

If your base is a TUG-8, it should work fine. If it is a TUG-9 it will probably work OK but might rairly have RF issues. Soon I will have an article on how to make the TUG-9 work like the TUG-8 and resolve these issues.

Join the astaticmicrophones Yahoo group. http://groups.yahoo.com/group/astaticmicrophones

In the files section find the article under "D-104 article by N9WB".

This article has a lot of D-104 info and a modification to the amplifier to make it sound even better, more full and smoother, yet still bright. Astaticmicrophones is a very low traffic group so it won't clog up your e mail.

Vy 73, Walt N9WB

--- In TS-520_820_530_830@yahoogroups.com, Eric Zerkle <kc9guz@...> wrote:
>
> Yes a d 104 will work ok with that 520. Just be sure to turn the audio down. I used to run a d 104 on a Yaesu Ft 101E and had great luck with it.Â
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>
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>

23498. QSO Days, Times & Frequencies

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-18 13:38:16 UTC
From: Noodle10536
Topic: 23498 Message: 23498

Hi everyone, For those interested in getting together on the air, I posted an inquiry on the Kenwood QSO page. It seems like a fun idea to get a QSO going for us Hybrid fans. Thanks & 73, Peter KC2RBX

From the QSO Group Page:
Hi everyone, I was trying to figure out where all us Kenwood Hybrid owners/enthusiasts could get together for QSO's. I searched past posts and came up with a variety of frequencies. Some are in a range that is close. I have to stay within the General bandplan. Are there any days of the week or times of day and frequency ranges that are currently more common for everyone? The frequencies that I found are listed below.

3.815
3.821
3.822
3.824
3.829
3.830
3.831
3.832
3.833
3.845

7.248
7.260
7.263
7.268
7.290
7.295

14.215
14.245
14.255
14.266

In the NY area I can hear a group that regularly meet on 3.818, so I think we would want to stay away from that area for this group QSO. Thanks & 73, Peter KC2RBX

23499. FS: TS-830s Tech Special

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-18 15:20:53 UTC
From: jmcgsd
Topic: 23499 Message: 23499

Kenwood TS-830s transceiver "Tech Special." Transceiver looks great, works and has good output, but digital display is not moving and occasionally exhibits incorrect info. Switches need cleaning also. There may be other issues, but those are the ones that I found. It is being sold for parts or restoration because of these issues.

I am asking $225 plus $40 UPS Shipping in the Continental U.S. PayPal preferred, otherwise U.S. Postal money order. You can pick it up locally in San Diego to save the shipping.

23500. IF Protection on TS-530S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-18 16:54:44 UTC
From: Yummy Fish
Topic: 23500 Message: 23500

A 1983 service bulletin from Kenwood mentions protecting IF unit transistors Q2 and Q7 from high voltage transients by installing a surge suppressor in the AF unit. The bulletin gives a part number for this suppressor:ERZD03DK331. However, my research using Google failed to find any information about what this part is, and how I might find one today. Anybody know what this thing is? The picture in the service bulletin makes it look as if it is a capacitor, but I don't know what type, or what values it might have.

Thanks,

Erik

N7FYO

[Non-text portions of this message have been removed]

23501. Wow this group is a great resource

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-18 14:38:58 UTC
From: ve3wmb
Topic: 23501 Message: 23501

Hi :

I just joined this group yesterday and have already reaped the benefits of your collective knowledge !

I picked up a very nice TS-820S from a friend in a swap for another rig of a similar vintage and brought it home last night only to find that the rig was non-functional. I looked at the manual and noticed the note that the EXT VFO loopback plug needed to be present if there was no external VFO connected. I was quickly able to search the postings on this group to verify that the symptoms that I was seeing were consistent with the missing plug (no digital display, audio but no signals, no TX). A quick note to my friend, he searched the back seat of his van and presto there was the plug, so I should have the rig on the air later today.

These Kenwood Hybrid rigs are amazing workhorses. I first used a TS-820S back in 1980 at the University of New Brunswick's Club station VE1UNB and it was a great rig.

I am looking forward to getting my TS-820s on the air.

Cheers,

Michael VE3WMB

23502. RE: [TS-520_820_530_830] IF Protection on TS-530S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-18 18:39:06 UTC
From: Greg Anders
Topic: 23500 Message: 23502

Sounds like the part is an M.O.V. "Metal Oxide Varistor". They are regularly used as surge suppressors in power supplies.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Yummy Fish
Sent: Wednesday, November 18, 2009 8:55 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] IF Protection on TS-530S

A 1983 service bulletin from Kenwood mentions protecting IF unit transistors Q2 and Q7 from high voltage transients by installing a surge suppressor in the AF unit. The bulletin gives a part number for this suppressor:ERZD03DK331. However, my research using Google failed to find any information about what this part is, and how I might find one today. Anybody know what this thing is? The picture in the service bulletin makes it look as if it is a capacitor, but I don't know what type, or what values it might have.

Thanks,

Erik

N7FYO

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23503. Output on 160 and 80 thats all !

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-18 20:23:27 UTC
From: Steve
Topic: 23503 Message: 23503

Any ideas! I searched for this today with no luck. No drive anywhere else. Works like a mule there though....Great audio reports and signal reports. 110 watts out both bands. I cleaned the bandswitch wafers with deoxit and lubed the shafts. Brand new neutralized finals and driver! Any help would be appreciated. This is my first post to this group. Thanks All!

Steve.....N3GOV

23504. MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-19 00:04:41 UTC
From: wb4mnk@bellsouth.net
Topic: 23504 Message: 23504

I need to get to the switch that is on the MC-50 mic it self and was wondering if anyone could tell me how to take the switch out. Seems Kenwood has the mic sealed up tight.

73,
Art

23505. Re: [TS-520_820_530_830] Output on 160 and 80 thats all !

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-19 00:11:07 UTC
From: Don Thomas
Topic: 23503 Message: 23505

What radio????

--- On Wed, 11/18/09, Steve <n3gov@...> wrote:

From: Steve <n3gov@...>
Subject: [TS-520_820_530_830] Output on 160 and 80 thats all !
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, November 18, 2009, 2:23 PM

Any ideas! I searched for this today with no luck. No drive anywhere else. Works like a mule there though....Great audio reports and signal reports. 110 watts out both bands. I cleaned the bandswitch wafers with deoxit and lubed the shafts. Brand new neutralized finals and driver! Any help would be appreciated. This is my first post to this group. Thanks All!

Steve....... ...N3GOV

[Non-text portions of this message have been removed]

23506. Re: [TS-520_820_530_830] MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-19 00:33:39 UTC
From: Dave ve3wej
Topic: 23504 Message: 23506

I am not sure why, but the head should unscrew, if I remember, and you will
also need to peel the covering label to get to screws....

----- Original Message -----
From: <wb4mnk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, November 18, 2009 7:04 PM
Subject: [TS-520_820_530_830] MC-50

>I need to get to the switch that is on the MC-50 mic it self and was
>wondering if anyone could tell me how to take the switch out. Seems Kenwood
>has the mic sealed up tight.
>
> 73,
> Art
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

23507. Re: [TS-520_820_530_830] MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-19 00:45:18 UTC
From: Ken Winterling
Topic: 23504 Message: 23507

Art,

The head is glued on to the body. Put on work gloves. Use a heat gun (be careful - not too hot) or a hair dryer and heat the junction of the head and body. Periodically try to unscrew the head.

Ken, WA2LBI

On Wed, Nov 18, 2009 at 19:33, Dave ve3wej <ve3wej@...> wrote:

> I am not sure why, but the head should unscrew, if I remember, and you will
> also need to peel the covering label to get to screws....
>
>
>
> ----- Original Message -----
> From: <wb4mnk@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Wednesday, November 18, 2009 7:04 PM
> Subject: [TS-520_820_530_830] MC-50
>
>
> >I need to get to the switch that is on the MC-50 mic it self and was
> >wondering if anyone could tell me how to take the switch out. Seems
> Kenwood
> >has the mic sealed up tight.
> >
> > 73,
> > Art
> >
>

[Non-text portions of this message have been removed]

23508. MC-60/90

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-19 01:33:44 UTC
From: BILL S
Topic: 23508 Message: 23508

hi there Kenwood Fans,

i was wondering if anybody here has had any experience with using either a MC-60 or a MC-90 with a TS-520s and what were your results, im looking at pairing either one with my ts-520 and was looking for some feedback

thanks Kevin

23509. Re: IF Protection on TS-530S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-19 02:14:45 UTC
From: Yummy Fish
Topic: 23500 Message: 23509

Thanks, makes sense. Any idea what the MOV voltage, etc values might be for this application?

Erik, N7FYO

> Sounds like the part is an M.O.V. "Metal Oxide Varistor". They are regularly used as surge suppressors in power supplies.
>
> Greg
> KG6YV
>

23510. Re: Output on 160 and 80 thats all !

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-19 01:17:07 UTC
From: Steve
Topic: 23503 Message: 23510

Sorry TS-830S

--- In TS-520_820_530_830@yahoogroups.com, Don Thomas <satranger1@...> wrote:
>
> What radio????
>
> --- On Wed, 11/18/09, Steve <n3gov@...> wrote:
>
>
> From: Steve <n3gov@...>
> Subject: [TS-520_820_530_830] Output on 160 and 80 thats all !
> To: TS-520_820_530_830@...m
> Date: Wednesday, November 18, 2009, 2:23 PM
>
>
> Â
>
>
>
> Any ideas! I searched for this today with no luck. No drive anywhere else. Works like a mule there though....Great audio reports and signal reports. 110 watts out both bands. I cleaned the bandswitch wafers with deoxit and lubed the shafts. Brand new neutralized finals and driver! Any help would be appreciated. This is my first post to this group. Thanks All!
>
> Steve....... ...N3GOV
>
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>
> [Non-text portions of this message have been removed]
>

23511. Re: [TS-520_820_530_830] Output on 160 and 80 thats all !

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-18 23:46:21 UTC
From: richard
Topic: 23503 Message: 23511

On Wed, 18 Nov 2009 20:23:27 -0000
"Steve" <n3gov@...> wrote:

> Any ideas! I searched for this today with no luck. No drive anywhere
> else. Works like a mule there though....Great audio reports and
> signal reports. 110 watts out both bands. I cleaned the bandswitch
> wafers with deoxit and lubed the shafts. Brand new neutralized finals
> and driver! Any help would be appreciated. This is my first post to
> this group. Thanks All!
>
> Steve.....N3GOV
>
First Have a look at the local oscillator frequencies and level. Then
have another look at the switch wafers.

--
Best wishes

Richard Bown

##
Registered Linux User 36561
OS: Mandriva 2010.0 Powerpack on an AMD Dual Athlon 64 +4400: 8 GB RAM
DDR2 Ham Call: G8JVM , QRA IO82SP, Interests Microwave 1.3 GHz,2.3 GHz
& 5.7GHz & 10 GHz
##

23512. RE: [TS-520_820_530_830] Re: IF Protection on TS-530S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-19 14:52:01 UTC
From: Greg Anders
Topic: 23500 Message: 23512

I am not familiar with the device chosen for the IF amps in the 530. What I would do is look up the device and see what it can handle as a max. voltage swing on the gate. Its probably in the 1-5V range. Then select an MOV to trigger at the top. It will probably be a small-ish MOV. They are made in ranges to cover everything up to hi-voltage....

FYI,

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Yummy Fish
Sent: Wednesday, November 18, 2009 6:15 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: IF Protection on TS-530S

Thanks, makes sense. Any idea what the MOV voltage, etc values might be for this application?

Erik, N7FYO

> Sounds like the part is an M.O.V. "Metal Oxide Varistor". They are regularly used as surge suppressors in power supplies.
>
> Greg
> KG6YV
>

[Non-text portions of this message have been removed]

23513. RE: [TS-520_820_530_830] MC-60/90

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-19 14:54:02 UTC
From: Greg Anders
Topic: 23508 Message: 23513

Hi Kevin,

I use an MC-60A with the amplifier (OFF) on my 520SE. Works great, sounds very good from reports I get. With the MC-60 I find that the mic. Gain is set around 40% with the processor off and a bit less with it on.

FYI,

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of BILL S
Sent: Wednesday, November 18, 2009 5:34 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] MC-60/90

hi there Kenwood Fans,

i was wondering if anybody here has had any experience with using either a MC-60 or a MC-90 with a TS-520s and what were your results, im looking at pairing either one with my ts-520 and was looking for some feedback

thanks Kevin

[Non-text portions of this message have been removed]

23514. Re: Output on 160 and 80 thats all !

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-19 15:23:38 UTC
From: w5rkl
Topic: 23503 Message: 23514

Unfortunately, the final and driver tubes have nothing to do with the problem you are experiencing.

Since 160 and 80 meters are working, the problem is NOT the VFO.

The SG switch is not the source of the problem either. The SG switch's sole purpose is to control the final amplifier tube's "screen" voltage, nothing else.

Also, there is no jumper required on the rear VFO 8 pin DIN socket like on the 520 and 820. A micro switch embedded in the 830's rear remote VFO 8 pin din socket takes care of the jumper requirement when either the VFO-230 or VFO-240 is not plugged into the rear VFO socket of the 830.

Since you have cleaned the band switch wafers, at the moment I do not suspect the band switch wafers.

The 830 does not have or use individual local oscillators like the 520 and the 820 have. The 820 has individual heterodyne oscillator crystals in it's PD UNIT (part of the 820's PLL UNIT) while the 520 has the individual band switch selectable heterodyne oscillator crystals on the RF UNIT (mounted to the RF UNIT's band switch wafer).

The 830, on the other hand, uses a standard reference frequency oscillator (10Mhz) signal to sync with the VCO and VFO signal to process receive and transmit signals (see service manual starting on page 3).

It's possible the programmable divider may have failed on the PLL Unit board. A logic probe used to compare the actual 830's divider binary output levels to the service manual will determine if the divider has failed (see table 6 on page 4).

It is also possible that one or more of the PLL UNIT's plugs are not making good contact. Removing and cleaning the plugs and pins with contact cleaner and canned air will determine if this is the problem.

Also, check all grounds and PC board mounting hardware/screws, ensure they are tight. Do not use excessive force when tightening the mounting screws as the threads could be stripped.

I recommend downloading the 830 service manual and high resolution schematic from N6WK's website.

www.n6wk.com/kenwood/

Scroll down the page and you will see both, the 830's service manual and the 830's high resolution schematic. These 2 documents are highly recommended when performing any maintenance on the 830.

Review the service manual, especially the circuit description section starting on page 3, before proceeding with any troubleshooting and diagnostic repair.

If your troubleshooting and repair skills are lacking, may I recommend locating a local ham, through a ham club or local 2 meter repeater, that has the troubleshooting and repair skills to help you diagnose and repair your 830.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, richard <richard.bown@...> wrote:
>
> On Wed, 18 Nov 2009 20:23:27 -0000
> "Steve" <n3gov@...> wrote:
>
> > Any ideas! I searched for this today with no luck. No drive anywhere
> > else. Works like a mule there though....Great audio reports and
> > signal reports. 110 watts out both bands. I cleaned the bandswitch
> > wafers with deoxit and lubed the shafts. Brand new neutralized finals
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> > this group. Thanks All!
> >
> > Steve.....N3GOV
> >
> First Have a look at the local oscillator frequencies and level. Then
> have another look at the switch wafers.
>
> --
> Best wishes
>
> Richard Bown
>
> ##
> Registered Linux User 36561
> OS: Mandriva 2010.0 Powerpack on an AMD Dual Athlon 64 +4400: 8 GB RAM
> DDR2 Ham Call: G8JVM , QRA IO82SP, Interests Microwave 1.3 GHz,2.3 GHz
> & 5.7GHz & 10 GHz
> ##
>

23515. Re: TS520S TUN position not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-19 17:53:17 UTC
From: jaiden0
Topic: 23388 Message: 23515

In looking at the schematic I've noticed that each of these frequencies is exactly 10 mhz under that of each fixed crystal. X1 at 10.695 becomes 0.695 for example. I'm guessing this is a problem with the IF unit, but I don't understand why it would be different in TUN vs CW (or SSB) mode, since it is only broken in TUN.

Any ideas?

--- In TS-520_820_530_830@yahoogroups.com, "jaiden0" <jaiden0@...> wrote:
>
> Greetings all. I am a new ham and even newer to HF, and my HF rig is an inherited TS-520S that sat on a shelf for 25 years or so. It does seem to *mostly* work, but I have had some trouble with it. For this post, I'll focus on one issue that is clearly definable and easy to reproduce.
>
> The TUN position of my TS-520S doesn't seem to work. The frequency displayed on the DG-5 is fixed for each band, and the VFO does nothing. The frequencies displayed for each band are:
>
> 1.8 -- 0.694.8
> 3.5 -- 2.396.5
> 7 -- 5.895.1
> 14 -- 12.895.2
> 21 -- 19.895.3
> 28 -- 26.894.8
> 28.5 -- 27.395.5
> 29.1 -- 27.995.3
>
> Clearly something is wrong with the TUN position, since the other positions seem to work OK. I have made contacts on 20 and 40 meters, though I still have a LOT to learn about this old radio. I am not afraid of a soldering iron, but I'm not going to go poking around unless I know what I'm looking for.
>
> Thanks in advance for any advice you can give.
>

23516. Re: [TS-520_820_530_830] Re: IF Protection on TS-530S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-19 19:49:53 UTC
From: Steve
Topic: 23500 Message: 23516

This mod can be found at http://www.mods.dk/view.php?ArticleId=743

Steve W4IMF

----- Original Message -----
From: Greg Anders
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, November 19, 2009 9:52 AM
Subject: RE: [TS-520_820_530_830] Re: IF Protection on TS-530S

I am not familiar with the device chosen for the IF amps in the 530. What I would do is look up the device and see what it can handle as a max. voltage swing on the gate. Its probably in the 1-5V range. Then select an MOV to trigger at the top. It will probably be a small-ish MOV. They are made in ranges to cover everything up to hi-voltage....

FYI,

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Yummy Fish
Sent: Wednesday, November 18, 2009 6:15 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: IF Protection on TS-530S

Thanks, makes sense. Any idea what the MOV voltage, etc values might be for this application?

Erik, N7FYO

> Sounds like the part is an M.O.V. "Metal Oxide Varistor". They are regularly used as surge suppressors in power supplies.
>
> Greg
> KG6YV
>

[Non-text portions of this message have been removed]

Certified Virus Free
Checked by AVG - www.avg.com
Version: 9.0.707 / Virus Database: 270.14.73/2513 - Release Date: 11/19/09 02:51:00

[Non-text portions of this message have been removed]

23517. TS-830 Cathode Resistors

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-19 20:38:23 UTC
From: f_canuso
Topic: 23517 Message: 23517

My TS-830 has been experiencing cathode resistor failures while transmitting. Thinking that it might be a bad final tube, I installed new resistors, changed both final tubes (using GE 6146B) and neutralized them. I put the radio back on the air and it worked for a short while before the cathode resistors failed again. Just prior to the resistors failing, I noticed the outpower rising while transmitting.

If anyone can offer a suggestion regarding where to go from here with troubleshooting this problem, it would be much appreciated.

73,
Tony (N2ATB)

23518. Re: TS520S TUN position not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-19 21:18:45 UTC
From: w5rkl
Topic: 23388 Message: 23518

Remove the DG-5 from the 520S, including all cables between the 520 and the DG-5.

Set the DG-5 front panel slide switch to "COUNTER".

Connect the DG-5's "COUNT IN" rear socket to each of the following sockets on the rear panel of the 520 and note the frequencies displayed.

HET - Change bandswitch to each position should results in each of the RF unit Heterodyne oscillator crystal frequencies being displayed. The frequencies should remain stable until the band switch is set to another position, whether in transmit or receive and regardless of the MODE switch setting. See the RF UNIT of the crystal frequencies.

CAR - Set MODE switch to each position. The CAR UNIT crystal frequencies should display on the DG-5 as you change the MODE switch setting. The frequencies will change "slightly" between transmit and receive and when changing MODE settings. See the CAR UNIT for the crystal frequencies.

VFO - Setting the VFO dial to zero, the DG-5 should display 4.999Mhz. Rotating the VFO dial toward the upper end of the dial, the frequency should increase smoothly and continue increasing to 5.500Mhz when the dial reaches "500". The frequency should NOT change regardless of the bandswitch and MODE switch settings. The frequency should disappear if the jumper between pins 8 and 9 on the rear 9 pin VFO socket is removed. The frequencies should return when the jumper between pins 8 and 9 is reinstalled.

This verifies the stability and functionality of all 3 oscillators in the 520. There are no other RF oscillators in the 520.

I haven't reviewed all of your post but from what I have read, I seriously doubt the IF UNIT itself has anything to do with your problem.

The one thing that is quite clear and that is, the 520 is working properly, at least from your statements, in ALL modes except "TUNE". That means you can tune the 520 up in CW mode. If this is done there will be no ALC indication in CW mode regardless of the CAR control setting. You will have to peak the "IP" meter. Therefore, there can't be much wrong with the 520 in TUNE mode, possibly a bad connection on the MODE switch or a resistor that has changed values on the HV UNIT, or a broken wire on the MODE switch, relay terminal, or a wire wrap that is affecting a voltage applied to a circuit that affects the RF output of one or more of the RF oscillators to the DG-5 which also affects the 520 in TUNE mode.

I recommend reviewing the 520 schematic and tracing the MODE switch wiring.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "jaiden0" <jaiden0@...> wrote:
>
> In looking at the schematic I've noticed that each of these frequencies is exactly 10 mhz under that of each fixed crystal. X1 at 10.695 becomes 0.695 for example. I'm guessing this

is a problem with the IF unit, but I don't understand why it would be different in TUN vs CW (or SSB) mode, since it is only broken in TUN.
>
> Any ideas?
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "jaiden0" <jaiden0@> wrote:
> >
> > Greetings all. I am a new ham and even newer to HF, and my HF rig is an inherited TS-520S that sat on a shelf for 25 years or so. It does seem to *mostly* work, but I have had some trouble with it. For this post, I'll focus on one issue that is clearly definable and easy to reproduce.
> >
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> > 28 -- 26.894.8
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> >
> > Clearly something is wrong with the TUN position, since the other positions seem to work OK. I have made contacts on 20 and 40 meters, though I still have a LOT to learn about this old radio. I am not afraid of a soldering iron, but I'm not going to go poking around unless I know what I'm looking for.
> >
> > Thanks in advance for any advice you can give.
> >
>

23519. Re: TS-830 Cathode Resistors

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-19 21:34:51 UTC
From: w5rkl
Topic: 23517 Message: 23519

When you say the "RF increases" how are you determining the RF is increasing? A watt meter or the 830's IP meter?

If it's the 830's IP meter that is increasing and not due to audio from the microphone but without no audio in sideband and the CAR control set to minimum in CW or TUNE, then the meter is not displaying an increase in RF output but rather an increase in plate current that may be caused by a failing bias supply (-C on the Rectifier Unit).

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "f_canuso" <f_canuso@...> wrote:
>
> My TS-830 has been experiencing cathode resistor failures while transmitting. Thinking that it might be a bad final tube, I installed new resistors, changed both final tubes (using GE 6146B) and neutralized them. I put the radio back on the air and it worked for a short while before the cathode resistors failed again. Just prior to the resistors failing, I noticed the outpower rising while transmitting.
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> 73,
> Tony (N2ATB)
>

23520. Re: TS-830 Cathode Resistors

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-19 22:21:17 UTC
From: f_canuso
Topic: 23517 Message: 23520

Mike,

Thanks for the reply. The output was being measured on an in line peak reading watt meter. I was transmitting in CW mode on 40 meters into a resonant antenna and noticed the output power rising from about 80 watts to around 110 watts right before the resistors failed. I did not notice if the plate current was also increasing.

Tony (N2ATB)

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> When you say the "RF increases" how are you determining the RF is increasing? A watt meter or the 830's IP meter?
>
> If it's the 830's IP meter that is increasing and not due to audio from the microphone but without no audio in sideband and the CAR control set to minimum in CW or TUNE, then the meter is not displaying an increase in RF output but rather an increase in plate current that may be caused by a failing bias supply (-C on the Rectifier Unit).
>
>
>
>
> 73s
> Mike W5RKL
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "f_canuso" <f_canuso@> wrote:
> >
> > My TS-830 has been experiencing cathode resistor failures while transmitting. Thinking that it might be a bad final tube, I installed new resistors, changed both final tubes (using GE 6146B) and neutralized them. I put the radio back on the air and it worked for a short while before the cathode resistors failed again. Just prior to the resistors failing, I noticed the outpower rising while transmitting.
> >
> > If anyone can offer a suggestion regarding where to go from here with troubleshooting this problem, it would be much appreciated.
> >
> > 73,
> > Tony (N2ATB)
> >
>

23521. Re: [TS-520_820_530_830] QSO Days, Times & Frequencies

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-20 02:32:14 UTC
From: John Davidson
Topic: 23498 Message: 23521

All these frequencies are very high in the band for me ! I operate around 3550 on 80M.
I have been told the note from my TS 520 sounds better than from my TS440s when comparing them on the air.

73....JD
--- On Wed, 11/18/09, Noodle10536 <pureenduro@...> wrote:

From: Noodle10536 <pureenduro@...>
Subject: [TS-520_820_530_830] QSO Days, Times & Frequencies
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, November 18, 2009, 8:38 AM

Hi everyone, For those interested in getting together on the air, I posted an inquiry on the Kenwood QSO page. It seems like a fun idea to get a QSO going for us Hybrid fans. Thanks & 73, Peter KC2RBX

up with a variety of frequencies. Some are in a range that is close. I have to stay within the General bandplan. Are there any days of the week or times of day and frequency ranges that are currently more common for everyone? The frequencies that I found are listed below.

3.815
3.821
3.822
3.824
3.829
3.830
3.831
3.832
3.833
3.845

7.248
7.260
7.263
7.268
7.290
7.295

14.215
14.245
14.255
14.266

In the NY area I can hear a group that regularly meet on 3.818, so I think we would want to stay away from that area for this group QSO. Thanks & 73, Peter KC2RBX

[Non-text portions of this message have been removed]

23522. Re: Output on 160 and 80 thats all !

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-20 03:28:23 UTC
From: Steve
Topic: 23503 Message: 23522

Thank you very much. The plugs on the PLL did the job. Full output all bands. I love these YAHOOOOOOOOO GROUPS!!!!! Thanks All!.....N3GOV

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Unfortunately, the final and driver tubes have nothing to do with the problem you are experiencing.
>
> Since 160 and 80 meters are working, the problem is NOT the VFO.
>
> The SG switch is not the source of the problem either. The SG switch's sole purpose is to control the final amplifier tube's "screen" voltage, nothing else.
>
> Also, there is no jumper required on the rear VFO 8 pin DIN socket like on the 520 and 820. A micro switch embedded in the 830's rear remote VFO 8 pin din socket takes care of the jumper requirement when either the VFO-230 or VFO-240 is not plugged into the rear VFO socket of the 830.
>
> Since you have cleaned the band switch wafers, at the moment I do not suspect the band switch wafers.
>
> The 830 does not have or use individual local oscillators like the 520 and the 820 have. The 820 has individual heterodyne oscillator crystals in it's PD UNIT (part of the 820's PLL UNIT) while the 520 has the individual band switch selectable heterodyne oscillator crystals on the RF UNIT (mounted to the RF UNIT's band switch wafer).
>
> The 830, on the other hand, uses a standard reference frequency oscillator (10Mhz) signal to sync with the VCO and VFO signal to process receive and transmit signals (see service manual starting on page 3).
>
> It's possible the programmable divider may have failed on the PLL Unit board. A logic probe used to compare the actual 830's divider binary output levels to the service manual will determine if the divider has failed (see table 6 on page 4).
>
> It is also possible that one or more of the PLL UNIT's plugs are not making good contact. Removing and cleaning the plugs and pins with contact cleaner and canned air will determine if this is the problem.
>
> Also, check all grounds and PC board mounting hardware/screws, ensure they are tight. Do not use excessive force when tightening the mounting screws as the threads could be stripped.
>
> I recommend downloading the 830 service manual and high resolution schematic from N6WK's website.
>

> www.n6wk.com/kenwood/
>
> Scroll down the page and you will see both, the 830's service manual and the 830's high resolution schematic. These 2 documents are highly recommended when performing any maintenance on the 830.
>
> Review the service manual, especially the circuit description section starting on page 3, before proceeding with any troubleshooting and diagnostic repair.
>
> If your troubleshooting and repair skills are lacking, may I recommend locating a local ham, through a ham club or local 2 meter repeater, that has the troubleshooting and repair skills to help you diagnose and repair your 830.
>
> 73s
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com, richard <richard.bown@> wrote:
> >
> > On Wed, 18 Nov 2009 20:23:27 -0000
> > "Steve" <n3gov@> wrote:
> >
> > > Any ideas! I searched for this today with no luck. No drive anywhere
> > > else. Works like a mule there though....Great audio reports and
> > > signal reports. 110 watts out both bands. I cleaned the bandswitch
> > > wafers with deoxit and lubed the shafts. Brand new neutralized finals
> > > and driver! Any help would be appreciated. This is my first post to
> > > this group. Thanks All!
> > >
> > > Steve.....N3GOV
> > >
> > First Have a look at the local oscillator frequencies and level. Then
> > have another look at the switch wafers.
> >
> > --
> > Best wishes
> >
> > Richard Bown
> >
> > ##
> > Registered Linux User 36561
> > OS: Mandriva 2010.0 Powerpack on an AMD Dual Athlon 64 +4400: 8 GB RAM
> > DDR2 Ham Call: G8JVM , QRA IO82SP, Interests Microwave 1.3 GHz,2.3 GHz
> > & 5.7GHz & 10 GHz
> > ##
> >
>

23523. Re: QSO Days, Times & Frequencies

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-20 03:45:20 UTC
From: Steve
Topic: 23498 Message: 23523

I'm good anywhere in the evenings.

N3GOV..... Steve

--- In TS-520_820_530_830@yahoogroups.com, John Davidson <k8jd@...> wrote:
>
>
> All these frequencies are very high in the band for me ! I operate around 3550 on 80M.
> I have been told the note from my TS 520 sounds better than from my TS440s when comparing them on the air.
> Â
> 73....JD
> --- On Wed, 11/18/09, Noodle10536 <pureenduro@...> wrote:
>
>
> From: Noodle10536 <pureenduro@...>
> Subject: [TS-520_820_530_830] QSO Days, Times & Frequencies
> To: TS-520_820_530_830@yahoogroups.com
> Date: Wednesday, November 18, 2009, 8:38 AM
>
>
> Â
>
>
>
> Hi everyone, For those interested in getting together on the air, I posted an inquiry on the Kenwood QSO page. It seems like a fun idea to get a QSO going for us Hybrid fans. Thanks & 73, Peter KC2RBX
>
> up with a variety of frequencies. Some are in a range that is close. I have to
> stay within the General bandplan. Are there any days of the week or times of
> day and frequency ranges that are currently more common for everyone? The
> frequencies that I found are listed below.
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>
> In the NY area I can hear a group that regularly meet on 3.818, so I think we
> would want to stay away from that area for this group QSO. Thanks & 73, Peter
> KC2RBX
>
>
>
>
>
>
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

23524. Re: [TS-520_820_530_830] Re: QSO Days, Times & Frequencies

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-20 04:49:55 UTC
From: Walter Breining
Topic: 23498 Message: 23524

Ellen AF9J and myself have a group called Kenwood QSO. It is for posting skeds and announcing where you are on. Please join.

http://groups.yahoo.com/group/KenwoodQSO/

Vy 73, Walt N9WB

From: Steve <n3gov@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thu, November 19, 2009 10:45:20 PM
Subject: [TS-520_820_530_830] Re: QSO Days, Times & Frequencies

I'm good anywhere in the evenings.

N3GOV..... .... Steve

--- In TS-520_820_530_ 830@yahoogroups. com, John Davidson <k8jd@...> wrote:
>
>
> All these frequencies are very high in the band for me ! I operate around 3550 on 80M.
> I have been told the note from my TS 520 sounds better than from my TS440s when comparing them on the air.
> Â
> 73....JD
> --- On Wed, 11/18/09, Noodle10536 <pureenduro@ ...> wrote:
>
>
> From: Noodle10536 <pureenduro@ ...>
> Subject: [TS-520_820_ 530_830] QSO Days, Times & Frequencies
> To: TS-520_820_530_ 830@yahoogroups. com
> Date: Wednesday, November 18, 2009, 8:38 AM
>
>
> Â
>
>
>
> Hi everyone, For those interested in getting together on the air, I posted an inquiry on the Kenwood QSO page. It seems like a fun idea to get a QSO going for us Hybrid fans. Thanks & 73, Peter KC2RBX
>
> up with a variety of frequencies. Some are in a range that is close. I have to
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> would want to stay away from that area for this group QSO. Thanks & 73, Peter
> KC2RBX
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> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

23525. TS-570 versions

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-20 11:10:07 UTC
From: k4jdp
Topic: 23525 Message: 23525

Why were these discontinued so quickly? They were only marketed a couple of years. Was it receiver problems that I've read about or something else?

73's de K4JDP-John

23526. Re: TS-570 versions

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-20 14:57:44 UTC
From: w5rkl
Topic: 23525 Message: 23526

What receiver problems are you talking about John?

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "k4jdp" <k4jdp@...> wrote:
>
> Why were these discontinued so quickly? They were only marketed a couple of years. Was it receiver problems that I've read about or something else?
>
> 73's de K4JDP-John
>

23527. Re: TS-830 Cathode Resistors

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-20 14:56:51 UTC
From: w5rkl
Topic: 23517 Message: 23527

Tony,

It appears, based on your initial comments and recent response, the problem may be in the 830's Rectifier Unit -C bias supply, the AF UNIT's bias/ALC circuit which includes the bias pot, or both.

A very dirty bias pot can affect the stability of the bias voltage applied to the final tubes in transmit and/or receive.

Try thoroughly cleaning the bias pot then reset the final idling current to 60ma and monitor the IP current during normal use.

If the IP meter and the external watt meter, during normal operation, continues to show an increase in output for no apparent reason to the point where the cathode resistors will destruct, then it's quite possible the problem is in the Rectifier Unit's -C bias supply, possibly one or both 33ufd 160VDC filter capacitors are failing.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "f_canuso" <f_canuso@...> wrote:
>
> Mike,
>
> Thanks for the reply. The output was being measured on an in line peak reading watt meter. I was transmitting in CW mode on 40 meters into a resonant antenna and noticed the output power rising from about 80 watts to around 110 watts right before the resistors failed. I did not notice if the plate current was also increasing.
>
> Tony (N2ATB)
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > When you say the "RF increases" how are you determining the RF is increasing? A watt meter or the 830's IP meter?
> >
> > If it's the 830's IP meter that is increasing and not due to audio from the microphone but without no audio in sideband and the CAR control set to minimum in CW or TUNE, then the meter is not displaying an increase in RF output but rather an increase in plate current that may be caused by a failing bias supply (-C on the Rectifier Unit).
> >
> >
> >
> >
> > 73s
> > Mike W5RKL

> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "f_canuso" <f_canuso@> wrote:
> > >
> > > My TS-830 has been experiencing cathode resistor failures while transmitting. Thinking that it might be a bad final tube, I installed new resistors, changed both final tubes (using GE 6146B) and neutralized them. I put the radio back on the air and it worked for a short while before the cathode resistors failed again. Just prior to the resistors failing, I noticed the outpower rising while transmitting.
> > >
> > > If anyone can offer a suggestion regarding where to go from here with troubleshooting this problem, it would be much appreciated.
> > >
> > > 73,
> > > Tony (N2ATB)
> > >
> >
>

23528. Re: [TS-520_820_530_830] TS-570 versions

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-20 18:01:32 UTC
From: pmarkavage
Topic: 23525 Message: 23528

If I remember correctly, it had something to do with stricter European compliance rules for a number of their components used in the TS-570 series. It was, I guess, a lot easier to discontinue the series then try to design to the newer/stricter rules.

Pete, wa2cwa

On Fri, 20 Nov 2009 11:10:07 -0000 "k4jdp" <k4jdp@...> writes:
> Why were these discontinued so quickly? They were only marketed a
> couple of years. Was it receiver problems that I've read about or
> something else?
>
> 73's de K4JDP-John

23529. Re: TS-830 Cathode Resistors

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-20 18:06:58 UTC
From: WimP
Topic: 23517 Message: 23529

Tony,

Could be the coupling condenser between driver and finals, a common problem in other sets. If this condenser is leaky, the bias of the finals are going more positive and the tubes draw more current.

It is C1 on the final board, 100pf/1Kv, to be changed with a higher voltage type. I used ceramic types with 5Kv, they work good for several years now.

73, Wim PA0PGA

--- In TS-520_820_530_830@yahoogroups.com, "f_canuso" <f_canuso@...> wrote:
>
> My TS-830 has been experiencing cathode resistor failures while transmitting. Thinking that it might be a bad final tube, I installed new resistors, changed both final tubes (using GE 6146B) and neutralized them. I put the radio back on the air and it worked for a short while before the cathode resistors failed again. Just prior to the resistors failing, I noticed the outpower rising while transmitting.
>
> If anyone can offer a suggestion regarding where to go from here with troubleshooting this problem, it would be much appreciated.
>
> 73,
> Tony (N2ATB)
>

23530. Re: [TS-520_820_530_830] TS-570 versions

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-20 19:15:12 UTC
From: David Rogers
Topic: 23525 Message: 23530

My memory is that the TS-570 was produced from 1997 to approximately 2006, a period of 9 years -- it was around for a lot more than a "couple" of years. It was an excellent rig (I owned two of them -- DG and SG) and they simply fell to advancing technology when the TS-480 was introduced.

David, WA7ZYQ

----- Original Message -----
From: pmarkavage
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, November 20, 2009 10:01 AM
Subject: Re: [TS-520_820_530_830] TS-570 versions

If I remember correctly, it had something to do with stricter European compliance rules for a number of their components used in the TS-570 series. It was, I guess, a lot easier to discontinue the series then try to design to the newer/stricter rules.

Pete, wa2cwa

On Fri, 20 Nov 2009 11:10:07 -0000 "k4jdp" <k4jdp@...> writes:
> Why were these discontinued so quickly? They were only marketed a
> couple of years. Was it receiver problems that I've read about or
> something else?
>
> 73's de K4JDP-John

[Non-text portions of this message have been removed]

23531. TS-830 No TX at all

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-20 20:33:06 UTC
From: ah6rr1
Topic: 23531 Message: 23531

Hello all I am looking at a TS-830 for a local handicap Ham. The radio has RX but no TX at all no ALC indication nada zip. I checked the voltages on the driver and finals and they are as follows
Driver
Pin 1 RX 0V TX 0V
Pins 2&3 RX -47.3 TX .4
pins 4-6 RX 0 TX 0
Pin 7 RX 247 TX 239
Pin 8 RX 334 TX 324
Pin 9 0

Finals V1 & V2
Pins 1,4,6 RX 0 TX .316
Pin 2 RX 12.7AC TX 12.3AC V2 RX 6.34AC TX 6.31AC
Pin 3 RX 256 TX 241
Pin 5 RX -102 TX -57
Plate Voltage is RX 955 TX 955
The Relay on the AF board is working.
I followed the TX signal to the diver tube then to the finals and I have signal all the way to the finals. But I get no ALC indication at all.
TX set for CW 14.200 and I get a 14.200 signal all the way to pin 5 on the final tubes the scope shows a good signal also. I did check the Grid resistors in circuit and they all read 5.9 ohms
Any hints on where and what to look at next?

Thanks
Roland AH6RR

23533. For Sale: Kenwood TS-830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-20 21:00:09 UTC
From: ko6ww
Topic: 23533 Message: 23533

Kenwood TS-830 Transceiver.
Radio work great 130 watts on CW. No band selector issues.
Radio comes with original RCA 9146A Tubes.
SSB Filter. No CW filter.
No microphone. Radio only.

Radio appeared to be modified and later modification removed from previous owner since it has a patched hole.

I am selling it because I have a second one and I can use the cash right now.

$375.00 Firm. I can ship, but don't know how much it would cost to ship.
I am located in San Francisco Bay Area (San Jose).

23534. Re: [TS-520_820_530_830] TS-830 No TX at all

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-20 21:52:38 UTC
From: n6wk@n6wk.com
Topic: 23531 Message: 23534

Roland,
What is the Idle current on the finals in SSB?

Gordon

ah6rr1 wrote:
>
>
> Hello all I am looking at a TS-830 for a local handicap Ham. The radio
> has RX but no TX at all no ALC indication nada zip. I checked the
> voltages on the driver and finals and they are as follows
> Driver
> Pin 1 RX 0V TX 0V
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> Pin 7 RX 247 TX 239
> Pin 8 RX 334 TX 324
> Pin 9 0
>
> Finals V1 & V2
> Pins 1,4,6 RX 0 TX .316
> Pin 2 RX 12.7AC TX 12.3AC V2 RX 6.34AC TX 6.31AC
> Pin 3 RX 256 TX 241
> Pin 5 RX -102 TX -57
> Plate Voltage is RX 955 TX 955
> The Relay on the AF board is working.
> I followed the TX signal to the diver tube then to the finals and I
> have signal all the way to the finals. But I get no ALC indication at
> all.
> TX set for CW 14.200 and I get a 14.200 signal all the way to pin 5 on
> the final tubes the scope shows a good signal also. I did check the
> Grid resistors in circuit and they all read 5.9 ohms
> Any hints on where and what to look at next?
>
> Thanks
> Roland AH6RR
>
>

23535. Re: TS-830 No TX at all

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-20 22:01:30 UTC
From: w5rkl
Topic: 23531 Message: 23535

Roland,

You didn't state whether the final amplifier's IP meter setting, in USB or LSB, indicates 60ma idling current with no audio applied to the microphone, in transmit.

If the IP meter indicates "zero" then the final amplifier bias is not set. Turn to page 17 in the operator's manual and perform the bias setting.

If you do not have the 830 operator's manual you can download it free at the following website:

www.n6wk.com/kenwood/

CW mode does not use ALC to control the output level, the CAR control controls the output level. Therefore, placing the meter switch to ALC in CW transmit, regardless of the CAR control setting, there will be zero ALC indication on the meter.

The meter will indicate ALC in TUNE mode but the ALC indication is for tuning purposes only. ALC in TUNE mode does not control the RF output. The ALC meter is used in TUNE mode for tuning purposes only, peaking the drive to the final tubes, same as the old transmitters that peaked the "Grid" drive.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "ah6rr1" <ah6rr@...> wrote:
>
> Hello all I am looking at a TS-830 for a local handicap Ham. The radio has RX but no TX at all no ALC indication nada zip. I checked the voltages on the driver and finals and they are as follows
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> Finals V1 & V2
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> TX set for CW 14.200 and I get a 14.200 signal all the way to pin 5 on the final tubes the scope shows a good signal also. I did check the Grid resistors in circuit and they all read 5.9 ohms
> Any hints on where and what to look at next?
>
> Thanks
> Roland AH6RR
>

23536. Re: TS-830 No TX at all

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-20 22:06:36 UTC
From: w5rkl
Topic: 23531 Message: 23536

Sorry bout that Gordon. We had the same thought at the same time.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, n6wk@... wrote:
>
>
> Roland,
> What is the Idle current on the finals in SSB?
>
> Gordon
>
> ah6rr1 wrote:
> >
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> > Hello all I am looking at a TS-830 for a local handicap Ham. The radio
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> > Grid resistors in circuit and they all read 5.9 ohms
> > Any hints on where and what to look at next?
> >
> > Thanks
> > Roland AH6RR
> >

> >
>

23537. Re: [TS-520_820_530_830] Re: TS-830 No TX at all

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-20 23:39:01 UTC
From: n6wk@n6wk.com
Topic: 23531 Message: 23537

Don't be sorry Mike.
Just says we are both thinking the same hi hi..

73,
Gordon
N6WK

w5rkl wrote:
>
>
> Sorry bout that Gordon. We had the same thought at the same time.
>
> 73's
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, n6wk@... wrote:
> >
> >
> > Roland,
> > What is the Idle current on the finals in SSB?
> >
> > Gordon
> >
> > ah6rr1 wrote:
> > >
> > >
> > > Hello all I am looking at a TS-830 for a local handicap Ham. The
> radio
> > > has RX but no TX at all no ALC indication nada zip. I checked the
> > > voltages on the driver and finals and they are as follows
> > > Driver
> > > Pin 1 RX 0V TX 0V
> > > Pins 2&3 RX -47.3 TX .4
> > > pins 4-6 RX 0 TX 0
> > > Pin 7 RX 247 TX 239
> > > Pin 8 RX 334 TX 324
> > > Pin 9 0
> > >
> > > Finals V1 & V2
> > > Pins 1,4,6 RX 0 TX .316
> > > Pin 2 RX 12.7AC TX 12.3AC V2 RX 6.34AC TX 6.31AC
> > > Pin 3 RX 256 TX 241
> > > Pin 5 RX -102 TX -57
> > > Plate Voltage is RX 955 TX 955

> > > The Relay on the AF board is working.
> > > I followed the TX signal to the diver tube then to the finals and I
> > > have signal all the way to the finals. But I get no ALC indication at
> > > all.
> > > TX set for CW 14.200 and I get a 14.200 signal all the way to pin
> 5 on
> > > the final tubes the scope shows a good signal also. I did check the
> > > Grid resistors in circuit and they all read 5.9 ohms
> > > Any hints on where and what to look at next?
> > >
> > > Thanks
> > > Roland AH6RR
> > >
> > >
> >
>
> _

23538. RE:TS-830 No TX at all

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-20 23:51:36 UTC
From: ah6rr1
Topic: 23531 Message: 23538

Aloha Mike & Gordon,
The IP reading is ssb is 60mils and in cw it goes to 120 after some unplugging and plugging back some of the wire plugs on the IF and AF boards it is now transmitting full power but I still get no ALC indication in SSB. I will look at the service manual and see if I can trace the ALC circuit.
Anything in particular to look for?
Thanks
Roland AH6RR

23539. Re: [TS-520_820_530_830] RE:TS-830 No TX at all

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-21 00:15:07 UTC
From: n6wk@n6wk.com
Topic: 23531 Message: 23539

Roland,
I recommend removing the IF board and checking the pins on every
connector where they solder to the Board. I think you are going to find
some loose ones.
Very Common problem too.
Also, It happens to the connector terminal pins on the RF board very often.
Occasionally I see it on the PLL board but not quite as often. Usually
on the PLL board it is connector 7, it seems to me , that becomes loose.
Still, I would start with that IF board.
73,
Gordon
N6WK

ah6rr1 wrote:
>
>
> Aloha Mike & Gordon,
> The IP reading is ssb is 60mils and in cw it goes to 120 after some
> unplugging and plugging back some of the wire plugs on the IF and AF
> boards it is now transmitting full power but I still get no ALC
> indication in SSB. I will look at the service manual and see if I can
> trace the ALC circuit.
> Anything in particular to look for?
> Thanks
> Roland AH6RR
>
>

23540. Re: TS-570 versions

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-21 03:57:02 UTC
From: bnhall_2000
Topic: 23525 Message: 23540

My understanding is that Kenwood was unable to meet RoHS requirements in the EU due to non-availability of certain components in lead-free versions (specifically certain ICs), so they decided to discontinue the model, rather than attempt to redesign it to meet the spec.

They are fine transceivers IMHO, and a still a great deal for a DSP rig. I've never heard any complaints about the receiver in the TS-570.

Brian AC7NA

--- In TS-520_820_530_830@yahoogroups.com, "k4jdp" <k4jdp@...> wrote:
>
> Why were these discontinued so quickly? They were only marketed a couple of years. Was it receiver problems that I've read about or something else?
>
> 73's de K4JDP-John
>

23541. Re: IF Protection on TS-530S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-21 11:16:01 UTC
From: Yummy Fish
Topic: 23500 Message: 23541

Thanks Greg, that is a good idea. I'll see what I can find out about the IF amps.

Erik

--- In TS-520_820_530_830@yahoogroups.com, Greg Anders <greg.anders@...> wrote:
>
> I am not familiar with the device chosen for the IF amps in the 530. What I would do is look up the device and see what it can handle as a max. voltage swing on the gate. Its probably in the 1-5V range. Then select an MOV to trigger at the top. It will probably be a small-ish MOV. They are made in ranges to cover everything up to hi-voltage....
>
> FYI,
>
> Greg
> KG6YV
>

23542. Re: [TS-520_820_530_830] TS-570 versions

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-21 15:03:45 UTC
From: mike mackin
Topic: 23525 Message: 23542

Hello, John.
I am no expert, but I purchased my TS-570s in Dayton in 1999 and I have a QST with it advertised in 2006. I have had a ball with this rig. May not compare to some of the big high end rigs that are out there but for the price I think it has excellent receive with the optional filters installed. It is very versatile and I have never had any problems with it. It is my primary rig and still use it on a daily basis. I recently purchased a newer compact "do everything" rig of a different manufacturer and it's a big disappointment compared to the 570.

73, John.
Mike, N8YOK

--- On Fri, 11/20/09, k4jdp <k4jdp@...> wrote:

> From: k4jdp <k4jdp@...>
> Subject: [TS-520_820_530_830] TS-570 versions
> To: TS-520_820_530_830@yahoogroups.com
> Date: Friday, November 20, 2009, 6:10 AM
> Why were these discontinued so
> quickly? They were only marketed a couple of years.
> Was it receiver problems that I've read about or something
> else?
>
> 73's de K4JDP-John
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>   TS-520_820_530_830-fullfeatured@yahoogroups.com
>
>
>

23544. Leader LAC-895 Antenna Coupler

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-21 16:51:38 UTC
From: Don Thomas
Topic: 23544 Message: 23544

Does anybody have a manual and/or schematic for the Leader LAC-895 Antenna Tuner? A friend new to ham and HF acquired the tuner, but could use a manual while learning how to use it. Thanks in advance if you can help.

Don T. // K5ZRQ

[Non-text portions of this message have been removed]

23545. Re: [TS-520_820_530_830] Leader LAC-895 Antenna Coupler

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-21 18:08:51 UTC
From: martin
Topic: 23544 Message: 23545

Hi Don. I did not find a source for a free pdf version of the manual. Apparently one can be purchased from vintagemanuals,com.

I did find a picture. It is obvious that this is a pre-W.A.R.C. band tuner, so it may be of limited use on those bands. I am not sure that the Select 1 and Select 2 settings on the band switch are for unless they bypass the tuner. The tuner seems to be able to measure power up to 200 watts. Here is how I would proceed:

Set the band switch to the desired band. Set the Function knob to set, and the A Tune and B Tune knobs both to 5. Set the radio to CW and turn the power all the way down. Key the radio, and try to get a full scale reading on the meter by adjusting the set knob (marked Set to Full Scale). If you cannot get a full scale reading with the Set knob fully clockwise, turn uo the power slowly until you can. Unkey the radio. I would try this first with a dummy load connected to the antenna port of the tuner, then connect an antenna.

With an antenna connected, adjust the A Tune and B Tune knobs for the strongest signal or noise in the receiver. Set the Function knob to measure, and read the SWR from the SWR scale on the meter. If it is 1.3 or less, then you are good. If not, alternately adjust the two Tune knobs to try to get the swr to read less than 1.3. Do not key the transmitter for extended periods of time, I would not key up for more than 10 seconds at a time. Also, make sure that you are set on a clear frequency, as you will be transmitting a signal on the air.

Once you have gotten the best SWR that you can, write down the frequency and the settings of the band, and Tune knobs. Once you have done this, you can pre-set the tuner to those settings for that frequency of frequencies near that one. I have the tuner settings for my favorite frequencies recorded, and have made a chart of the frequencies and tuner settings. By carefully pre-setting the tuner, I can set things quickly with a minimum of on-air transmissions.

TTYL

Don Thomas wrote:
> Does anybody have a manual and/or schematic for the Leader LAC-895
> Antenna Tuner? A friend new to ham and HF acquired the tuner, but
> could use a manual while learning how to use it. Thanks in advance
> if you can help.
>
> Don T. // K5ZRQ
>
>

>
>
> [Non-text portions of this message have been removed]
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

23547. Re: [TS-520_820_530_830] Leader LAC-895 Antenna Coupler

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-21 19:50:00 UTC
From: Don Thomas
Topic: 23544 Message: 23547

Thanks for the info Martin. From what I've found, they were made in the early 70's and covered the basic 10 - 80 meter bands. I looked but could only find a manual at Vintagemanuals also. I use a tuner on a 80 meter loop so I am familiar with them. Have my own cheat sheet also for quick setup. Started writing up an instruction sheet for him last night and will mix it with your notes to make it easy for him to follow till he gets the hang of using a tuner. He has a TS-530 and a couple dipoles up now, but wanting to put up a loop for better band coverage instead of having multiple antennas.

The Direct 1 position only connects the TX jack to the Direct 1 jack for a resonant antenna or a dummy load. The Direct 2 position connects the TX jack straight thru to Direct 2 jack. The band freq positions connect the TX jack thru various coils and caps to the Direct 2 jack for tuning. (I opened it up to figure it out)

Don T.

--- On Sat, 11/21/09, martin <kb0hae@...> wrote:

From: martin <kb0hae@mchsi.com>
Subject: Re: [TS-520_820_530_830] Leader LAC-895 Antenna Coupler
To: TS-520_820_530_830@yahoogroups.com
Date: Saturday, November 21, 2009, 12:08 PM

Hi Don. I did not find a source for a free pdf version of the manual. Apparently one can be purchased from vintagemanuals, com.

I did find a picture. It is obvious that this is a pre-W.A.R.C. band tuner, so it may be of limited use on those bands. I am not sure that the Select 1 and Select 2 settings on the band switch are for unless they bypass the tuner. The tuner seems to be able to measure power up to 200 watts. Here is how I would proceed:

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With an antenna connected, adjust the A Tune and B Tune knobs for the strongest signal or noise in the receiver. Set the Function knob to measure, and read the SWR from the SWR scale on the meter. If it is 1.3 or less, then you are good. If not, alternately adjust the two Tune knobs to try to get the swr to read less than 1.3. Do not key the transmitter for extended periods of time, I would not key up for more than 10 seconds at a time. Also, make sure that you are set on a

clear frequency, as you will be transmitting a signal on the air.

Once you have gotten the best SWR that you can, write down the frequency and the settings of the band, and Tune knobs. Once you have done this, you can pre-set the tuner to those settings for that frequency of frequencies near that one. I have the tuner settings for my favorite frequencies recorded, and have made a chart of the frequencies and tuner settings. By carefully pre-setting the tuner, I can set things quickly with a minimum of on-air transmissions.

TTYL

[Non-text portions of this message have been removed]

23548. Re: RE:TS-830 No TX at all

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-21 22:29:00 UTC
From: ah6rr1
Topic: 23531 Message: 23548

I did remove the IF board and found no problem there so I went to check all the ALC componets and found Q19 on the AF board had -104 volts on all 3 legs it should only have -104 on 2 legs and 1 should have 3.0V RX and 2.6V TX so I am thinking that Q19 is bad. Luckly I have a parts radio and hope it fixes it.
Roland AH6RR

--- In TS-520_820_530_830@yahoogroups.com, n6wk@... wrote:
>
> Roland,
> I recommend removing the IF board and checking the pins on every
> connector where they solder to the Board. I think you are going to find
> some loose ones.
> Very Common problem too.
> Also, It happens to the connector terminal pins on the RF board very often.
> Occasionally I see it on the PLL board but not quite as often. Usually
> on the PLL board it is connector 7, it seems to me , that becomes loose.
> Still, I would start with that IF board.
> 73,
> Gordon
> N6WK
>
>
>
>
> ah6rr1 wrote:
> >
> >
> > Aloha Mike & Gordon,
> > The IP reading is ssb is 60mils and in cw it goes to 120 after some
> > unplugging and plugging back some of the wire plugs on the IF and AF
> > boards it is now transmitting full power but I still get no ALC
> > indication in SSB. I will look at the service manual and see if I can
> > trace the ALC circuit.
> > Anything in particular to look for?
> > Thanks
> > Roland AH6RR
> >
> >
>

23549. MC-60 wireing errors

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-21 23:08:02 UTC
From: Walter Breining
Topic: 23508 Message: 23549

Please keep in mind that Many MC-60 and MC-60A mikes have a wiring problem. This is particually true of the MC-60A. Inside the mike itself, the wires on pins 1 and 7 are reversed. The schematic in the manual is also wrong.
With this error, the mike case is how with the live audio.

This cannot be checked with an ohmmeter.

On the plug on the bottom of the mike, Pin 1 should be the live mike audio (white) and pin 7 should be the shield ground. Pin 7 should connect to the mike case inside of the mike itself.

The plug on the bottom of the mike is threaded into the mike case and the threads are glued. Carefully heat the outside of the male plug on the bottom of the microphone case with a soldering iron to soften the glue and unscrew the plug Counter Clockwise. Inside the live mike audio wire (white) should connect to pin 1. This wire comes from the switch inside the mike. A wire that connects to the microphone case should connect to pin 7.

If your mike has this error, correcting it will correct many problems the MC-60 series mikes often have.

Walt N9WB

From: Greg Anders <greg.anders@...>
To: "TS-520_820_530_830@yahoogroups.com" <TS-520_820_530_830@yahoogroups.com>
Sent: Thu, November 19, 2009 9:54:02 AM
Subject: RE: [TS-520_820_530_830] MC-60/90

Hi Kevin,

I use an MC-60A with the amplifier (OFF) on my 520SE. Works great, sounds very good from reports I get. With the MC-60 I find that the mic. Gain is set around 40% with the processor off and a bit less with it on.

FYI,

Greg
KG6YV

From: TS-520_820_530_ 830@yahoogroups. com [mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of BILL S
Sent: Wednesday, November 18, 2009 5:34 PM
To: TS-520_820_530_ 830@yahoogroups. com
Subject: [TS-520_820_ 530_830] MC-60/90

hi there Kenwood Fans,

i was wondering if anybody here has had any experience with using either a MC-60 or a MC-90 with a TS-520s and what were your results, im looking at pairing either one with my ts-520 and was looking for some feedback

thanks Kevin

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23550. Re: [TS-520_820_530_830] MC-60 wireing errors

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-22 02:22:53 UTC
From: Joan de vk5kyo
Topic: 23508 Message: 23550

Hi all

I also use a MC-60A on my TS-830. At 100w, the wiring reversal never
appeared to cause any problems.
It was only when I started using a Linear amplifier that the reversal
became a real problem with regards to RF feedback..
Another amateur alerted me of this wiring issue, and indeed mine was wrong.
Once the wiring was put straight, the RF feedback problem was eliminated.

Joan, vk5kyo

Walter Breining wrote:
>
>
> Please keep in mind that Many MC-60 and MC-60A mikes have a wiring
> problem. This is particually true of the MC-60A. Inside the mike
> itself, the wires on pins 1 and 7 are reversed. The schematic in the
> manual is also wrong.
> With this error, the mike case is how with the live audio.
>
> This cannot be checked with an ohmmeter.
>
> On the plug on the bottom of the mike, Pin 1 should be the live mike
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> connect to the mike case inside of the mike itself.
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> audio wire (white) should connect to pin 1. This wire comes from the
> switch inside the mike. A wire that connects to the microphone case
> should connect to pin 7.
>
> If your mike has this error, correcting it will correct many problems
> the MC-60 series mikes often have.
>
> Walt N9WB
>
> _____
> From: Greg Anders <greg.anders@...
> <mailto:greg.anders%40synopsys.com>>
> To: "TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>"
> <TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>>

> Sent: Thu, November 19, 2009 9:54:02 AM
> Subject: RE: [TS-520_820_530_830] MC-60/90
>
>
> Hi Kevin,
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> I use an MC-60A with the amplifier (OFF) on my 520SE. Works great,
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> mic. Gain is set around 40% with the processor off and a bit less with
> it on.
>
> FYI,
>
> Greg
> KG6YV
>
> From: TS-520_820_530_ 830@yahoogroups. com [mailto:TS-520_820_530_
> 830@yahoogroups. com] On Behalf Of BILL S
> Sent: Wednesday, November 18, 2009 5:34 PM
> To: TS-520_820_530_ 830@yahoogroups. com
> Subject: [TS-520_820_ 530_830] MC-60/90
>
> hi there Kenwood Fans,
>
> i was wondering if anybody here has had any experience with using
> either a MC-60 or a MC-90 with a TS-520s and what were your results,
> im looking at pairing either one with my ts-520 and was looking for
> some feedback
>
> thanks Kevin
>
> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

23551. Re: RE:TS-830 No TX at all

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-22 14:18:45 UTC
From: w5rkl
Topic: 23531 Message: 23551

Roland,

It appears from your voltage measurements that Q19 on your 830's AF UNIT is shorted emitter to collector.

I also recommend checking the 9 volt zener diode D21 (WZ-090) as it may have been permanently damaged with -104VDC applied to it's cathode.

A possible replacement is a 9.1 volt 500ma zener from Mouser. Mouser part number 621-1N5239B-T (axial lead) and the price is 23 cents. Mouser has 9,661 of these in stock ready to ship.

The pdf document sheet for Q19, 2SC1515(Y), can be found at the following link:

http://www.datasheetcatalog.com/datasheets_pdf/2/S/C/1/2SC1515%28K%29.shtml

If you are unable to retrieve Q19 from your parts radio but you locate a suitable replacement, ensure you pay close attention to the lead orientation.

Not all TO-92 transistors have the same lead orientation. The 2N2222, for example, also comes in a TO-92 body and with the flat side facing you, the 2N2222 leads are "Emitter, Base, Collector" where as the 2SC1515(Y) leads are "Emitter, Collector, Basie".

The 2N2222 NPN transistor will NOT work as a replacement for the 2SC1515(Y). I only used the 2N2222 transistor in its TO-92 enclosure as an example of the lead orientation differences between the 2 transistors and the important of noting the differences before installing a replacement for Q19 on the AF UNIT board.

73's
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "ah6rr1" <ah6rr@...> wrote:
>
> I did remove the IF board and found no problem there so I went to check all the ALC componets and found Q19 on the AF board had -104 volts on all 3 legs it should only have -104 on 2 legs and 1 should have 3.0V RX and 2.6V TX so I am thinking that Q19 is bad. Luckly I have a parts radio and hope it fixes it.
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> > > boards it is now transmitting full power but I still get no ALC
> > > indication in SSB. I will look at the service manual and see if I can
> > > trace the ALC circuit.
> > > Anything in particular to look for?
> > > Thanks
> > > Roland AH6RR
> > >
> > >
> >
>

23552. TS-520SE meter reading

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-22 13:06:53 UTC
From: Peter
Topic: 23552 Message: 23552

When the function switch on my 520SE is set to either TUN or CW and the AGC is on either fast or slow the meter is up to the L in ALC. Is ther an adjustment that needs to be made?

23553. Antenna ideas for TS-520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-22 05:09:46 UTC
From: James Allen
Topic: 23553 Message: 23553

Hi everyone. I'm a bit new to the group but I have enjoyed reading the conversations that I have seen so far. I have a TS-520SE that I really want to get on the air but sicne it is my first HF radio I do not have an antenna for it yet. I don't have a lot of space available as I live on a very small lot (about .12 acres or so I think) but I did figure out that I have enough of a run around the edge of my roof to fit a 80m dipole or equivilent (not a 160 unfortunately though).

The problem I am facing is that I would really like to put up a single antenna that I can work all the bands available on my radio from 80m to 10m without using an antenna tuner, since at this point even buying supplies to build a simple antenna would be difficult to manage. I have heard that the pi-network in the TS-520SE can handle varied SWR's before any adverse affects, but I have not seen just what this setup is capable of handling.

So here are two questions. First, how effective is the pi-network in the 520SE and what are its capabilities as far as tuning into antennas? Second, what antenna designs would you suggest to be able to cover the 80m-10m bands available on the 520SE (off the top of my head I think they are 80m, 40m, 20m, 15m, and 10m. I could be wrong on the 15m though) that I could build for as little investment as possible and will be able to hook directly into the radio (so no external tuner, I do not have the money for one. If someone wants to give me one for free I'm all over that! Even if it needs repair.) and have installed on my roof, whether it is around the edge or what. I live in a rambler style house that has a footprint of about 50' x 45'.

I've been looking for a while now at different designs but cannot figure out for the life of me which one to try. I'm still fairly new to amateur radio. I got my liscence about a year and a half ago, but i've been worknig on electroncs, computers, and robotics for about 15-20 years or so now. I actally bought the 520SE as a fixer-upper, fortunately for me there was not much wrong with it in reality. I was able to learn how to tune it into a dummy load a friend lent me, now I just need an antenna to start really using the thing and learning more about this hobby of mine. I appreciate any help you guys can give me!

Paul Allen
KE7TYY

[Non-text portions of this message have been removed]

23554. Re: [TS-520_820_530_830] Antenna ideas for TS-520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-22 16:52:44 UTC
From: martin
Topic: 23553 Message: 23554

Hi James. The manual for the TS-520SE says that you must operate the transceiver into a 50 ohm dummy load or antenna that has an SWR of 2:1 or less. You will need a dummy load to tune up the transceiver in any case. I built one recently for a friend, they are fairly simple. No matter what type of antenna you end up with you will need an SWR meter, or the help of a local ham that has one.

There are multi-band vertical antennas, but even used they are fairly expensive. A multiple dipole (several dipoles with a single feed point may be an option. If there is any way to get the antenna above or away from the house it will work better.

You wouldn't need the latest model tuner. A few of years ago I bought an MFJ Versa Tuner 941 (no bloody A, B, C, or D!) for $20.00 (shipping included) Something like that would work well with your radio, and has the capability to let you use coax or ladder line to feed an antenna. You could use a random wire or an 80M dipole for all of the bands you mentioned. Pretty much any antenna that you come up with is not going to cover the entire 80M band, nor even the voice segment with a 2:1 or less SWR anyway.

Feed-line is another consideration. Coax is fairly expensive. Ladder line is less expensive, but you will need a balun at the transceiver, and maybe one at the antenna feed-point (depending on the antenna type)and they are expensive too.

You best bet is to contact a local Amateur Radio Club. Someone there can look at your situation, and make suggestions. They may even be able to help you a bit with getting your station on the air.

TTYL and good luck!

James Allen wrote:
> Hi everyone. I'm a bit new to the group but I have enjoyed reading the
> conversations that I have seen so far. I have a TS-520SE that I really want
> to get on the air but sicne it is my first HF radio I do not have an antenna
> for it yet. I don't have a lot of space available as I live on a very small
> lot (about .12 acres or so I think) but I did figure out that I have enough
> of a run around the edge of my roof to fit a 80m dipole or equivilent (not a
> 160 unfortunately though).
>
> The problem I am facing is that I would really like to put up a single
> antenna that I can work all the bands available on my radio from 80m to 10m
> without using an antenna tuner, since at this point even buying supplies to
> build a simple antenna would be difficult to manage. I have heard that the
> pi-network in the TS-520SE can handle varied SWR's before any adverse

> affects, but I have not seen just what this setup is capable of handling.
>
> So here are two questions. First, how effective is the pi-network in the
> 520SE and what are its capabilities as far as tuning into antennas? Second,
> what antenna designs would you suggest to be able to cover the 80m-10m bands
> available on the 520SE (off the top of my head I think they are 80m, 40m,
> 20m, 15m, and 10m. I could be wrong on the 15m though) that I could build
> for as little investment as possible and will be able to hook directly into
> the radio (so no external tuner, I do not have the money for one. If someone
> wants to give me one for free I'm all over that! Even if it needs repair.)
> and have installed on my roof, whether it is around the edge or what. I live
> in a rambler style house that has a footprint of about 50' x 45'.
>
> I've been looking for a while now at different designs but cannot figure out
> for the life of me which one to try. I'm still fairly new to amateur radio.
> I got my liscence about a year and a half ago, but i've been worknig on
> electroncs, computers, and robotics for about 15-20 years or so now. I
> actally bought the 520SE as a fixer-upper, fortunately for me there was not
> much wrong with it in reality. I was able to learn how to tune it into a
> dummy load a friend lent me, now I just need an antenna to start really
> using the thing and learning more about this hobby of mine. I appreciate any
> help you guys can give me!
>
>
> Paul Allen
> KE7TYY
>
>
> [Non-text portions of this message have been removed]
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

23555. Re: [TS-520_820_530_830] Antenna ideas for TS-520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-22 18:03:32 UTC
From: HPA II
Topic: 23553 Message: 23555

Hello James, my 75m antenna is a Ham Stick dipole, vertical w/3' offset from the mast. The mast is grounded to the negative (lower portion of the dipole) and acts as if were part of the antenna. It has a 40 kc span but functions perfectly through out the voice band w/tuner.

My 40-20m antenna is a 39' wire w/300 ohm twin lead intertwined to make up the capacitance. This is 30' above ground from peak to peak. House is 45' long.

Ingenuity is the mother of all invention for antennas and how to support them. The masts are from ground level supported @ the peak w/a hinged tilt over @ 2' above the peak. Rope and pulleys raise and lower the wire.

A Shakespeare Big Stick works well on one mast for 10 &12m (w/tuner)!

Good Luck!

Harry, k6aom

[Non-text portions of this message have been removed]

23556. Re: [TS-520_820_530_830] Antenna ideas for TS-520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-22 18:15:14 UTC
From: John Davidson
Topic: 23553 Message: 23556

First the antenna is not so much of a problem than the feedline losses you get with odd lengths that are not resonant on the various bands you want to use a single run of wire on. One solution is a trap vertrical . It is designed to give a good match to a 50 ohm coax feed on the bands it is designed for.
Used antennas can be found at bargain prices..
 A vertical also has a low angle of launch and is good for DX if that is a goal for you. Alternatively the horizontal trap dipoles are great for shorter distances and will have strong signals across north America.
 Again good match for the bands it has traps for. Coax feed with low losses and no tuner is required.
You can build your own traps for the bands you wanted to use from plans in various antenna books or on the net.
These antennas will have a very low SWR on one freq (you choose the freq by adjusting the ant when you put it up) and gradually worse as you go up or down the bands.
The Pi network in your rig will have no problem tuning up across most of a band.
Good luck...73.....JD

--- On Sun, 11/22/09, James Allen <jp.paul.allen@...> wrote:

From: James Allen <jp.paul.allen@...>
Subject: [TS-520_820_530_830] Antenna ideas for TS-520SE
To: "ts-520_820_. I don't have a lot of space available as I live on a very small lot
The problem I am facing is that I would really like to put up a single antenna that I can work all the bands available on my radio from 80m to 10m without using an antenna tuner. I have heard that the pi-network in the TS-520SE can handle varied SWR's before any adverse affects, but I have not seen just what this setup is capable of handling.

So here are two questions. First, how effective is the pi-network in the 520SE and what are its capabilities as far as tuning into antennas? Second, what antenna designs would you suggest to be able to cover the 80m-10m. I appreciate any help you guys can give me!

Paul Allen
KE7TYY

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23557. Re: [TS-520_820_530_830] Antenna ideas for TS-520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-22 18:18:07 UTC
From: John Davidson
Topic: 23553 Message: 23557

--- On Sun, 11/22/09, HPA II <k6aom@...> wrote:

From: HPA II <k6aom@...>
Subject: Re: [TS-520_820_530_830] Antenna ideas for TS-520SE
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, November 22, 2009, 1:03 PM

My 40-20m antenna is a 39' wire w/300 ohm twin lead intertwined to make up the capacitance.
This is 30' above ground from peak to peak. House is 45' long.
He did not want to use a tuner and you can't hook twin lead to the rig directly

A Shakespeare Big Stick works well on one mast for 10 &12m (w/tuner)!
He didn't want to use a tuner
Good Luck!

Harry, k6aom

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23558. Re: [TS-520_820_530_830] TS-520SE meter reading

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-22 18:21:14 UTC
From: John Davidson
Topic: 23552 Message: 23558

Is when the radio is transmitting or receiving ?
If you have no key plugged in the rig will go into TX mode when on CW or Tune function if the VOX is turned on !
The key jack willl short when there is no key plug in place !.

--- On Sun, 11/22/09, Peter <nitchman@...> wrote:

From: Peter <nitchman@...>
Subject: [TS-520_820_530_830] TS-520SE meter reading
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, November 22, 2009, 8:06 AM

When the function switch on my 520SE is set to either TUN or CW and the AGC is on either fast or slow the meter is up to the L in ALC. Is ther an adjustment that needs to be made?

[Non-text portions of this message have been removed]

23559. Re: [TS-520_820_530_830] Antenna ideas for TS-520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-22 18:31:35 UTC
From: John Davidson
Topic: 23553 Message: 23559

I'm sorry but for clarity I should have said " in each band these antennas will have very low SWR on one frequency,and gradually higher SWR as you move up and down that band, away from that resonant frequency "

--- On Sun, 11/22/09, John Davidson <k8jd@...> wrote:

From: John Davidson <k8jd@...>
Subject: Re: [TS-520_820_530_830] Antenna ideas for TS-520SE
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, November 22, 2009, 1:15 PM

These antennas will have a very low SWR on one freq (you choose the freq by adjusting the ant when you put it up) and gradually worse as you go up or down the bands.
removed]

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[Non-text portions of this message have been removed]

23560. TS-530S FOR SALE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-22 19:41:04 UTC
From: aschichler
Topic: 23560 Message: 23560

I have a very nice TS-530S that I have decided to sell. It is very clean, in very nice condition, and has the CW filter installed. Everything works 100%.
It has been aligned within the last 2 years and everything is still right on. Also, all controls and switches are clean and work perfectly. Cosmetically about a 9 out of 10 (very slight scratches here and there), functionally a 10 out of 10. I have pictures I can send to anyone interested. If the buyer isn't 100% satisfied, I will return the full cost of the radio (minus shipping).
Also, if someone is not interested in the CW filter, I am willing to remove it for $50 off the total price.
Asking $375 plus shipping.

Thanks,
Al, WA2AS

23561. Re: [TS-520_820_530_830] TS-520SE meter reading

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-22 20:05:58 UTC
From: Pat & Pete
Topic: 23552 Message: 23561

Thanks for the tip. No key & VOX was off. I was tuning into a dummy load. I'll recheck all of my settings.

----- Original Message -----
From: John Davidson
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, November 22, 2009 1:21 PM
Subject: Re: [TS-520_820_530_830] TS-520SE meter reading

Is when the radio is transmitting or receiving ?
If you have no key plugged in the rig will go into TX mode when on CW or Tune function if the VOX is turned on !
The key jack willl short when there is no key plug in place !.

--- On Sun, 11/22/09, Peter <nitchman@...> wrote:

From: Peter <nitchman@...>
Subject: [TS-520_820_530_830] TS-520SE meter reading
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, November 22, 2009, 8:06 AM

When the function switch on my 520SE is set to either TUN or CW and the AGC is on either fast or slow the meter is up to the L in ALC. Is ther an adjustment that needs to be made?

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23562. Re: Antenna ideas for TS-520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-22 20:43:58 UTC
From: w5rkl
Topic: 23553 Message: 23562

The 520's LOAD section of the PI Network should not be viewed as an Antenna Tuner. The 520's LOAD control has a limited range, 50 to 75 ohms, that it can match.

While it's possible to wrap a loop around your house's eve and operate on all bands, the efficiency of an antenna of that type will be considerably less than an simple all band Hustler 4, 5, or 6BTV vertical, ground mounted with 20 radials buried a couple of inches below the ground and fed with RG-8x coax cable.

Verticals are ideal where limited real estate is a problem. When using verticals, is important to follow the manufacturers assembly and mounting instructions. Ground mounting does not require that each radial for each band be cut to resonance.

You didn't say so so I'm going to assume you are living in an HOA "no outside antenna" subdivision. If that's the case, you might consider a flag pole antenna. See the link before for details on the Force 12 Flag Pole antenna.

http://force12inc.com/32822/index.html

Any vertical will result in a higher noise level than a horizontal antenna. Simple dipole antennas will be much quieter than a vertical.

Multi-band dipoles will work without a tuner but their length becomes an issue if you have limited space which I believe you said you did not have a lot of space for antennas.

The G5RV is a good all band antenna but a tuner "IS" required between the 520 and the antenna or, if you are using an amplifier, between the amplifier and the antenna. The G5RV comes in a number is lengths. I use the 102' G5RV on 40 thru 10 fed with RG-8x from a Drake MN-2000 tuner. Works very well. It's a bit noisier than my 40 meter dipole but it works very well. I use it on 80 meters but the bandwidth is very limited even with the tuner.

These are only a few suggestions for antennas. Look around the Interent, AES, for example, sells a wide variety of antennas (HF, VHF, UHF and above) at a variety of prices that may fit your needs.

http://www.aesham.com/

Experiment with different types of antennas. Purchase a copy of the ARRL's antenna handbook from the ARRL's website.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, James Allen <jp.paul.allen@...> wrote:
>
> Hi everyone. I'm a bit new to the group but I have enjoyed reading the
> conversations that I have seen so far. I have a TS-520SE that I really want
> to get on the air but sicne it is my first HF radio I do not have an antenna
> for it yet. I don't have a lot of space available as I live on a very small

> lot (about .12 acres or so I think) but I did figure out that I have enough
> of a run around the edge of my roof to fit a 80m dipole or equivilent (not a
> 160 unfortunately though).
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> The problem I am facing is that I would really like to put up a single
> antenna that I can work all the bands available on my radio from 80m to 10m
> without using an antenna tuner, since at this point even buying supplies to
> build a simple antenna would be difficult to manage. I have heard that the
> pi-network in the TS-520SE can handle varied SWR's before any adverse
> affects, but I have not seen just what this setup is capable of handling.
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> So here are two questions. First, how effective is the pi-network in the
> 520SE and what are its capabilities as far as tuning into antennas? Second,
> what antenna designs would you suggest to be able to cover the 80m-10m bands
> available on the 520SE (off the top of my head I think they are 80m, 40m,
> 20m, 15m, and 10m. I could be wrong on the 15m though) that I could build
> for as little investment as possible and will be able to hook directly into
> the radio (so no external tuner, I do not have the money for one. If someone
> wants to give me one for free I'm all over that! Even if it needs repair.)
> and have installed on my roof, whether it is around the edge or what. I live
> in a rambler style house that has a footprint of about 50' x 45'.
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> I've been looking for a while now at different designs but cannot figure out
> for the life of me which one to try. I'm still fairly new to amateur radio.
> I got my liscence about a year and a half ago, but i've been worknig on
> electroncs, computers, and robotics for about 15-20 years or so now. I
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> much wrong with it in reality. I was able to learn how to tune it into a
> dummy load a friend lent me, now I just need an antenna to start really
> using the thing and learning more about this hobby of mine. I appreciate any
> help you guys can give me!
>
>
> Paul Allen
> KE7TYY
>
>
> [Non-text portions of this message have been removed]
>

23563. Antenna ideas for TS-520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-22 21:16:00 UTC
From: Allan Cridland
Topic: 23553 Message: 23563

Hi Paul,

I have found that an off centre dipole is a great multi-band antenna. It will give you coverage on 80, 40, 20 & 10 meters without the need of a tuner, but a tuner would be needed on 75 & 15 meters. I use one at home and have a portable one for field work (mainly JOTA). You would need a 4:1 balun and two lengths of wire 90 feet and 45 feet. I usually set it up as an inverted "V" with a centre height of 35 ~ 40 feet. The end to end measurement should work out to be 118 ~ 120 feet. If this will fit into your allotment, it is a great alternative.
A smaller dipole or vertical could be set up for 15 meters fairly easily or alternatively wait until it is affordable for you to purchase a tuner.

Hope this helps in you quest.
Allan VK4JAC

[Non-text portions of this message have been removed]

23564. Antenna ideas for TS-520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-22 22:07:49 UTC
From: Allan Cridland
Topic: 23553 Message: 23564

Hi again,

If an OCD (off centre dipole) won't quite fit into your small allotment, it is possible to bend the ends of the dipole without any major degrading of it's performance.
Also, the ends only need to be 8 ~ 10 feet above ground level.

Allan VK4JAC

[Non-text portions of this message have been removed]

23565. Re: [TS-520_820_530_830] Antenna ideas for TS-520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-22 23:26:59 UTC
From: James Allen
Topic: 23553 Message: 23565

I have looked at the OCD and considered it. I have enough run around the edge of my roofline to fit one in the shape of a "U." I know this will likely change the radiation pattern of it, but I am willing to accept some compromises in performance.

Do you think I should use standoffs for putting up the antenna, or is would it be ok to have it within an inch or so of the roof? I am thinking of using the christmas light clips that you can get to put up the antenna since it would make the job extremely easy for me. The ones I am referring to is the type you see at Lowes and Home Depot where it comes with an extendable handle that you screw the clips onto and then they slip under the shingles or can clip onto your rain gutter. I know it would not be a long term mounting solution but it'd be enough to get me through the winter, plus I already have a bunch of them.

Also, do you have a link for the type of OCD you are thinking of? I know there are several variants out there.

Thanks for the help!

Paul Allen
KE7TYY

On Sun, Nov 22, 2009 at 3:07 PM, Allan Cridland <afc@...> wrote:

>
>
> Hi again,
>
> If an OCD (off centre dipole) won't quite fit into your small allotment, it
> is possible to bend the ends of the dipole without any major degrading of
> it's performance.
> Also, the ends only need to be 8 ~ 10 feet above ground level.
>
>
> Allan VK4JAC
>
> [Non-text portions of this message have been removed]
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>
>

[Non-text portions of this message have been removed]

23566. TS-820 receive volume, intermittent drop

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-22 23:22:14 UTC
From: k5lcl@sbcglobal.net
Topic: 23566 Message: 23566

Any ideas on what would make the TS-820 volume drop on receive intermittently? It seems to happen more often just after I finish transmitting, but it will do it while just receiving also.
It's not the volume reduction associated with propagation, (I can tell the difference), but something internal to the radio. The volume will drop to about 1/2 level, then just come back up to normal for no apparent reason.

23567. Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-22 23:38:05 UTC
From: Dave ve3wej
Topic: 23566 Message: 23567

bad speaker connection??? have you tried an external speaker, and does
that do it too.. have you cleaned the contacts on the AF control???
checked the wires going to the speaker headphone or ext spkr jacks.....

Dave Garber
VE3WEJ
----- Original Message -----
From: <k5lcl@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, November 22, 2009 6:22 PM
Subject: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

> Any ideas on what would make the TS-820 volume drop on receive
> intermittently? It seems to happen more often just after I finish
> transmitting, but it will do it while just receiving also.
> It's not the volume reduction associated with propagation, (I can tell the
> difference), but something internal to the radio. The volume will drop to
> about 1/2 level, then just come back up to normal for no apparent reason.
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> Yahoo! Groups Links
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23568. Re: [TS-520_820_530_830] Antenna ideas for TS-520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-22 23:42:45 UTC
From: James Allen
Topic: 23553 Message: 23568

wow, lots of replies! Thanks guys!

A few things to clarify. First, I am fortunate and do not live in an HOA, so I can do quite a bit. Second, I was lucky and was able to pick up some slightly used coax for a good price a the same time i bought my radio, about 60+ feet of it so I can go from the front of my house where my radio is all the way to the back and up to the roof if I want, so I can any antenna pretty much anywhere on my property. I cannot remember the type off hand but it is the large sized coax (about 1/2 diameter).

Third, I thought about a vertical, but the problem is I would have to put it in my front yard most likely since my back yard is almost non-existent. My yard's footprint is about 100'x55' in the shape of a parallelogram. And my front yard has a flowering Pear tree smack in the middle, so I might be able to put the antenna there if it's a vertical, but I don't know how the tree would interact with the antenna, plus my understanding is that I'd need a tuner for the vertical, especially to cover multiple bands. I also know that I need to have some fairly long radials installed, and the longest I'd be able to have is maybe 20 feet or so.

I'm not trying to be super picky, but money is an issue right now (I'll be luck if I can buy anything at all for this), and I mainly want to get up something before winter really hits here in Utah. I don't plan on whatever I put up being a permanent solution, just a stop gap till next year when I have a better job and more money to invest in a decent antenna. And when I move out of the place we are in now, a bigger yard is way up there on the needs list, so I will be happy with just getting on HF finally.

[Non-text portions of this message have been removed]

23569. Re: [TS-520_820_530_830] Antenna ideas for TS-520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-23 00:07:29 UTC
From: Allan Cridland
Topic: 23553 Message: 23569

Hi Paul,
Not sure how anOCD would perform in a "U" shape.
If your gutters or facia board is made of a steel or aluminium, I am sure their would be some sort of interaction.
The OCD is best suited a an inverted "V" which gives it an omni-dierction pattern (best radiation would be towards the longer side of the antenna.
Noticed in your later post that you have 100' available...just bend the last 20' of the longer side at 90 degrees. Should work just fine.
There is plenty of information on the web, just google OCD or windom. Try this one:
http://www.packetradio.com/windom.htm

Allan VK4JAC

[Non-text portions of this message have been removed]

23570. SW-2000 meter

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-23 03:02:46 UTC
From: Tate Antrim
Topic: 23570 Message: 23570

Anyone have any couplers SWC-1, 2 or 3?

Contact off list. Thanks

KD8HJA

[Non-text portions of this message have been removed]

23571. Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-23 04:54:36 UTC
From: Dennis Windle
Topic: 23566 Message: 23571

Sounds like the relay contacts, try cleaning them. The receive signal passes through a set of NC (normally closed) relay contacts which open when you key up then close on key down so if they are dirty or corroded or pitted you would get these symptoms.
D.Windle
----- Original Message -----
From: k5lcl@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, November 22, 2009 6:22 PM
Subject: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

Any ideas on what would make the TS-820 volume drop on receive intermittently? It seems to happen more often just after I finish transmitting, but it will do it while just receiving also.
It's not the volume reduction associated with propagation, (I can tell the difference), but something internal to the radio. The volume will drop to about 1/2 level, then just come back up to normal for no apparent reason.

[Non-text portions of this message have been removed]

23572. Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-23 05:53:20 UTC
From: k5lcl@sbcglobal.net
Topic: 23566 Message: 23572

I tried hooking up an external speaker and a set of headphones, but the problem still continued. I have not yet tried (DeOxit) cleaning the AF Control POT, if that is what you mean by AF control, however the symptom does not seem to be in the AF knob. There is no static or broad volume changes when turning the AF knob, like what I'm used to when the volume control on other electronic items need cleaning. It just raises the volume in a smooth manner.
It acts like it might be a relay sticking or in need of cleaning, but I am just guessing there. I noticed that even while the heater switch was off, (so it wouldn't transmit), that keying the mike would cause the symptom to re-appear. The volume and the S-Meter would drop, then after clicking the mike button several times, it would suddenly come back to normal volume and S-Meter readings.

----- Original Message -----
From: Dave ve3wej
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, November 22, 2009 5:38 PM
Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

bad speaker connection??? have you tried an external speaker, and does
that do it too.. have you cleaned the contacts on the AF control???
checked the wires going to the speaker headphone or ext spkr jacks.....

Dave Garber
VE3WEJ
----- Original Message -----
From: <k5lcl@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, November 22, 2009 6:22 PM
Subject: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

> Any ideas on what would make the TS-820 volume drop on receive
> intermittently? It seems to happen more often just after I finish
> transmitting, but it will do it while just receiving also.
> It's not the volume reduction associated with propagation, (I can tell the
> difference), but something internal to the radio. The volume will drop to
> about 1/2 level, then just come back up to normal for no apparent reason.
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

[Non-text portions of this message have been removed]

23573. Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-23 05:54:05 UTC
From: k5lcl@sbcglobal.net
Topic: 23566 Message: 23573

That's what I'm guessing. Any idea which relay it might be?
----- Original Message -----
From: Dennis Windle
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, November 22, 2009 10:54 PM
Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

Sounds like the relay contacts, try cleaning them. The receive signal passes through a set of NC (normally closed) relay contacts which open when you key up then close on key down so if they are dirty or corroded or pitted you would get these symptoms.
D.Windle
----- Original Message -----
From: k5lcl@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, November 22, 2009 6:22 PM
Subject: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

Any ideas on what would make the TS-820 volume drop on receive intermittently? It seems to happen more often just after I finish transmitting, but it will do it while just receiving also.
It's not the volume reduction associated with propagation, (I can tell the difference), but something internal to the radio. The volume will drop to about 1/2 level, then just come back up to normal for no apparent reason.

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[Non-text portions of this message have been removed]

23574. Re: TS-820 receive volume, intermittent drop

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-23 08:42:45 UTC
From: w5rkl
Topic: 23566 Message: 23574

The relay in question is located on the bottom, between the final amplifier pc board and the rear panel. Remove the small metal enclosure and pull the relay from it's socket.

Pry the plastic cover from the relay using a thin jewelers flat blade screw driver.

Use contact cleaner applied to a piece of bond paper, slide paper between contacts until the paper no longer turns black.

Use canned air to remove excessive contact cleaner and any debris remaining after cleaning. Install plastic cover, plug relay into it's socket, and check for proper operation.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, <k5lcl@...> wrote:
>
> That's what I'm guessing. Any idea which relay it might be?
> ----- Original Message -----
> From: Dennis Windle
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, November 22, 2009 10:54 PM
> Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop
>
>
>
> Sounds like the relay contacts, try cleaning them. The receive signal passes through a set of NC (normally closed) relay contacts which open when you key up then close on key down so if they are dirty or corroded or pitted you would get these symptoms.
> D.Windle
> ----- Original Message -----
> From: k5lcl@...
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, November 22, 2009 6:22 PM
> Subject: [TS-520_820_530_830] TS-820 receive volume, intermittent drop
>
> Any ideas on what would make the TS-820 volume drop on receive intermittently? It seems to happen more often just after I finish transmitting, but it will do it while just receiving also.
> It's not the volume reduction associated with propagation, (I can tell the difference), but something internal to the radio. The volume will drop to about 1/2 level, then just come back up to normal for no apparent reason.
>
> [Non-text portions of this message have been removed]
>
>
>

>
>
> [Non-text portions of this message have been removed]
>

23575. Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-23 14:40:48 UTC
From: Dennis Windle
Topic: 23566 Message: 23575

RL1 and it is somewhat hidden under a small metal cover. With the bottom cover off and with the back of the 820 facing you look to the rigt rear corner (close to where the antenna SO239 is mounted) and you will see under the metal cover. You will have to remove the screws holding the cover in place to gain access to the relay to pull it out of the socket.

D.Windle
----- Original Message -----
From: k5lcl@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, November 23, 2009 12:54 AM
Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

That's what I'm guessing. Any idea which relay it might be?
----- Original Message -----
From: Dennis Windle
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, November 22, 2009 10:54 PM
Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

Sounds like the relay contacts, try cleaning them. The receive signal passes through a set of NC (normally closed) relay contacts which open when you key up then close on key down so if they are dirty or corroded or pitted you would get these symptoms.
D.Windle
----- Original Message -----
From: k5lcl@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, November 22, 2009 6:22 PM
Subject: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

Any ideas on what would make the TS-820 volume drop on receive intermittently? It seems to happen more often just after I finish transmitting, but it will do it while just receiving also.
It's not the volume reduction associated with propagation, (I can tell the difference), but something internal to the radio. The volume will drop to about 1/2 level, then just come back up to normal for no apparent reason.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23576. Re: TS-530S FOR SALE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-23 15:18:15 UTC
From: aschichler
Topic: 23560 Message: 23576

I just wanted to add that it comes with a copy of the owners manual and the service manual, both in very good shape.

Thanks,
Al, WA2AS

--- In TS-520_820_530_830@yahoogroups.com, "aschichler" <aschichler@...> wrote:
>
> I have a very nice TS-530S that I have decided to sell. It is very clean, in very nice condition, and has the CW filter installed. Everything works 100%.
> It has been aligned within the last 2 years and everything is still right on. Also, all controls and switches are clean and work perfectly. Cosmetically about a 9 out of 10 (very slight scratches here and there), functionally a 10 out of 10. I have pictures I can send to anyone interested. If the buyer isn't 100% satisfied, I will return the full cost of the radio (minus shipping).
> Also, if someone is not interested in the CW filter, I am willing to remove it for $50 off the total price.
> Asking $375 plus shipping.
>
> Thanks,
> Al, WA2AS
>

23577. unsubscribe for campbellgc@bellsouth.net

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-23 16:04:34 UTC
From: George Campbell
Topic: 23577 Message: 23577

unsubscribe

[Non-text portions of this message have been removed]

23578. Re: Antenna ideas for TS-520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-23 16:48:35 UTC
From: WimP
Topic: 23553 Message: 23578

Paul,
Ever tought of making your own tuner?
All you need is a coil, that you can wind yourself on a piece of plastic tube, and one or two variable condensers from the junkbox.
Look in the various amateur magazines for examples or go to the site of Frits, PA0FRI, the Dutch Antenna Guru.

But, you have already the coax, make a dipole of 2x20 meters and wire it away in the form of a Z or with more zig-zags to get the lenghts in the air.
That way the feedpoint is between 50 and 75 ohms, and you can get the SWR rather low. By cutting the ends of it you can bring the SWR down.

This can be used temporary from 80 downward. If you are in better shape you can always upgrade to a better solution.
Remember: there is no antenna that does'nt work.

I for one have never ever bought an antenna, and the ones I build were always better than the ones of my buddy, who spend a lot of money on them.
So take courage, hang a piece of wire where you can put it in the air and if we get some propagation, we will meet on the air.

Success, 73, Wim PA0PGA

--- In TS-520_820_530_830@yahoogroups.com, James Allen <jp.paul.allen@...> wrote:
>
> Hi everyone. I'm a bit new to the group but I have enjoyed reading the
> conversations that I have seen so far. I have a TS-520SE that I really want
> to get on the air but sicne it is my first HF radio I do not have an antenna
> for it yet. I don't have a lot of space available as I live on a very small
> lot (about .12 acres or so I think) but I did figure out that I have enough
> of a run around the edge of my roof to fit a 80m dipole or equivilent (not a
> 160 unfortunately though).
>
> The problem I am facing is that I would really like to put up a single
> antenna that I can work all the bands available on my radio from 80m to 10m
> without using an antenna tuner, since at this point even buying supplies to
> build a simple antenna would be difficult to manage. I have heard that the
> pi-network in the TS-520SE can handle varied SWR's before any adverse
> affects, but I have not seen just what this setup is capable of handling.
>
> So here are two questions. First, how effective is the pi-network in the
> 520SE and what are its capabilities as far as tuning into antennas? Second,
> what antenna designs would you suggest to be able to cover the 80m-10m bands
> available on the 520SE (off the top of my head I think they are 80m, 40m,
> 20m, 15m, and 10m. I could be wrong on the 15m though) that I could build
> for as little investment as possible and will be able to hook directly into

> the radio (so no external tuner, I do not have the money for one. If someone
> wants to give me one for free I'm all over that! Even if it needs repair.)
> and have installed on my roof, whether it is around the edge or what. I live
> in a rambler style house that has a footprint of about 50' x 45'.
>
> I've been looking for a while now at different designs but cannot figure out
> for the life of me which one to try. I'm still fairly new to amateur radio.
> I got my liscence about a year and a half ago, but i've been worknig on
> electroncs, computers, and robotics for about 15-20 years or so now. I
> actally bought the 520SE as a fixer-upper, fortunately for me there was not
> much wrong with it in reality. I was able to learn how to tune it into a
> dummy load a friend lent me, now I just need an antenna to start really
> using the thing and learning more about this hobby of mine. I appreciate any
> help you guys can give me!
>
>
> Paul Allen
> KE7TYY
>
>
> [Non-text portions of this message have been removed]
>

23579. Re: IF Protection on TS-530S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-23 17:00:01 UTC
From: larry202br
Topic: 23500 Message: 23579

That looks like a discontinued Panasonic varistor, Try the ERZV05D331 instead. The 03 is the series (size), and the 331 is the Varistor voltage, in this case, 330 V.

--- In TS-520_820_530_830@yahoogroups.com, Yummy Fish <yummy.fish@...> wrote:
>
> A 1983 service bulletin from Kenwood mentions protecting IF unit transistors Q2 and Q7 from high voltage transients by installing a surge suppressor in the AF unit. The bulletin gives a part number for this suppressor:ERZD03DK331. However, my research using Google failed to find any information about what this part is, and how I might find one today. Anybody know what this thing is? The picture in the service bulletin makes it look as if it is a capacitor, but I don't know what type, or what values it might have.
>
> Thanks,
>
> Erik
>
> N7FYO
>
>
>
>
> [Non-text portions of this message have been removed]
>

23580. Re: TS520S TUN position not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-23 16:57:45 UTC
From: jaiden0
Topic: 23388 Message: 23580

Mike,
Thanks for the detailed response. I haven't had a chance to follow these instructions yet, but I wanted you to know this was appreciated. I'll let you know how it turns out.

H

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
...

23581. Re: [TS-520_820_530_830] Re: Antenna ideas for TS-520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-23 17:51:36 UTC
From: Chris and Alex
Topic: 23553 Message: 23581

Have a look at a 1/2 G5RV. It's really easy to make. Get some twin bell wire or speaker wire. When you make the ladder feed, cut the spacers from old plastic margarine tubs or similar, about 2 1/2 inches long with a drilled hole in each end. Use cable ties to attach the wire to the spacers. Separate the twin wires as you build the ladder so the wires don't get tangled. You won't need a balun and you won't need to buy insulators. Just terminate your coax to the end of the ladder feed making sure it's waterproof. Use sea fishing line to tie off the antenna to where ever you're tying it up to. It'll stretch when the wind blows. Don't worry about the influence of the trees, every site is different and the same antenna won't work the same at every site so experiment. Add a bit of wire or take a bit off and see what happens and don't bother with radials ......it's a sort of dipole so radials aren't important.

Just experiment and have fun.

Chris

2009/11/23 WimP <wpenders@...>

>
>
> Paul,
> Ever tought of making your own tuner?
> All you need is a coil, that you can wind yourself on a piece of plastic
> tube, and one or two variable condensers from the junkbox.
> Look in the various amateur magazines for examples or go to the site of
> Frits, PA0FRI, the Dutch Antenna Guru.
>
> But, you have already the coax, make a dipole of 2x20 meters and wire it
> away in the form of a Z or with more zig-zags to get the lenghts in the air.
>
> That way the feedpoint is between 50 and 75 ohms, and you can get the SWR
> rather low. By cutting the ends of it you can bring the SWR down.
>
> This can be used temporary from 80 downward. If you are in better shape you
> can always upgrade to a better solution.
> Remember: there is no antenna that does'nt work.
>
> I for one have never ever bought an antenna, and the ones I build were
> always better than the ones of my buddy, who spend a lot of money on them.
> So take courage, hang a piece of wire where you can put it in the air and
> if we get some propagation, we will meet on the air.
>
> Success, 73, Wim PA0PGA
>

>
> --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> James Allen <jp.paul.allen@...> wrote:
> >
> > Hi everyone. I'm a bit new to the group but I have enjoyed reading the
> > conversations that I have seen so far. I have a TS-520SE that I really
> want
> > to get on the air but sicne it is my first HF radio I do not have an
> antenna
> > for it yet. I don't have a lot of space available as I live on a very
> small
> > lot (about .12 acres or so I think) but I did figure out that I have
> enough
> > of a run around the edge of my roof to fit a 80m dipole or equivilent
> (not a
> > 160 unfortunately though).
> >
> > The problem I am facing is that I would really like to put up a single
> > antenna that I can work all the bands available on my radio from 80m to
> 10m
> > without using an antenna tuner, since at this point even buying supplies
> to
> > build a simple antenna would be difficult to manage. I have heard that
> the
> > pi-network in the TS-520SE can handle varied SWR's before any adverse
> > affects, but I have not seen just what this setup is capable of handling.
> >
> > So here are two questions. First, how effective is the pi-network in the
> > 520SE and what are its capabilities as far as tuning into antennas?
> Second,
> > what antenna designs would you suggest to be able to cover the 80m-10m
> bands
> > available on the 520SE (off the top of my head I think they are 80m, 40m,
> > 20m, 15m, and 10m. I could be wrong on the 15m though) that I could build
> > for as little investment as possible and will be able to hook directly
> into
> > the radio (so no external tuner, I do not have the money for one. If
> someone
> > wants to give me one for free I'm all over that! Even if it needs
> repair.)
> > and have installed on my roof, whether it is around the edge or what. I
> live
> > in a rambler style house that has a footprint of about 50' x 45'.
> >
> > I've been looking for a while now at different designs but cannot figure
> out
> > for the life of me which one to try. I'm still fairly new to amateur
> radio.
> > I got my liscence about a year and a half ago, but i've been worknig on
> > electroncs, computers, and robotics for about 15-20 years or so now. I

> > actally bought the 520SE as a fixer-upper, fortunately for me there was
> not
> > much wrong with it in reality. I was able to learn how to tune it into a
> > dummy load a friend lent me, now I just need an antenna to start really
> > using the thing and learning more about this hobby of mine. I appreciate
> any
> > help you guys can give me!
> >
> >
> > Paul Allen
> > KE7TYY
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>

[Non-text portions of this message have been removed]

23582. Re: TS-530S FOR SALE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-23 19:22:32 UTC
From: aschichler
Topic: 23560 Message: 23582

I also forgot to mention that the TS-530S has two connectors that were added on the back. One for "IF Out" that can be used to connect to an SM-220 with Pan Adapter or similar, and also an output for an external receiver.
In addition to those, it has an "audio in" line connected to the unused (pin 7) pin of the "Remote" Din connector on the back. I used that for PSK-31, but it can be used for SSTV, RTTY, phone patch, or anything needing external audio-in.

Al, WA2AS

--- In TS-520_820_530_830@yahoogroups.com, "aschichler" <aschichler@...> wrote:
>
> I have a very nice TS-530S that I have decided to sell. It is very clean, in very nice condition, and has the CW filter installed. Everything works 100%.
> It has been aligned within the last 2 years and everything is still right on. Also, all controls and switches are clean and work perfectly. Cosmetically about a 9 out of 10 (very slight scratches here and there), functionally a 10 out of 10. I have pictures I can send to anyone interested. If the buyer isn't 100% satisfied, I will return the full cost of the radio (minus shipping).
> Also, if someone is not interested in the CW filter, I am willing to remove it for $50 off the total price.
> Asking $375 plus shipping.
>
> Thanks,
> Al, WA2AS
>

23583. Re: TS-530S FOR SALE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-23 21:19:33 UTC
From: kj4aur
Topic: 23560 Message: 23583

Al, very curious as to what you did for the IF out, if perhaps you used the same location as I (see Files section, SM-220 BS-8 TS-530)

73 - Nathan / KJ4AUR

--- In TS-520_820_530_830@yahoogroups.com, "aschichler" <aschichler@...> wrote:
>
> I also forgot to mention that the TS-530S has two connectors that were added on the back. One for "IF Out" that can be used to connect to an SM-220 with Pan Adapter or similar, and also an output for an external receiver.
> In addition to those, it has an "audio in" line connected to the unused (pin 7) pin of the "Remote" Din connector on the back. I used that for PSK-31, but it can be used for SSTV, RTTY, phone patch, or anything needing external audio-in.
>
> Al, WA2AS
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "aschichler" <aschichler@> wrote:
> >
> > I have a very nice TS-530S that I have decided to sell. It is very clean, in very nice condition, and has the CW filter installed. Everything works 100%.
> > It has been aligned within the last 2 years and everything is still right on. Also, all controls and switches are clean and work perfectly. Cosmetically about a 9 out of 10 (very slight scratches here and there), functionally a 10 out of 10. I have pictures I can send to anyone interested. If the buyer isn't 100% satisfied, I will return the full cost of the radio (minus shipping).
> > Also, if someone is not interested in the CW filter, I am willing to remove it for $50 off the total price.
> > Asking $375 plus shipping.
> >
> > Thanks,
> > Al, WA2AS
> >
>

23584. WTB: MC-10 Microphone

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-23 22:25:30 UTC
From: Howard Weinstein
Topic: 23560 Message: 23584

Hi TS-520s etc Gang,

I would like to obtain an original MC-10 Hand Microphone originally available for the TS-520. It is unique in that it's output impedance is 50k ohms.

Tnx es 72/73 de Howie K3HW

[Non-text portions of this message have been removed]

23585. Searching for Info !! (Continued)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-23 22:22:58 UTC
From: Music Maker
Topic: 23480 Message: 23585

..
.
Hello All.

May I firstly thank so many who have either posted here, Emailed me, or written in my Web Site Guest Book.

I have taken all the suggestions and corrections on board, and (hopefully !) incorporated them into the Pages.

You have all been so helpful - Thank you !!

I have now added quite a lot of newer items to the pages, which are a 'Dedicated' collation of everything I can find on the TS 520 Series. Today I added all the 'guff' on the SW 2000 Power and SWR meter - as I have just bought one on Ebay, for 40 dollars !! A video is included there as well, for good measure.

The pages are at The Kenwood TS 520 Pages <http://www.john4music.tv/27.html> if anyone can think of anything I have omitted, I would appreciate their input.

On to other things ..... Kenwood speaker Mod .....

I also bought an SP 23 speaker over the weekend. Very good, but as the owner of a fine pair of ears (I am a pro musician!), The sounds were very 'tinny'. Hey Ho - I realised that everything off the 'back' of the speaker was bouncing around inside that big square tin, with nowhere to go.
Necessity is the Mother of Invention, and as I had paid quite a lot for this Kenwood tin with a speaker, I decided to 'invent' !

Firstly, I drilled (neatly) about 20 X 1/4 inch holes in the back. (no-one sees that!), and then I packed the whole of the inside with corrugated cardboard, rolled up so that the holes went from front to back, and the same length as the inside of the speaker box. I carved out the shape of the back of the speaker - (Its called a 'baffle', guys, just the same as a vehicle silencer (muffler US!), and then sealed the tin down with the screws. Wow !!! What a difference! I can really recommend this as a totally 'non-destructive 'mod' to any Op using one of these empty speaker cans. Cheap and quick to do too. !!! I suppose you could fill the space with acoustic wadding, or similar, but I didn't think of that until now !!

I am still hunting for a VFO 230 and a SM 220 if anyone has one .... Even at the terrible cost of postage to the UK from US !!!

Finally .... Congratulations are in order! .... last Saturday, I was re-issued with my old callsign that I havn't used since 1968 (originally issued in 1955!), so old 'Blue Eyes' will soon be putting a signal down your wires as G3OBU .... Just got to get some of my own wire into the air first!

73's de G3OBU, Op John

--- In TS-520_820_530_830@yahoogroups.com, "David" <sootydave@...> wrote:
>
> John.
> Nice job on the site. you may want to add the details found here at the following link.
>
> http://www.k4eaa.com/types.html
>
> I have owned my TS -520s for many years, she has never missed a beat, original tubes.
> Good luck in ur hunt for info.
> 73
> Dave kg4uxr
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Music Maker" jhaddleton@ wrote:
> >
> >
> >
> >
> > Hello All,
> >
> > As most who follow my posts know, I am just setting myself up a new
> > station, after an absence from Amateur Radio of about 40 years.
> >
> > Once I had decided to buy a Transciever and the model (I am a pensioner
> > on a low income, so 'bang per Buck' was a major consideration!), I
> > started scouring the internet to glean as much knowledge about my chosen
> > Transciever (The TS 520 SE), and its accessories.
> >
> > Pictures, Specifications, and articles are in many places on the
> > internet, and during my searches, I was also pleased to 'discover' this
> > Group!, but I had a little 'brainwave' ..... (and it was painful !!)
> > ..HI !
> >
> > I decided to collate all the information I have gathered so far,
> > specific to the TS 520 all in one place for future 'searchers' and would
> > like to ask for Members to have a look at what I have done so far,

and
> > if they know of further articles on Mods, repairs, or information
that
> > could or should be included, that is not there, would they please
point
> > me to it?
> >
> > I would also like to hear constructive critique on what I have done
so
> > far.
> >
> > Perhaps a member who (like me!) has time on their hands would like
to
> > do the same for their model of Kenwood Transceiver, and in the same
> > format, and I would be happy to host those pages.
> >
> > My Email is.... jhaddleton@ <mailto:jhaddleton@
> >
> > The web page for the TS 520 is H E R E
> > <http://www.john4music.tv/27.html>
> >
> > Kindest Regards and 73's to all,
> >
> > John
> >
> >
.....\
\
> >
.....\
\
> > .....
> >
> > I was Born with nothing ..... 74 years leter, I still have most of
it
> > left !
> >
> > Support the Arts ..... Feed a Musician !
> >
> > I am not a 'HAM' ! ..... I am a 'Licenced Radio Amateur'.
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

[Non-text portions of this message have been removed]

23586. Re: [TS-520_820_530_830] WTB: MC-10 Microphone

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-23 23:22:41 UTC
From: Dave ve3wej
Topic: 23560 Message: 23586

fyi so is a mc35 kenwood handmike if you can find one of those.. as well as a mc-50 desk mike

----- Original Message -----
From: "Howard Weinstein" <k3hw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, November 23, 2009 5:25 PM
Subject: [TS-520_820_530_830] WTB: MC-10 Microphone

Hi TS-520s etc Gang,

I would like to obtain an original MC-10 Hand Microphone originally available for the TS-520. It is unique in that it's output impedance is 50k ohms.

Tnx es 72/73 de Howie K3HW

[Non-text portions of this message have been removed]

Yahoo! Groups Links

23587. Re: TS-530S FOR SALE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-24 00:02:10 UTC
From: aschichler
Topic: 23560 Message: 23587

I don't remember off the top of my head, but I think there was a section in either the instruction manual or the service manual that told you where to put it. Or I might have used a TS-830S (which has an IF out jack) service manual as a reference, and put it in a similar location in the IF circuit. I can look up more info on it when I have time.

73,
Al

--- In TS-520_820_530_830@yahoogroups.com, "kj4aur" <kj4aur@...> wrote:
>
> Al, very curious as to what you did for the IF out, if perhaps you used the same location as I (see Files section, SM-220 BS-8 TS-530)
>
> 73 - Nathan / KJ4AUR
>
> --- In TS-520_820_530_830@yahoogroups.com, "aschichler" <aschichler@> wrote:
> >
> > I also forgot to mention that the TS-530S has two connectors that were added on the back. One for "IF Out" that can be used to connect to an SM-220 with Pan Adapter or similar, and also an output for an external receiver.
> > In addition to those, it has an "audio in" line connected to the unused (pin 7) pin of the "Remote" Din connector on the back. I used that for PSK-31, but it can be used for SSTV, RTTY, phone patch, or anything needing external audio-in.
> >
> > Al, WA2AS
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "aschichler" <aschichler@> wrote:
> > >
> > > I have a very nice TS-530S that I have decided to sell. It is very clean, in very nice condition, and has the CW filter installed. Everything works 100%.
> > > It has been aligned within the last 2 years and everything is still right on. Also, all controls and switches are clean and work perfectly. Cosmetically about a 9 out of 10 (very slight scratches here and there), functionally a 10 out of 10. I have pictures I can send to anyone interested. If the buyer isn't 100% satisfied, I will return the full cost of the radio (minus shipping).
> > > Also, if someone is not interested in the CW filter, I am willing to remove it for $50 off the total price.
> > > Asking $375 plus shipping.
> > >
> > > Thanks,
> > > Al, WA2AS
> > >
> >
>

23588. Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-24 09:39:44 UTC
From: k5lcl@sbcglobal.net
Topic: 23566 Message: 23588

Eureka!!!

I would have never found the relay without your description! I pulled it out, and ran some VERY fine sandpaper LIGHTLY across the contacts, then sprayed it with DeOxit, and used compressed air to blow it dry. I put it all back together and it is working like a charm right now. I'll have to see how long it lasts, but so far, it is fixed.

Thank you for all the help!!
73 de K5LCL

----- Original Message -----
From: Dennis Windle
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, November 23, 2009 8:40 AM
Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

RL1 and it is somewhat hidden under a small metal cover. With the bottom cover off and with the back of the 820 facing you look to the rigt rear corner (close to where the antenna SO239 is mounted) and you will see under the metal cover. You will have to remove the screws holding the cover in place to gain access to the relay to pull it out of the socket.

D.Windle
----- Original Message -----
From: k5lcl@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, November 23, 2009 12:54 AM
Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

That's what I'm guessing. Any idea which relay it might be?
----- Original Message -----
From: Dennis Windle
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, November 22, 2009 10:54 PM
Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

Sounds like the relay contacts, try cleaning them. The receive signal passes through a set of NC (normally closed) relay contacts which open when you key up then close on key down so if they are dirty or corroded or pitted you would get these symptoms.
D.Windle
----- Original Message -----
From: k5lcl@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, November 22, 2009 6:22 PM
Subject: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

Any ideas on what would make the TS-820 volume drop on receive intermittently? It seems to happen more often just after I finish transmitting, but it will do it while just receiving

also.
It's not the volume reduction associated with propagation, (I can tell the difference), but something internal to the radio. The volume will drop to about 1/2 level, then just come back up to normal for no apparent reason.

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[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23589. Re: [TS-520_820_530_830] Re: TS-820 receive volume, intermittent drop

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-24 09:45:29 UTC
From: k5lcl@sbcglobal.net
Topic: 23566 Message: 23589

Thank you!! Found it, cleaned it and it is now working! Thanks for the help!!
73 de K5LCL

----- Original Message -----
From: w5rkl
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, November 23, 2009 2:42 AM
Subject: [TS-520_820_530_830] Re: TS-820 receive volume, intermittent drop

The relay in question is located on the bottom, between the final amplifier pc board and the rear panel. Remove the small metal enclosure and pull the relay from it's socket.

Pry the plastic cover from the relay using a thin jewelers flat blade screw driver.

Use contact cleaner applied to a piece of bond paper, slide paper between contacts until the paper no longer turns black.

Use canned air to remove excessive contact cleaner and any debris remaining after cleaning. Install plastic cover, plug relay into it's socket, and check for proper operation.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, <k5lcl@...> wrote:
>
> That's what I'm guessing. Any idea which relay it might be?
> ----- Original Message -----
> From: Dennis Windle
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, November 22, 2009 10:54 PM
> Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop
>
>
>
> Sounds like the relay contacts, try cleaning them. The receive signal passes through a set of NC (normally closed) relay contacts which open when you key up then close on key down so if they are dirty or corroded or pitted you would get these symptoms.
> D.Windle
> ----- Original Message -----
> From: k5lcl@...
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, November 22, 2009 6:22 PM
> Subject: [TS-520_820_530_830] TS-820 receive volume, intermittent drop
>
> Any ideas on what would make the TS-820 volume drop on receive intermittently? It seems to happen more often just after I finish transmitting, but it will do it while just receiving also.

> It's not the volume reduction associated with propagation, (I can tell the difference), but something internal to the radio. The volume will drop to about 1/2 level, then just come back up to normal for no apparent reason.
>
> [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

23590. Re: Antenna ideas for TS-520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-24 14:23:56 UTC
From: Noodle10536
Topic: 23553 Message: 23590

FWIW, I have a 130' wire dipole fed with 450 ohm ladder line all the way into my shack that then connects to a Johnson Viking Matchbox. I have an A - B switch with the A side connected to the Matchbox (antenna) and the B side connected into a dummy load. I tune my TS-830s into the dummy load and then switch back over to the antenna and tune the match box. It works well for me, a novice, and I get consistently good audio reports. I also have a small yard and used two trees to support the antenna. It is up about 25' in the front and then the ground slopes off and it is about 50' in the rear. Mine is a straight run and is fixed at one end and has a sailboat pulley, rope and sash weights at the floating end. Good luck, Peter KC2RBX

23591. Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-24 14:38:42 UTC
From: Dennis Windle
Topic: 23566 Message: 23591

Your welcome, that's what the group is here for !! For future reference though sandpaper is not really a good choice as it can actually damage the contacts by removing part of the surface material and then the contacts cannot mate together for a good connection. Use a good contact cleaner like Deoxit 5 and then take a business card or a dollar bill "a $20 if you have one these days " and slide it through the contacts a few times while they are closed.

D.Windle

----- Original Message -----
From: k5lcl@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 24, 2009 4:39 AM
Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

Eureka!!!

I would have never found the relay without your description! I pulled it out, and ran some VERY fine sandpaper LIGHTLY across the contacts, then sprayed it with DeOxit, and used compressed air to blow it dry. I put it all back together and it is working like a charm right now. I'll have to see how long it lasts, but so far, it is fixed.

Thank you for all the help!!
73 de K5LCL

----- Original Message -----
From: Dennis Windle
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, November 23, 2009 8:40 AM
Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

RL1 and it is somewhat hidden under a small metal cover. With the bottom cover off and with the back of the 820 facing you look to the rigt rear corner (close to where the antenna SO239 is mounted) and you will see under the metal cover. You will have to remove the screws holding the cover in place to gain access to the relay to pull it out of the socket.

D.Windle
----- Original Message -----
From: k5lcl@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, November 23, 2009 12:54 AM
Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

That's what I'm guessing. Any idea which relay it might be?
----- Original Message -----
From: Dennis Windle
To: TS-520_820_530_830@yahoogroups.com

Sent: Sunday, November 22, 2009 10:54 PM
Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

Sounds like the relay contacts, try cleaning them. The receive signal passes through a set of NC (normally closed) relay contacts which open when you key up then close on key down so if they are dirty or corroded or pitted you would get these symptoms.
D.Windle
----- Original Message -----
From: k5lcl@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, November 22, 2009 6:22 PM
Subject: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

Any ideas on what would make the TS-820 volume drop on receive intermittently? It seems to happen more often just after I finish transmitting, but it will do it while just receiving also.
It's not the volume reduction associated with propagation, (I can tell the difference), but something internal to the radio. The volume will drop to about 1/2 level, then just come back up to normal for no apparent reason.

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23592. Power Transformer wireing to Rectifier board TS-820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-24 03:46:35 UTC
From: trippkj4bkd
Topic: 23592 Message: 23592

Hello,

I have recently rebuilt my rectifier baord and I know I should have taken pictures of the wireing before I unsoldered things. I did make a quick sketch but there is one part that I did not draw very accurat.

The 800v from the PWR TX to the rectifier board goes to the corner pin marked 800v on the rectifier board? The 800v from the HV board goes to the second 800v pin marked 800v on the rectifier board as well as the red wire from the high voltage cap also going to the second pin marked 800v on the rectifier board? At least thats what it appears to me looking at the wireing schematic. Please advise.

Tripp
KJ4BKD

23593. Re: TS 570 versions

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-24 06:26:35 UTC
From: k4jdp
Topic: 23593 Message: 23593

The problems I read about this rig was for RTTY operation, not CW or SSB. There's also no way to monitor during FSK mode.

73's de,
K4JDP-John

23594. Re: Power Transformer wireing to Rectifier board TS-820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-24 16:30:57 UTC
From: w5rkl
Topic: 23592 Message: 23594

The TS-820/820S power transformer's high voltage secondary winding has 3 terminals:

800 - connects to the Rectifier Unit board's "AC800" terminal

400 - not conneted

0 - connects to the junction of C21 (positive terminal) and C22 (negative terminal)

The 820's high resolution schematic shows this. The service manual schematic, when zoomed into, is blurry but the 820 hi-res schematic is clear.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "trippkj4bkd" <thomasenglish3@...> wrote:
>
> Hello,
>
> I have recently rebuilt my rectifier baord and I know I should have taken pictures of the wireing before I unsoldered things. I did make a quick sketch but there is one part that I did not draw very accurat.
>
> The 800v from the PWR TX to the rectifier board goes to the corner pin marked 800v on the rectifier board? The 800v from the HV board goes to the second 800v pin marked 800v on the rectifier board as well as the red wire from the high voltage cap also going to the second pin marked 800v on the rectifier board? At least thats what it appears to me looking at the wireing schematic. Please advise.
>
> Tripp
> KJ4BKD
>

23595. RE: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-24 17:43:09 UTC
From: Dick Merryman
Topic: 23566 Message: 23595

Its good to have the radio working again, isn't it? You need to remember this URL: www.k4eaa.com as that is where you can get a new relay. Yours will probably not last if you sanded the contacts because the sandpaper cuts through the thin plating on the contacts and they corrode rapidly.

-Dick-
N3XRU

_____

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of k5lcl@...
Sent: Tuesday, November 24, 2009 1:40 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

Eureka!!!

I would have never found the relay without your description! I pulled it out, and ran some VERY fine sandpaper LIGHTLY across the contacts, then sprayed it with DeOxit, and used compressed air to blow it dry. I put it all back together and it is working like a charm right now. I'll have to see how long it lasts, but so far, it is fixed.

Thank you for all the help!!
73 de K5LCL

----- Original Message -----
From: Dennis Windle
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
Sent: Monday, November 23, 2009 8:40 AM
Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

RL1 and it is somewhat hidden under a small metal cover. With the bottom cover off and with the back of the 820 facing you look to the rigt rear corner (close to where the antenna SO239 is mounted) and you will see under the metal cover. You will have to remove the screws holding the cover in place to gain access to the relay to pull it out of the socket.

D.Windle
----- Original Message -----
From: k5lcl@sbcglobal. <mailto:k5lcl%40sbcglobal.net> net
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
Sent: Monday, November 23, 2009 12:54 AM
Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

That's what I'm guessing. Any idea which relay it might be?
----- Original Message -----
From: Dennis Windle
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
Sent: Sunday, November 22, 2009 10:54 PM
Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

Sounds like the relay contacts, try cleaning them. The receive signal passes through a set of NC (normally closed) relay contacts which open when you key up then close on key down so if they are dirty or corroded or pitted you would get these symptoms.
D.Windle
----- Original Message -----
From: k5lcl@sbcglobal. <mailto:k5lcl%40sbcglobal.net> net
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
Sent: Sunday, November 22, 2009 6:22 PM
Subject: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

Any ideas on what would make the TS-820 volume drop on receive intermittently? It seems to happen more often just after I finish transmitting, but it will do it while just receiving also.
It's not the volume reduction associated with propagation, (I can tell the difference), but something internal to the radio. The volume will drop to about 1/2 level, then just come back up to normal for no apparent reason.

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23596. Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-24 19:16:29 UTC
From: k5lcl@sbcglobal.net
Topic: 23566 Message: 23596

Thanks; I just BARELY touched the contacts with the sandpaper, only moving it a couple of inches, for 2 or 3 strokes. I could not see any marks or discoloration on the sandpaper when I finished. Hopefully I did not remove any metal, but time will tell I guess. So far, so good!
Thanks again!!
73 de K5LCL
----- Original Message -----
From: Dennis Windle
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 24, 2009 8:38 AM
Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

Your welcome, that's what the group is here for !! For future reference though sandpaper is not really a good choice as it can actually damage the contacts by removing part of the surface material and then the contacts cannot mate together for a good connection. Use a good contact cleaner like Deoxit 5 and then take a business card or a dollar bill "a $20 if you have one these days " and slide it through the contacts a few times while they are closed.

D.Windle

----- Original Message -----
From: k5lcl@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 24, 2009 4:39 AM
Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

Eureka!!!

I would have never found the relay without your description! I pulled it out, and ran some VERY fine sandpaper LIGHTLY across the contacts, then sprayed it with DeOxit, and used compressed air to blow it dry. I put it all back together and it is working like a charm right now. I'll have to see how long it lasts, but so far, it is fixed.

Thank you for all the help!!
73 de K5LCL

----- Original Message -----
From: Dennis Windle
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, November 23, 2009 8:40 AM
Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

RL1 and it is somewhat hidden under a small metal cover. With the bottom cover off and with the back of the 820 facing you look to the rigt rear corner (close to where the antenna SO239 is mounted) and you will see under the metal cover. You will have to remove the screws holding the cover in place to gain access to the relay to pull it out of the socket.

D.Windle
----- Original Message -----
From: k5lcl@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, November 23, 2009 12:54 AM
Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

That's what I'm guessing. Any idea which relay it might be?
----- Original Message -----
From: Dennis Windle
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, November 22, 2009 10:54 PM
Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

Sounds like the relay contacts, try cleaning them. The receive signal passes through a set of NC (normally closed) relay contacts which open when you key up then close on key down so if they are dirty or corroded or pitted you would get these symptoms.
D.Windle
----- Original Message -----
From: k5lcl@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, November 22, 2009 6:22 PM
Subject: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

Any ideas on what would make the TS-820 volume drop on receive intermittently? It seems to happen more often just after I finish transmitting, but it will do it while just receiving also.
It's not the volume reduction associated with propagation, (I can tell the difference), but something internal to the radio. The volume will drop to about 1/2 level, then just come back up to normal for no apparent reason.

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23597. Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-24 19:12:22 UTC
From: k5lcl@sbcglobal.net
Topic: 23566 Message: 23597

Thank you; I have his website bookmarked, and contacted him before, I found and fixed the relay, with this groups assistance.
I used the sandpaper VERY LIGHTLY, with just 2 or 3 strokes of about an inch each stroke. Then I cleaned it with DeOxit and compressed air. I'll have to see how long it lasts, but I can't imagine I removed any real amount of metal. The sandpaper showed no markings or color on it. Hopefully I used it light enough to just remove the carbon.
Thanks again 73 de K5LCL

----- Original Message -----
From: Dick Merryman
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 24, 2009 11:43 AM
Subject: RE: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

Its good to have the radio working again, isn't it? You need to remember this URL: www.k4eaa.com as that is where you can get a new relay. Yours will probably not last if you sanded the contacts because the sandpaper cuts through the thin plating on the contacts and they corrode rapidly.

-Dick-
N3XRU

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of k5lcl@...
Sent: Tuesday, November 24, 2009 1:40 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

Eureka!!!

I would have never found the relay without your description! I pulled it out, and ran some VERY fine sandpaper LIGHTLY across the contacts, then sprayed it with DeOxit, and used compressed air to blow it dry. I put it all back together and it is working like a charm right now. I'll have to see how long it lasts, but so far, it is fixed.

Thank you for all the help!!
73 de K5LCL

----- Original Message -----
From: Dennis Windle
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
Sent: Monday, November 23, 2009 8:40 AM
Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

RL1 and it is somewhat hidden under a small metal cover. With the bottom cover off and with the back of the 820 facing you look to the rigt rear corner (close to where the antenna SO239 is mounted) and you will see under the metal cover. You will have to remove the screws holding the cover in place to gain access to the relay to pull it out of the socket.

D.Windle
----- Original Message -----
From: k5lcl@sbcglobal. <mailto:k5lcl%40sbcglobal.net> net
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
Sent: Monday, November 23, 2009 12:54 AM
Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

That's what I'm guessing. Any idea which relay it might be?
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From: Dennis Windle
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
Sent: Sunday, November 22, 2009 10:54 PM
Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

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D.Windle
----- Original Message -----
From: k5lcl@sbcglobal. <mailto:k5lcl%40sbcglobal.net> net
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830@yahoogroups.com
Sent: Sunday, November 22, 2009 6:22 PM
Subject: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

Any ideas on what would make the TS-820 volume drop on receive intermittently? It seems to happen more often just after I finish transmitting, but it will do it while just receiving also.
It's not the volume reduction associated with propagation, (I can tell the difference), but something internal to the radio. The volume will drop to about 1/2 level, then just come back up to normal for no apparent reason.

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23598. Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-24 19:31:16 UTC
From: Charlie , W5COV
Topic: 23566 Message: 23598

The reason to avoid sandpaper isn't so much about removing metal , but rather , no matter how careful you are or what grit you use , it leaves scratches in the surface , which leads to a nice place for an arc .

Charlie , W5COV

[Non-text portions of this message have been removed]

23599. Re: TS-820 receive volume, intermittent drop

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-24 20:25:44 UTC
From: w5rkl
Topic: 23566 Message: 23599

Dick,

The relay on Ken's website is for the TS-830 not the TS-820.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Dick Merryman" <dicko@...> wrote:
>
> Its good to have the radio working again, isn't it? You need to remember
> this URL: www.k4eaa.com as that is where you can get a new relay. Yours
> will probably not last if you sanded the contacts because the sandpaper cuts
> through the thin plating on the contacts and they corrode rapidly.
>
> -Dick-
> N3XRU
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of k5lcl@...
> Sent: Tuesday, November 24, 2009 1:40 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop
>
>
>
>
>
> Eureka!!!
>
> I would have never found the relay without your description! I pulled it
> out, and ran some VERY fine sandpaper LIGHTLY across the contacts, then
> sprayed it with DeOxit, and used compressed air to blow it dry. I put it all
> back together and it is working like a charm right now. I'll have to see how
> long it lasts, but so far, it is fixed.
>
> Thank you for all the help!!
> 73 de K5LCL
>
> ----- Original Message -----
> From: Dennis Windle
> To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> 830@yahoogroups.com
> Sent: Monday, November 23, 2009 8:40 AM
> Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop
>

> RL1 and it is somewhat hidden under a small metal cover. With the bottom
> cover off and with the back of the 820 facing you look to the rigt rear
> corner (close to where the antenna SO239 is mounted) and you will see under
> the metal cover. You will have to remove the screws holding the cover in
> place to gain access to the relay to pull it out of the socket.
>
> D.Windle
> ----- Original Message -----
> From: k5lcl@sbcglobal. <mailto:k5lcl%40sbcglobal.net> net
> To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> 830@yahoogroups.com
> Sent: Monday, November 23, 2009 12:54 AM
> Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop
>
> That's what I'm guessing. Any idea which relay it might be?
> ----- Original Message -----
> From: Dennis Windle
> To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> 830@yahoogroups.com
> Sent: Sunday, November 22, 2009 10:54 PM
> Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop
>
> Sounds like the relay contacts, try cleaning them. The receive signal passes
> through a set of NC (normally closed) relay contacts which open when you key
> up then close on key down so if they are dirty or corroded or pitted you
> would get these symptoms.
> D.Windle
> ----- Original Message -----
> From: k5lcl@sbcglobal. <mailto:k5lcl%40sbcglobal.net> net
> To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> 830@yahoogroups.com
> Sent: Sunday, November 22, 2009 6:22 PM
> Subject: [TS-520_820_530_830] TS-820 receive volume, intermittent drop
>
> Any ideas on what would make the TS-820 volume drop on receive
> intermittently? It seems to happen more often just after I finish
> transmitting, but it will do it while just receiving also.
> It's not the volume reduction associated with propagation, (I can tell the
> difference), but something internal to the radio. The volume will drop to
> about 1/2 level, then just come back up to normal for no apparent reason.
>
> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
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>
> [Non-text portions of this message have been removed]
>

23600. RE: [TS-520_820_530_830] Re: TS-820 receive volume, intermittent drop

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-24 20:36:22 UTC
From: Dick Merryman
Topic: 23566 Message: 23600

Oops, sorry.

-Dick-

_____

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
Sent: Tuesday, November 24, 2009 12:26 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS-820 receive volume, intermittent drop

Dick,

The relay on Ken's website is for the TS-830 not the TS-820.

73s
Mike W5RKL

--- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com, "Dick Merryman" <dicko@...> wrote:
>
> Its good to have the radio working again, isn't it? You need to remember
> this URL: www.k4eaa.com as that is where you can get a new relay. Yours
> will probably not last if you sanded the contacts because the sandpaper
cuts
> through the thin plating on the contacts and they corrode rapidly.
>
> -Dick-
> N3XRU
>
> _____
>
> From: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
> [mailto:TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com] On Behalf Of k5lcl@...
> Sent: Tuesday, November 24, 2009 1:40 AM
> To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop
>
>
>
>

> Eureka!!!
>
> I would have never found the relay without your description! I pulled it
> out, and ran some VERY fine sandpaper LIGHTLY across the contacts, then
> sprayed it with DeOxit, and used compressed air to blow it dry. I put it
all
> back together and it is working like a charm right now. I'll have to see
how
> long it lasts, but so far, it is fixed.
>
> Thank you for all the help!!
> 73 de K5LCL
>
> ----- Original Message -----
> From: Dennis Windle
> To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> 830@yahoogroups. <mailto:830%40yahoogroups.com> com
> Sent: Monday, November 23, 2009 8:40 AM
> Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop
>
> RL1 and it is somewhat hidden under a small metal cover. With the bottom
> cover off and with the back of the 820 facing you look to the rigt rear
> corner (close to where the antenna SO239 is mounted) and you will see
under
> the metal cover. You will have to remove the screws holding the cover in
> place to gain access to the relay to pull it out of the socket.
>
> D.Windle
> ----- Original Message -----
> From: k5lcl@sbcglobal. <mailto:k5lcl%40sbcglobal.net> net
> To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> 830@yahoogroups. <mailto:830%40yahoogroups.com> com
> Sent: Monday, November 23, 2009 12:54 AM
> Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop
>
> That's what I'm guessing. Any idea which relay it might be?
> ----- Original Message -----
> From: Dennis Windle
> To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> 830@yahoogroups. <mailto:830%40yahoogroups.com> com
> Sent: Sunday, November 22, 2009 10:54 PM
> Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop
>
> Sounds like the relay contacts, try cleaning them. The receive signal
passes
> through a set of NC (normally closed) relay contacts which open when you
key
> up then close on key down so if they are dirty or corroded or pitted you
> would get these symptoms.
> D.Windle

> ----- Original Message -----
> From: k5lcl@sbcglobal. <mailto:k5lcl%40sbcglobal.net> net
> To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> 830@yahoogroups. <mailto:830%40yahoogroups.com> com
> Sent: Sunday, November 22, 2009 6:22 PM
> Subject: [TS-520_820_530_830] TS-820 receive volume, intermittent drop
>
> Any ideas on what would make the TS-820 volume drop on receive
> intermittently? It seems to happen more often just after I finish
> transmitting, but it will do it while just receiving also.
> It's not the volume reduction associated with propagation, (I can tell the
> difference), but something internal to the radio. The volume will drop to
> about 1/2 level, then just come back up to normal for no apparent reason.
>
> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

23601. Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-24 21:13:52 UTC
From: k5lcl@sbcglobal.net
Topic: 23566 Message: 23601

Oh!! That makes sense! Then the arc leads to carbon buildup, which causes the problem to re-appear. Oh well, I guess I can always order a new relay, now that I know it WAS the problem, once it starts causing me problems again.
Thank!
73 de K5LCL

----- Original Message -----
From: Charlie , W5COV
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 24, 2009 1:31 PM
Subject: Re: [TS-520_820_530_830] TS-820 receive volume, intermittent drop

The reason to avoid sandpaper isn't so much about removing metal , but rather , no matter how careful you are or what grit you use , it leaves scratches in the surface , which leads to a nice place for an arc .

Charlie , W5COV

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23602. Re: [TS-520_820_530_830] Re: TS-820 receive volume, intermittent drop

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-24 21:00:15 UTC
From: Gene Henderson
Topic: 23566 Message: 23602

Dick
I purchased new relays for the TS 820 from Kens Electronics. Gene WB9HLA

401013-S term 12VDC replace MH4P-12VDC in T599D, TS520S, TS820 $18,00

http://www.kenselectronics.com/lists/relays.htm

[Non-text portions of this message have been removed]

23603. Weak Driver Tube on my TS-520?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-24 23:50:14 UTC
From: dllewiszz
Topic: 23603 Message: 23603

Hi,

This is long. Please bear with me.

After far too many years of inactivity, I picked up a TS-520 on eBay so I could get back on the air in a frugal way. The rig I purchased didn't have a mic with it (that's pertinent later).

When it arrived, it wouldn't transmit at all. The idle current of 60ma was normal, but there was no ALC indication and no output in any mode at the SO-239. On a shortwave receiver sitting next to the TS-520, I could hear the carrier being generated on the correct VFO freq, so I figured the oscillator was doing its thing. The TS-520 receiver was working fine, and I opened it up to clean all the scratchy wafer switches and to check that the tubes were seated firmly. Still no xmit. After reading the doc here about how to do a quick check on the finals, I followed the instructions and increased the bias/idle current substantially for 2 or 3 seconds, returning it quickly to 60ma. Voila! She started transmitting! The rig tuned normally, so I plugged a key in and even worked a little CW. What did I jumpstart?

When tuning, or keying CW, I saw plate current at around 220 - 240ma, HV in the 800 ☐ 900v range, and an RF reading about 2/3 across the meter scale. I also now noticed ALC in the normal range when the Carrier control was a little past the mid-point on 40 meters, but on 20 meters I hardly saw any ALC at all, although the rig was indeed transmitting with normal plate current. I no longer own a good dummy load, so I'm transmitting into a plain center-fed 40/20 fan dipole that has a surprisingly low SWR on both bands.

I found an MC-50 mic on eBay, and when it arrived I was surprised at what I found. But this may help determine if there's a real problem here. I was surprised that I have to crank the mic gain up pretty high to get any RF output when I speak ☐ even at 3 inches from the mic. Unless I crank it to 3 o'clock, I get very, very little meter movement (RF, or IP, or ALC). The ALC meter action seems a little unusual, in that it requires a pretty strong audio level to make it move, and then it jumps past the normal ALC range rather quickly. That's on 40m. On 20m, I see no ALC ☐ or just a tiny bit of movement when I drive it hard, but again, the rig is indeed transmitting on both bands. I worked plenty of guys last weekend during the contest, and the audio reports are good, though I don't know if it sounds as good as this mic/rig combination usually sounds. When I drive the mic at 3 o'clock and talk pretty close, the RF reading is about like I'd expect, peaking around one-third to mid-scale, which is of course less than the reading seen with a dead carrier in CW mode.

Of course, there's always the possibility the mic is defective. I can't be 100% certain, but I tried this: Killing the SG switch, I can listen to my very weak signal on the co-located shortwave receiver ☐ and I can hear my audio with the mic gain very low, say, around 8 or 9 o'clock. That makes me think the mic is OK.

So the question is whether I have a weak driver tube causing this, or is there something else I need to check? With the finals reading the way they do, I tend to think they're OK.

Thanks for reading this far and offering suggestions on next steps.

73,

Dave WA4FXT

23604. FRAUDULANT PURCHASER- HOLY COW!!!!!!!!!!!!!!!!!!!!!!!!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-25 05:03:20 UTC
From: ve3pie
Topic: 23604 Message: 23604

I RESPECTFULLY DEMAND THIS MESSAGE BE POSTED IN MY DEFENCE!!
IF I CAN BE ACCUSED ALL OVER THIS GROUP, THEN I SHOULD BE ALLOWED TO DEFEND MYSELF TO THE ENTIRE GROUP!
MY NAME IS DR.FRED WEKSBERG. I AM THE ACCUSED!! My call is VE3PIE and I live in Thornhill. I am a very well known dermatologist in the city of Toronto and am connected with North York General Hospital. I went through messages tonight only to find my name plastered everywhere as a thief, and have been reported to the RCMP!! With respect to Robert from whom I purchased the equipment you should be ashamed of yourself! How disgusting your behavior. When I paid the amount to paypal you sent me a message that you gave me the wrong paypal account. You said that I would get a refund and I should pay the new correct paypal account. I did this without question or reservation! Those transactions caused paypal to take over $2000 out of my bank account, and I have currently paid twice for the equipment. I NEVER GOT ANY REFUND. I called paypal and they explained that I could claim back the erroneous second payment in about 6 business days. I was OK with that. I did not accuse Robert VE7BDO of trying to defraud me out of a double charge. It was an error in the billing system. I currently am out $2000, double the agreed purchase amount. AND I AM BEING ACCUSED OF FRAUD??? AT NO TIME DID ROBERT VE7BDO OR ANYONE ELSE ASK ME OR CONFRONT ME ABOUT THEFT SUSPICIONS! PLEASE GO TO MY PHYSICIAN WEBSITE www.drweksberg.com , look at my picture and call me a thief??? This is absolutely disgusting!!!!!!!!!!!!!!!!!!!!!!
VE7BDO Robert has yet to apologize to me- and he has $2000. I DEMAND AN APOLOGY FROM EVERYONE WHO ACCUSED ME!! DON'T CALL YOURSELF "HAM RADIO OPERATORS" THAT DEFINITION IS FAR ABOVE YOU!! I AM SO ANGRY AS I TYPE THIS I MAY BREAK THE KEYBOARD!!
I APOLOGIZE TO THE REST OF THE GROUP THAT HAS TO BE SUBJECT TO THIS "CR.P". BUT I AM ENTITLED TO DEFEND MYSELF IN THE SAME VENUE AS I WAS ACCUSED. PERHAPS WHOEVER REPORTED ME TO THE AUTHORITIES COULD CANCEL THE CLAIM - IT WOULD BE THE PROPER THING TO DO!
SINCERELY YOURS,
FRED WEKSBERG, MD, FRCP(C),FACP

23605. Re: Power Transformer wireing to Rectifier board TS-820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-25 04:30:43 UTC
From: trippkj4bkd
Topic: 23592 Message: 23605

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> The TS-820/820S power transformer's high voltage secondary winding has 3 terminals:
>
> 800 - connects to the Rectifier Unit board's "AC800" terminal
>
> 400 - not conneted
>
> 0 - connects to the junction of C21 (positive terminal) and C22 (negative terminal)
>
> The 820's high resolution schematic shows this. The service manual schematic, when zoomed into, is blurry but the 820 hi-res schematic is clear.
>
> 73s
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "trippkj4bkd" <thomasenglish3@> wrote:
> >
>> >
Ok, thanks Mike, but just to be clear.
The 800v from pwr tx goes to AC800v on rectifier board.

The 800 marked on HV board goes to 800v on rectifier board.Not AC800v

The Red wire from the positive of C22 high voltage cap also goes to 800v of recitifer board.Not AC800v

The 0 on the pwr tx is wired the way you have stated.

Tripp
KJ4BKD

23606. Re: FRAUDULANT PURCHASER- HOLY COW!!!!!!!!!!!!!!!!!!!!!!!!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-25 16:18:31 UTC
From: w5rkl
Topic: 23604 Message: 23606

This is a private matter between you and your accuser. Therefore, it should not be posted here in open forum.

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "ve3pie" <ve3pie@...> wrote:
>
> I RESPECTFULLY DEMAND THIS MESSAGE BE POSTED IN MY DEFENCE!!
> IF I CAN BE ACCUSED ALL OVER THIS GROUP, THEN I SHOULD BE ALLOWED TO DEFEND MYSELF TO THE ENTIRE GROUP!
> MY NAME IS DR.FRED WEKSBERG. I AM THE ACCUSED!! My call is VE3PIE and I live in Thornhill. I am a very well known dermatologist in the city of Toronto and am connected with North York General Hospital. I went through messages tonight only to find my name plastered everywhere as a thief, and have been reported to the RCMP!! With respect to Robert from whom I purchased the equipment you should be ashamed of yourself! How disgusting your behavior. When I paid the amount to paypal you sent me a message that you gave me the wrong paypal account. You said that I would get a refund and I should pay the new correct paypal account. I did this without question or reservation! Those transactions caused paypal to take over $2000 out of my bank account, and I have currently paid twice for the equipment. I NEVER GOT ANY REFUND. I called paypal and they explained that I could claim back the erroneous second payment in about 6 business days. I was OK with that. I did not accuse Robert VE7BDO of trying to defraud me out of a double charge. It was an error in the billing system. I currently am out $2000, double the agreed purchase amount. AND I AM BEING ACCUSED OF FRAUD??? AT NO TIME DID ROBERT VE7BDO OR ANYONE ELSE ASK ME OR CONFRONT ME ABOUT THEFT SUSPICIONS! PLEASE GO TO MY PHYSICIAN WEBSITE www.drweksberg.com , look at my picture and call me a thief??? This is absolutely disgusting!!!!!!!!!!!!!!!!!!!!!!
> VE7BDO Robert has yet to apologize to me- and he has $2000. I DEMAND AN APOLOGY FROM EVERYONE WHO ACCUSED ME!! DON'T CALL YOURSELF "HAM RADIO OPERATORS" THAT DEFINITION IS FAR ABOVE YOU!! I AM SO ANGRY AS I TYPE THIS I MAY BREAK THE KEYBOARD!!
> I APOLOGIZE TO THE REST OF THE GROUP THAT HAS TO BE SUBJECT TO THIS
> "CR.P". BUT I AM ENTITLED TO DEFEND MYSELF IN THE SAME VENUE AS I WAS ACCUSED. PERHAPS WHOEVER REPORTED ME TO THE AUTHORITIES COULD CANCEL THE CLAIM - IT WOULD BE THE PROPER THING TO DO!
> SINCERELY YOURS,
> FRED WEKSBERG, MD, FRCP(C),FACP
>

23607. Re: [TS-520_820_530_830] Weak Driver Tube on my TS-520?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-25 16:22:48 UTC
From: dennis hatch
Topic: 23603 Message: 23607

Check the MC-50 and make sure it's set to HI Z position. That will cause low mic sensitivity some what..... If your getting good ALC on CW, you should have good ALC on SSB if the side band stages are working properly.

--- On Tue, 11/24/09, dllewiszz <dllewiszz@...> wrote:

From: dllewiszz <dllewiszz@...>
Subject: [TS-520_820_530_830] Weak Driver Tube on my TS-520?
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, November 24, 2009, 5:50 PM

Hi,

This is long. Please bear with me.

After far too many years of inactivity, I picked up a TS-520 on eBay so I could get back on the air in a frugal way. The rig I purchased didn't have a mic with it (that's pertinent later).

When it arrived, it wouldn't transmit at all. The idle current of 60ma was normal, but there was no ALC indication and no output in any mode at the SO-239. On a shortwave receiver sitting next to the TS-520, I could hear the carrier being generated on the correct VFO freq, so I figured the oscillator was doing its thing. The TS-520 receiver was working fine, and I opened it up to clean all the scratchy wafer switches and to check that the tubes were seated firmly. Still no xmit. After reading the doc here about how to do a quick check on the finals, I followed the instructions and increased the bias/idle current substantially for 2 or 3 seconds, returning it quickly to 60ma. Voila! She started transmitting! The rig tuned normally, so I plugged a key in and even worked a little CW. What did I jumpstart?

When tuning, or keying CW, I saw plate current at around 220 - 240ma, HV in the 800 – 900v range, and an RF reading about 2/3 across the meter scale. I also now noticed ALC in the normal range when the Carrier control was a little past the mid-point on 40 meters, but on 20 meters I hardly saw any ALC at all, although the rig was indeed transmitting with normal plate current. I no longer own a good dummy load, so I'm transmitting into a plain center-fed 40/20 fan dipole that has a surprisingly low SWR on both bands.

I found an MC-50 mic on eBay, and when it arrived I was surprised at what I found. But this may help determine if there's a real problem here. I was surprised that I have to crank the mic gain up pretty high to get any RF output when I speak – even at 3 inches from the mic. Unless I crank it to 3 o'clock, I get very, very little meter movement (RF, or IP, or ALC). The ALC meter action seems a little unusual, in that it requires a pretty strong audio level to make it move, and then it jumps past the normal ALC range rather quickly. That's on 40m. On 20m, I see no ALC – or just a tiny bit of movement when I drive it hard, but again, the rig is indeed transmitting on both bands. I worked plenty of guys last weekend during the contest, and the audio reports are good, though I don't know if it sounds as good as this mic/rig combination usually sounds. When I drive the mic at 3

o'clock and talk pretty close, the RF reading is about like I'd
expect, peaking around one-third to mid-scale, which is of course less than the reading seen with a dead carrier in CW mode.

Of course, there's always the possibility the mic is defective. I can't be 100% certain, but I tried this: Killing the SG switch, I can listen to my very weak signal on the co-located shortwave receiver – and I can hear my audio with the mic gain very low, say, around 8 or 9 o'clock. That makes me think the mic is OK.

So the question is whether I have a weak driver tube causing this, or is there something else I need to check? With the finals reading the way they do, I tend to think they're OK.

Thanks for reading this far and offering suggestions on next steps.

73,

Dave WA4FXT

Yahoo! Groups Links

[Non-text portions of this message have been removed]

23608. Re: Power Transformer wireing to Rectifier board TS-820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-25 16:23:01 UTC
From: w5rkl
Topic: 23592 Message: 23608

--- In TS-520_820_530_830@yahoogroups.com, "trippkj4bkd" <thomasenglish3@...> wrote:
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > The TS-820/820S power transformer's high voltage secondary winding has 3 terminals:
> >
> > 800 - connects to the Rectifier Unit board's "AC800" terminal
> >
> > 400 - not conneted
> >
> > 0 - connects to the junction of C21 (positive terminal) and C22 (negative terminal)
> >
> > The 820's high resolution schematic shows this. The service manual schematic, when zoomed into, is blurry but the 820 hi-res schematic is clear.
> >
> > 73s
> > Mike W5RKL
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "trippkj4bkd" <thomasenglish3@> wrote:
> > >
> >> >
> Ok, thanks Mike, but just to be clear.
> The 800v from pwr tx goes to AC800v on rectifier board.
>
> The 800 marked on HV board goes to 800v on rectifier board.Not AC800v
>
> The Red wire from the positive of C22 high voltage cap also goes to 800v of recitifer board.Not AC800v
>
> The 0 on the pwr tx is wired the way you have stated.
>
> Tripp
> KJ4BKD
>

Yes

73s
Mike W5RKL

23609. Re: [TS-520_820_530_830] Re: FRAUDULANT PURCHASER- HOLY COW!!!!!!!!!!!!!!!!!!!!!!!!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-25 17:27:43 UTC
From: blownfuse
Topic: 23604 Message: 23609

It may be a private matter but it was originally posted on the open forum and I believe he has the right to defend himself.

David
Wd8oss

----- Original Message -----
From: w5rkl
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, November 25, 2009 11:18 AM
Subject: [TS-520_820_530_830] Re: FRAUDULANT PURCHASER- HOLY COW!!!!!!!!!!!!!!!!!!!!!!!!

This is a private matter between you and your accuser. Therefore, it should not be posted here in open forum.

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "ve3pie" <ve3pie@...> wrote:
>
> I RESPECTFULLY DEMAND THIS MESSAGE BE POSTED IN MY DEFENCE!!
> IF I CAN BE ACCUSED ALL OVER THIS GROUP, THEN I SHOULD BE ALLOWED TO DEFEND MYSELF TO THE ENTIRE GROUP!
> MY NAME IS DR.FRED WEKSBERG. I AM THE ACCUSED!! My call is VE3PIE and I live in Thornhill. I am a very well known dermatologist in the city of Toronto and am connected with North York General Hospital. I went through messages tonight only to find my name plastered everywhere as a thief, and have been reported to the RCMP!! With respect to Robert from whom I purchased the equipment you should be ashamed of yourself! How disgusting your behavior. When I paid the amount to paypal you sent me a message that you gave me the wrong paypal account. You said that I would get a refund and I should pay the new correct paypal account. I did this without question or reservation! Those transactions caused paypal to take over $2000 out of my bank account, and I have currently paid twice for the equipment. I NEVER GOT ANY REFUND. I called paypal and they explained that I could claim back the erroneous second payment in about 6 business days. I was OK with that. I did not accuse Robert VE7BDO of trying to defraud me out of a double charge. It was an error in the billing system. I currently am out $2000, double the agreed purchase amount. AND I AM BEING ACCUSED OF FRAUD??? AT NO TIME DID ROBERT VE7BDO OR ANYONE ELSE ASK ME OR CONFRONT ME ABOUT THEFT SUSPICIONS! PLEASE GO TO MY PHYSICIAN WEBSITE www.drweksberg.com , look at my picture and call me a thief??? This is absolutely disgusting!!!!!!!!!!!!!!!!!!!!!!
> VE7BDO Robert has yet to apologize to me- and he has $2000. I DEMAND AN APOLOGY FROM EVERYONE WHO ACCUSED ME!! DON'T CALL YOURSELF "HAM RADIO OPERATORS" THAT DEFINITION IS FAR ABOVE YOU!! I AM SO ANGRY AS I TYPE THIS I MAY BREAK THE KEYBOARD!!
> I APOLOGIZE TO THE REST OF THE GROUP THAT HAS TO BE SUBJECT TO THIS
> "CR.P". BUT I AM ENTITLED TO DEFEND MYSELF IN THE SAME VENUE AS I WAS ACCUSED. PERHAPS WHOEVER REPORTED ME TO THE AUTHORITIES COULD CANCEL THE CLAIM - IT WOULD BE THE PROPER

THING TO DO!
> SINCERELY YOURS,
> FRED WEKSBERG, MD, FRCP(C),FACP
>

[Non-text portions of this message have been removed]

23610. Re: FRAUDULANT PURCHASER- HOLY COW!!!!!!!!!!!!!!!!!!!!!!!!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-25 17:54:03 UTC
From: n6wk_skcc3
Topic: 23604 Message: 23610

Yes, It is a private Matter, but I let Fred have a chance to post his side. I will leave his post for a couple of days and then Remove it as well as the Original post.
I set a poor precedence when I posted about a fellow here that I have a problem with. I was wrong to post it to the group, but I wasn't wrong in my assessment of the situation.
In the future, let's try to keep the posts about the Kenwood radios.
Hope everyone has a Happy Thanksgiving.

73,
Gordon
Moderator

--- In TS-520_820_530_830@yahoogroups.com, "blownfuse" <blownfuse@...> wrote:
>
> It may be a private matter but it was originally posted on the open forum and I believe he has the right to defend himself.
>
> David
> Wd8oss
>
>
> ----- Original Message -----
> From: w5rkl
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, November 25, 2009 11:18 AM
> Subject: [TS-520_820_530_830] Re: FRAUDULANT PURCHASER- HOLY COW!!!!!!!!!!!!!!!!!!!!!!!!
>
>
>
> This is a private matter between you and your accuser. Therefore, it should not be posted here in open forum.
>
> Mike
> W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com, "ve3pie" <ve3pie@> wrote:
> >
> > I RESPECTFULLY DEMAND THIS MESSAGE BE POSTED IN MY DEFENCE!!
> > IF I CAN BE ACCUSED ALL OVER THIS GROUP, THEN I SHOULD BE ALLOWED TO DEFEND MYSELF TO THE ENTIRE GROUP!
> > MY NAME IS DR.FRED WEKSBERG. I AM THE ACCUSED!! My call is VE3PIE and I live in Thornhill. I am a very well known dermatologist in the city of Toronto and am connected with North York General Hospital. I went through messages tonight only to find my name plastered everywhere as a thief, and have been reported to the RCMP!! With respect to Robert from whom I purchased the equipment you should be ashamed of yourself! How disgusting your behavior. When I paid the amount to paypal you sent me a message that you

gave me the wrong paypal account. You said that I would get a refund and I should pay the new correct paypal account. I did this without question or reservation! Those transactions caused paypal to take over $2000 out of my bank account, and I have currently paid twice for the equipment. I NEVER GOT ANY REFUND. I called paypal and they explained that I could claim back the erroneous second payment in about 6 business days. I was OK with that. I did not accuse Robert VE7BDO of trying to defraud me out of a double charge. It was an error in the billing system. I currently am out $2000, double the agreed purchase amount. AND I AM BEING ACCUSED OF FRAUD??? AT NO TIME DID ROBERT VE7BDO OR ANYONE ELSE ASK ME OR CONFRONT ME ABOUT THEFT SUSPICIONS! PLEASE GO TO MY PHYSICIAN WEBSITE www.drweksberg.com , look at my picture and call me a thief??? This is absolutely disgusting!!!!!!!!!!!!!!!!!!!!!!
> > VE7BDO Robert has yet to apologize to me- and he has $2000. I DEMAND AN APOLOGY FROM EVERYONE WHO ACCUSED ME!! DON'T CALL YOURSELF "HAM RADIO OPERATORS" THAT DEFINITION IS FAR ABOVE YOU!! I AM SO ANGRY AS I TYPE THIS I MAY BREAK THE KEYBOARD!!
> > I APOLOGIZE TO THE REST OF THE GROUP THAT HAS TO BE SUBJECT TO THIS
> > "CR.P". BUT I AM ENTITLED TO DEFEND MYSELF IN THE SAME VENUE AS I WAS ACCUSED. PERHAPS WHOEVER REPORTED ME TO THE AUTHORITIES COULD CANCEL THE CLAIM - IT WOULD BE THE PROPER THING TO DO!
> > SINCERELY YOURS,
> > FRED WEKSBERG, MD, FRCP(C),FACP
> >
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

23611. Re: Plate tuning pops fuse

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-25 18:18:39 UTC
From: Ken
Topic: 23410 Message: 23611

A bit late in replying but the TUNE capacitor should NOT have HV DC on it unless C-7 is shorted...

Ken - KB7H

--- In TS-520_820_530_830@yahoogroups.com, Greg Anders <greg.anders@...> wrote:
>
> Gordon is right-on. The stator plates have HV on them and the rotor is grounded. If plates from one touch the other you have a HV short to ground,
> "el-blowish-fuses".
>
> Greg
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n6wk@...
> Sent: Friday, November 13, 2009 1:14 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] Plate tuning pops fuse
>
> John,
> Check to see if any of the Plates on the Plate tuning cap are bent and
> touching.
>
> Gordon
> N6WK
>
>
>
> k4jdp wrote:
> >
> > On my TS-830s I turn on the power, leave the heater switch off. I move
> > the plate tuning knob clockwise to 21, 24, and 28 mhz setting range
> > and the fuse pops. Has this happenned to anyone else? How did you
> > correct it? This is not in the tune process.
> > 73's de K4JDP-John
> >
> >
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>

23612. TS-830 Gold Edition, low audio level that I am considering purchasing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-25 20:32:58 UTC
From: n0bbb
Topic: 23612 Message: 23612

Let me ask those wiser than me, I am considering a purchase of a TS-830 Gold with a low volume issue. What would be a fair and reasonable offer, purchase price.

73,
Marty - N0BBB

23613. Re: Searching for Info !!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-25 19:48:10 UTC
From: Ken
Topic: 23480 Message: 23613

John...

Your website looks good and thanks for putting it all up for download. Be advised that the VFO-520 link actually accesses a
VFO-230 manual though.

73,

Ken-KB7H

--- In TS-520_820_530_830@yahoogroups.com, "Music Maker" <jhaddleton@...> wrote:
>
>
>
>
> Hello All,
>
> As most who follow my posts know, I am just setting myself up a new
> station, after an absence from Amateur Radio of about 40 years.
>
> Once I had decided to buy a Transciever and the model (I am a pensioner
> on a low income, so 'bang per Buck' was a major consideration!), I
> started scouring the internet to glean as much knowledge about my chosen
> Transciever (The TS 520 SE), and its accessories.
>
> Pictures, Specifications, and articles are in many places on the
> internet, and during my searches, I was also pleased to 'discover' this
> Group!, but I had a little 'brainwave' ..... (and it was painful !!)
> ..HI !
>
> I decided to collate all the information I have gathered so far,
> specific to the TS 520 all in one place for future 'searchers' and would
> like to ask for Members to have a look at what I have done so far, and
> if they know of further articles on Mods, repairs, or information that
> could or should be included, that is not there, would they please point
> me to it?
>
> I would also like to hear constructive critique on what I have done so
> far.
>
> Perhaps a member who (like me!) has time on their hands would like to
> do the same for their model of Kenwood Transceiver, and in the same
> format, and I would be happy to host those pages.
>
> My Email is.... jhaddleton@... <mailto:jhaddleton@...>
>

> The web page for the TS 520 is H E R E
> <http://www.john4music.tv/27.html>
>
> Kindest Regards and 73's to all,
>
> John
>
> ....\
> ....\
> ....
>
> I was Born with nothing .... 74 years leter, I still have most of it
> left !
>
> Support the Arts ...... Feed a Musician !
>
> I am not a 'HAM' ! .... I am a 'Licenced Radio Amateur'.
>
>
>
> [Non-text portions of this message have been removed]
>

23614. Re: Plate tuning pops fuse

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-25 20:22:23 UTC
From: k4jdp
Topic: 23410 Message: 23614

Tnx for the help everyone. I've not gone inside it yet, but I'm hearing a scratching/grinding sound, so the strator plates must be touching at some point.

73's de
K4JDP

--- In TS-520_820_530_830@yahoogroups.com, "Ken" <atm_ken_hunter@...> wrote:
>
> A bit late in replying but the TUNE capacitor should NOT have HV DC on it unless C-7 is shorted...
>
> Ken - KB7H
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, Greg Anders <greg.anders@> wrote:
> >
> > Gordon is right-on. The stator plates have HV on them and the rotor is grounded. If plates from one touch the other you have a HV short to ground,
> > "el-blowish-fuses".
> >
> > Greg
> >
> > -----Original Message-----
> > From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n6wk@
> > Sent: Friday, November 13, 2009 1:14 PM
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: Re: [TS-520_820_530_830] Plate tuning pops fuse
> >
> > John,
> > Check to see if any of the Plates on the Plate tuning cap are bent and
> > touching.
> >
> > Gordon
> > N6WK
> >
> >
> >
> > k4jdp wrote:
> > >
> > > On my TS-830s I turn on the power, leave the heater switch off. I move
> > > the plate tuning knob clockwise to 21, 24, and 28 mhz setting range
> > > and the fuse pops. Has this happenned to anyone else? How did you
> > > correct it? This is not in the tune process.

> > > 73's de K4JDP-John
> > >
> > >
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
>

23615. Re: MC-60/90

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-25 19:59:02 UTC
From: Ken
Topic: 23508 Message: 23615

Can't answer the question about the mic's compatability but you definitely are not looking for some FEEDBACK...

SRI, couldn't help myself ;0)

Ken-KB7H

--- In TS-520_820_530_830@yahoogroups.com, "BILL S" <toolmankev2002@...> wrote:
>
> hi there Kenwood Fans,
>
> i was wondering if anybody here has had any experience with using either a MC-60 or a MC-90 with a TS-520s and what were your results, im looking at pairing either one with my ts-520 and was looking for some feedback
>
> thanks Kevin
>

23616. Re: [TS-520_820_530_830] Re: MC-60/90

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-25 21:15:55 UTC
From: Here i am
Topic: 23508 Message: 23616

hahaaah.....good one thanks Ken

From: Ken <atm_ken_hunter@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thu, 26 November, 2009 6:59:02 AM
Subject: [TS-520_820_530_830] Re: MC-60/90

Can't answer the question about the mic's compatability but you definitely are not looking for some FEEDBACK...

SRI, couldn't help myself ;0)

Ken-KB7H

--- In TS-520_820_530_ 830@yahoogroups. com, "BILL S" <toolmankev2002@ ...> wrote:
>
> hi there Kenwood Fans,
>
> i was wondering if anybody here has had any experience with using either a MC-60 or a MC-90 with a TS-520s and what were your results, im looking at pairing either one with my ts-520 and was looking for some feedback
>
> thanks Kevin
>

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[Non-text portions of this message have been removed]

23617. RE: [TS-520_820_530_830] Re: MC-60/90

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-25 21:18:53 UTC
From: Greg Anders
Topic: 23508 Message: 23617

I use an MC-60A on my TS-520SE. It works and sounds very good according to reports I get on my audio. It’s a fairly good match as long as you set it to 50K ohms. I run the mic gain without the processor at around 10am, a little lower with the processor.

Greg

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Here i am
Sent: Wednesday, November 25, 2009 1:16 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: MC-60/90

hahaaah.....good one thanks Ken

From: Ken <atm_ken_hunter@...<mailto:atm_ken_hunter%40yahoo.com>>
To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
Sent: Thu, 26 November, 2009 6:59:02 AM
Subject: [TS-520_820_530_830] Re: MC-60/90

Can't answer the question about the mic's compatability but you definitely are not looking for some FEEDBACK...

SRI, couldn't help myself ;0)

Ken-KB7H

--- In TS-520_820_530_ 830@yahoogroups. com, "BILL S" <toolmankev2002@ ...> wrote:
>
> hi there Kenwood Fans,
>
> i was wondering if anybody here has had any experience with using either a MC-60 or a MC-90 with a TS-520s and what were your results, im looking at pairing either one with my ts-520 and was looking for some feedback
>
> thanks Kevin
>

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[Non-text portions of this message have been removed]

23618. Re: [TS-520_820_530_830] Re: MC-60/90

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-25 21:21:01 UTC
From: Here i am
Topic: 23508 Message: 23618

thnaks Greg for the reply, im currently using a Shure 550L it seems ok but just doesnt have enough grunt even with the processor on

---
From: Greg Anders <greg.anders@...>
To: "TS-520_820_530_830@yahoogroups.com" <TS-520_820_530_830@yahoogroups.com>
Sent: Thu, 26 November, 2009 8:18:53 AM
Subject: RE: [TS-520_820_530_830] Re: MC-60/90

I use an MC-60A on my TS-520SE. It works and sounds very good according to reports I get on my audio. It’s a fairly good match as long as you set it to 50K ohms. I run the mic gain without the processor at around 10am, a little lower with the processor.

Greg

From: TS-520_820_530_ 830@yahoogroups. com [mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of Here i am
Sent: Wednesday, November 25, 2009 1:16 PM
To: TS-520_820_530_ 830@yahoogroups. com
Subject: Re: [TS-520_820_ 530_830] Re: MC-60/90

hahaaah..... good one thanks Ken

From: Ken <atm_ken_hunter@ yahoo.com<mailto:atm_ ken_hunter% 40yahoo.com> >
To: TS-520_820_530_ 830@yahoogroups. com<mailto:TS-520_ 820_530_830% 40yahoogroups. com>
Sent: Thu, 26 November, 2009 6:59:02 AM
Subject: [TS-520_820_ 530_830] Re: MC-60/90

Can't answer the question about the mic's compatability but you definitely are not looking for some FEEDBACK...

SRI, couldn't help myself ;0)

Ken-KB7H

--- In TS-520_820_530_ 830@yahoogroups. com, "BILL S" <toolmankev2002@ ...> wrote:
>
> hi there Kenwood Fans,
>
> i was wondering if anybody here has had any experience with using either a MC-60 or a MC-90 with a TS-520s and what were your results, im looking at pairing either one with my ts-520 and was looking for some feedback
>
> thanks Kevin
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[Non-text portions of this message have been removed]

23619. Re: Plate tuning pops fuse

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-25 21:58:35 UTC
From: w5rkl
Topic: 23410 Message: 23619

I agree with Ken. If C7 is shorted internally, the HV will be present at the junction of C7 and L3.

There are other components that can result in a DC voltage being present on the PI Network but that would require more than one DC blocking capacitor to short internally and I seriously doubt that happened.

Are you sure the PLATE (VC1) variable capacitor plates are grinding or is it the LOAD variable capacitor (VC2-1/2/3) that is making the grinding/scrapping noise?

Connect a DC volt meter to the junction of C7 and L3. If the meter indicates a DC voltage then most likely C7 is shorted internally, especially if the voltage is approximately 900VDC in receive.

Do not place the 830 in transmit when measuring the voltage at the junction of C7 and L3.

One more thing, if there is 900VDC at the junction of C7 and L3, more than likely RF choke L5 (470uh choke) might possibly be burnt "Open".

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "k4jdp" <k4jdp@...> wrote:
>
> Tnx for the help everyone. I've not gone inside it yet, but I'm hearing a scratching/grinding sound, so the strator plates must be touching at some point.
>
> 73's de
> K4JDP
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ken" <atm_ken_hunter@> wrote:
> >
> > A bit late in replying but the TUNE capacitor should NOT have HV DC on it unless C-7 is shorted...
> >
> > Ken - KB7H
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, Greg Anders <greg.anders@> wrote:
> > >
> > > Gordon is right-on. The stator plates have HV on them and the rotor is grounded. If plates from one touch the other you have a HV short to ground,
> > > "el-blowish-fuses".
> > >
> > > Greg

> > >
> > > -----Original Message-----
> > > From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com]
On Behalf Of n6wk@
> > > Sent: Friday, November 13, 2009 1:14 PM
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Subject: Re: [TS-520_820_530_830] Plate tuning pops fuse
> > >
> > > John,
> > > Check to see if any of the Plates on the Plate tuning cap are bent and
> > > touching.
> > >
> > > Gordon
> > > N6WK
> > >
> > >
> > >
> > > k4jdp wrote:
> > > >
> > > > On my TS-830s I turn on the power, leave the heater switch off. I move
> > > > the plate tuning knob clockwise to 21, 24, and 28 mhz setting range
> > > > and the fuse pops. Has this happenned to anyone else? How did you
> > > > correct it? This is not in the tune process.
> > > > 73's de K4JDP-John
> > > >
> > > >
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> > > ------------------------------------
> > >
> > > Yahoo! Groups Links
> > >
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23620. RE: [TS-520_820_530_830] TS-830 Gold Edition, low audio level that I am considering purchasing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-25 22:01:39 UTC
From: Dick Merryman
Topic: 23612 Message: 23620

Marty-

About a month ago I gave $500 for a TS-830S gold. Included was a VFO-230, a SP-230 and a no-name hand mike. I felt that I got an extremely good deal as TS-830Ss by themselves generally run between $400 - $500. That said, I jumped on the deal after it was on both QRZ and QTH for several days and so if it was that great of a deal I would expect that it would be gone sooner.

So, what is a TS-830S gold worth? Who knows. Whatever the buyer is willing to pay. I was willing to pay $500 for the radio alone and still would if I was still looking. That's all the help I can offer except for the following:

You should know that the TS-830S gold label came from the factory with the two optional CW filters installed. Many, many gold's have had the two filters removed and sold separately so they are not really gold's anymore except for the little label. There is no other difference between a gold and not-gold label. The filters will cost around $140 used and one of them is rare. New Inrad filters are way higher than that. If the CW filters are not important to you then I would expect you might pick up a TS-830S for $400 or less. Not more.

Using the VBT (variable bandwidth tuning) control, the optional filters permit you to squeeze the CW band width down so tight that a ray of light wouldn't slide through. It may be useful to some but to me the VBT without the optional filters works just fine. When you squeeze the bandwidth too much there is a lot of ringing and for me it is hard to copy CW.

OK, where does that leave us? Well, as far as I am concerned the TS-830S is a fine, fine box with or without the filters. I get about 130 watts out on all bands and the receiver is superb. I highly recommend buying one if you are so inclined.

Check out QRZ because I think I remember seeing a fixer-upper on there in the past two weeks or so. As I recall the problem was the digital display was flakey but the rest of the radio worked FB. The digital displays are easy to fix if you are at all technical and it may be that all it needs is a good cleaning. I can't remember the price but I do remember that I considered buying it but didn't as I already have three radios and just can't justify another.

Good luck,

-Dick-
N3XRU

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n0bbb
Sent: Wednesday, November 25, 2009 12:33 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS-830 Gold Edition, low audio level that I am considering purchasing

Let me ask those wiser than me, I am considering a purchase of a TS-830 Gold with a low volume issue. What would be a fair and reasonable offer, purchase price.

73,
Marty - N0BBB

[Non-text portions of this message have been removed]

23621. Re: Weak Driver Tube on my TS-520?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-25 22:09:32 UTC
From: dllewiszz
Topic: 23603 Message: 23621

Bingo! The mic was in LO-Z and now that I've changed it, the sensitivity seems pretty normal. ALC seems to drop slowly on CW, so I still may have a weak driver, but this certainly clears up the mic question. Thanks!!

73,
Dave WA4FXT

--- In TS-520_820_530_830@yahoogroups.com, dennis hatch <dennishhatch@...> wrote:
>
> Check the MC-50 and make sure it's set to HI Z position.Â That will cause low mic sensitivity some what.....Â If your getting good ALC on CW, you should have good ALC on SSB if the side band stages are working properly.
>
> --- On Tue, 11/24/09, dllewiszz <dllewiszz@...> wrote:
>
>
> From: dllewiszz <dllewiszz@...>
> Subject: [TS-520_820_530_830] Weak Driver Tube on my TS-520?
> To: TS-520_820_530_830@yahoogroups.com
> Date: Tuesday, November 24, 2009, 5:50 PM
>
>
> Hi,
>
> This is long.Â Please bear with me.Â
>
> After far too many years of inactivity, I picked up a TS-520 on eBay so I could get back on the air in a frugal way.Â The rig I purchased didn't have a mic with it (that's pertinent later).
>
> When it arrived, it wouldn't transmit at all.Â The idle current of 60ma was normal, but there was no ALC indication and no output in any mode at the SO-239.Â On a shortwave receiver sitting next to the TS-520, I could hear the carrier being generated on the correct VFO freq, so I figured the oscillator was doing its thing.Â The TS-520 receiver was working fine, and I opened it up to clean all the scratchy wafer switches and to check that the tubes were seated firmly.Â Still no xmit.Â After reading the doc here about how to do a quick check on the finals, I followed the instructions and increased the bias/idle current substantially for 2 or 3 seconds, returning it quickly to 60ma.Â Voila!Â She started transmitting!Â The rig tuned normally, so I plugged a key in and even worked a little CW.Â What did I jumpstart?
>
> When tuning, or keying CW, I saw plate current at around 220 - 240ma, HV in the 800 â□" 900v range, and an RF reading about 2/3 across the meter scale.Â I also now noticed ALC in the normal range when the Carrier control was a little past the mid-point on 40 meters, but on 20 meters I hardly saw any ALC at all, although the rig was indeed transmitting with normal plate current.Â I no longer own a good dummy load, so I'm transmitting into a plain center-fed 40/20 fan dipole that has a surprisingly low SWR on both bands.
>
> I found an MC-50 mic on eBay, and when it arrived I was surprised at what I found.Â But this may help determine if there's a real problem here.Â I was surprised that I have to crank the mic gain up pretty high to get any RF output

when I speak â□" even at 3 inches from the mic.Â Unless I crank it to 3 o'clock, I get very, very little meter movement (RF, or IP, or ALC).Â The ALC meter action seems a little unusual, in that it requires a pretty strong audio level to make it move, and then it jumps past the normal ALC range rather quickly.Â That's on 40m.Â On 20m, I see no ALC â□" or just a tiny bit of movement when I drive it hard, but again, the rig is indeed transmitting on both bands.Â I worked plenty of guys last weekend during the contest, and the audio reports are good, though I don't know if it sounds as good as this mic/rig combination usually sounds.Â When I drive the mic at 3 o'clock and talk pretty close, the RF reading is about like I'd
> expect, peaking around one-third to mid-scale, which is of course less than the reading seen with a dead carrier in CW mode.
>
> Of course, there's always the possibility the mic is defective.Â I can't be 100% certain, but I tried this:Â Killing the SG switch, I can listen to my very weak signal on the co-located shortwave receiver â□" and I can hear my audio with the mic gain very low, say, around 8 or 9 o'clock.Â That makes me think the mic is OK.Â
>
> So the question is whether I have a weak driver tube causing this, or is there something else I need to check?Â With the finals reading the way they do, I tend to think they're OK.Â
>
> Thanks for reading this far and offering suggestions on next steps.Â
>
> 73,
>
> Dave WA4FXT
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> ---
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> Yahoo! Groups Links
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> [Non-text portions of this message have been removed]
>

23622. TS-520SE with external VFO question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-25 23:32:49 UTC
From: Peter
Topic: 23622 Message: 23622

Hi All. I have a TS-520SE with the external VFO attached. Today when I was having a QSO I experienced constant drifting fro the original frequency. I hadn't noticed this when I was just listening, only when I started the QSO. Is the external VFO the issue or is there something else that I need to do? Thanks in advance for ant advice that you have.

73,

Pete, N1TCH

23623. DG-5 Power Cord

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-26 03:48:50 UTC
From: jsloss
Topic: 23623 Message: 23623

Need the DC power cord, or the 2 end connectors and I'll make my own, for the DG-5.

Thank you,

Joe k7mks

[Non-text portions of this message have been removed]

23624. Re: [TS-520_820_530_830] DG-5 Power Cord

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-26 03:58:39 UTC
From: Lou Blasco
Topic: 23623 Message: 23624

Hi Joe,

What you need is a two pin CB power plug. Very popular in the UK and
Australia. Here's a google search that should help you.

http://www.google.com/search?num=50&hl=en&newwindow=1&safe=off&as_qdr=all&q=cb+power+lead+%222+pin%22&btnG=Search&meta

You could also ask Neil at AADE here.

http://www.aade.com

Regards

Lou
VK3ALB

At 02:48 PM 26/11/2009, you wrote:
>Need the DC power cord, or the 2 end connectors and I'll make my
>own, for the DG-5.
>
>Thank you,
>
>Joe k7mks

23625. Re: TS-520SE with external VFO question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-26 12:05:21 UTC
From: w5rkl
Topic: 23622 Message: 23625

Hello Pete,

The drift in your 520SE is caused by instability in the 9VDC supply on the FIX CH AVR UNIT board by aging Q4 and D3.

Drift occurs when the 9VDC supply is not held at a constant 9VDC +/- .5VDC. When Q4 and D3 ages the 9VDC becomes unstable resulting in a drifting 9VDC. When the 9VDC is not stable the 520SE drifts in both transmit and receive.

Replacement of Q4 and D3 will significantly reduce the drift of the 9VDC supply resulting in a much more stable TS-520SE.

The drift in the 520SE cannot be completely eliminated. There always will be some drift, a few hertz or so. But the key to reduction in the amount of drift is the stability in the 9VDC supply and not because you have an external VFO connected to the 520SE. While it is true the external VFO, when used, results in an additional load on the 9VDC supply, the external VFO is not the source of the drift in the 520SE, it's the instability in the 9VDC supply on the FIX CH AVR UNIT board that is causing the drift. The 9VDC supply, as designed, is more than capable of providing a stable 9VDC supply to provide power to all the circuits both internal and external to the 520SE. Therefore, replace Q4 and D3 and the 9VDC supply will become much more stable leading to a significant reduction in the 520SE's drift in both transmit and receive.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Peter" <nitchman@...> wrote:
>
> Hi All. I have a TS-520SE with the external VFO attached. Today when I was having a QSO I experienced constant drifting fro the original frequency. I hadn't noticed this when I was just listening, only when I started the QSO. Is the external VFO the issue or is there something else that I need to do? Thanks in advance for ant advice that you have.
>
> 73,
>
> Pete, N1TCH
>

23626. Re: Weak Driver Tube on my TS-520?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-26 12:38:00 UTC
From: w5rkl
Topic: 23603 Message: 23626

Dave,

ALC is not used in CW mode, therefore, there will be no ALC meter indication in CW mode regardless of the CAR control setting.

A falling ALC meter indication after peaking the DRIVE control in TUNE mode is a sign of a weak driver tube.

The ALC meter indication "will" drop significantly when the PLATE control is adjusted for a "dip" in "IP" current while in TUNE mode. This is normal and should not be misinterpreted as a weak driver tube.

I agree, a low impedance microphone will produce low indication on RF and IP meter indications plus there will be little, if any ALC meter readings.

ALC is produces when grid current flows in the final tubes. Grid current flow when the level of RF driving signal results in the final tube grid's positive peak swing in grid voltage becomes positive. The moment the swing in grid voltage to the final amplifiers becomes positive, a current begins to flow between the final tube's cathode and grid, hence "grid current". This positive swing in final tube grid voltage is sensed by the emitter of Q10 on the RF unit which results in an identical change in collector voltage of Q10 resulting in an ALC voltage appearing on the RF UNIT's "ALC" terminal. The ALC voltage is then fed to the "AGL" terminal on the GENERATOR UNIT to control the gain of Q1 and to the same "AGL" terminal on the IF UNIT to control the gain of Q1 which leads to an overall reduction in RF output.

ALC is in TUNE mode is used entirely as an "tuning aid", nothing more.

RF output gain in CW is controlled primarily by varying a DC voltage to the GENERATOR UNIT's applied to the balance modulator through the CAR control.

RF output gain in sideband is controlled by both the MIC gain and the ALC voltage applied as indicated above.

For further details about grid current in amplifier class see the ARRL handbook.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "dllewiszz" <dllewiszz@...> wrote:
>
> Bingo! The mic was in LO-Z and now that I've changed it, the sensitivity seems pretty normal. ALC seems to drop slowly on CW, so I still may have a weak driver, but this certainly clears up the mic question. Thanks!!
>
> 73,
> Dave WA4FXT
>

>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, dennis hatch <dennishhatch@> wrote:
> >
> > Check the MC-50 and make sure it's set to HI Z position.Â That will cause low mic sensitivity some what.....Â If your getting good ALC on CW, you should have good ALC on SSB if the side band stages are working properly.
> >
> > --- On Tue, 11/24/09, dllewiszz <dllewiszz@> wrote:
> >
> >
> > From: dllewiszz <dllewiszz@>
> > Subject: [TS-520_820_530_830] Weak Driver Tube on my TS-520?
> > To: TS-520_820_530_830@yahoogroups.com
> > Date: Tuesday, November 24, 2009, 5:50 PM
> >
> >
> > Hi,
> >
> > This is long.Â Please bear with me.Â
> >
> > After far too many years of inactivity, I picked up a TS-520 on eBay so I could get back on the air in a frugal way.Â The rig I purchased didn't have a mic with it (that's pertinent later).
> >
> > When it arrived, it wouldn't transmit at all.Â The idle current of 60ma was normal, but there was no ALC indication and no output in any mode at the SO-239.Â On a shortwave receiver sitting next to the TS-520, I could hear the carrier being generated on the correct VFO freq, so I figured the oscillator was doing its thing.Â The TS-520 receiver was working fine, and I opened it up to clean all the scratchy wafer switches and to check that the tubes were seated firmly.Â Still no xmit.Â After reading the doc here about how to do a quick check on the finals, I followed the instructions and increased the bias/idle current substantially for 2 or 3 seconds, returning it quickly to 60ma.Â Voila!Â She started transmitting!Â The rig tuned normally, so I plugged a key in and even worked a little CW.Â What did I jumpstart?
> >
> > When tuning, or keying CW, I saw plate current at around 220 - 240ma, HV in the 800 â□" 900v range, and an RF reading about 2/3 across the meter scale.Â I also now noticed ALC in the normal range when the Carrier control was a little past the mid-point on 40 meters, but on 20 meters I hardly saw any ALC at all, although the rig was indeed transmitting with normal plate current.Â I no longer own a good dummy load, so I'm transmitting into a plain center-fed 40/20 fan dipole that has a surprisingly low SWR on both bands.
> >
> > I found an MC-50 mic on eBay, and when it arrived I was surprised at what I found.Â But this may help determine if there's a real problem here.Â I was surprised that I have to crank the mic gain up pretty high to get any RF output when I speak â□" even at 3 inches from the mic.Â Unless I crank it to 3 o'clock, I get very, very little meter movement (RF, or IP, or ALC).Â The ALC meter action seems a little unusual, in that it requires a pretty strong audio level to make it move, and then it jumps past the normal ALC range rather quickly.Â That's on 40m.Â On 20m, I see no ALC â□" or just a tiny bit of movement when I drive it hard, but again, the rig is indeed transmitting on both bands.Â I worked plenty of guys last weekend during the contest, and the audio reports are good, though I don't know if it sounds as good as this mic/rig combination usually sounds.Â When I drive the mic at 3 o'clock and talk pretty close, the RF reading is about like I'd

> > expect, peaking around one-third to mid-scale, which is of course less than the reading seen with a dead carrier in CW mode.
> >
> > Of course, there's always the possibility the mic is defective.Â I can't be 100% certain, but I tried this:Â Killing the SG switch, I can listen to my very weak signal on the co-located shortwave receiver â□" and I can hear my audio with the mic gain very low, say, around 8 or 9 o'clock.Â That makes me think the mic is OK.Â
> >
> > So the question is whether I have a weak driver tube causing this, or is there something else I need to check?Â With the finals reading the way they do, I tend to think they're OK.Â
> >
> > Thanks for reading this far and offering suggestions on next steps.Â
> >
> > 73,
> >
> > Dave WA4FXT
> >
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> >
> > ------------------------------------
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> > Yahoo! Groups Links
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> > [Non-text portions of this message have been removed]
> >
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23627. Trouble with TS-820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-26 15:17:14 UTC
From: hapakr
Topic: 23627 Message: 23627

Hello all! I'm hoping someone can help me!
I have recently purchased a TS-820s and upon hooking it up I have discovered that only the CW mode seems to transmit. The Usb and Lsb modes seem to be dead ☐ no output at all.
When the mic is keyed I here a relay click but my AT-230 shows no power output at all.
Could I have missed something?? Where might I start to troubleshoot??
Any help would be greatly appreciated!!

Rod
VA3 ZVT

23628. Re: TS-520SE with external VFO question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-26 12:56:44 UTC
From: Peter
Topic: 23622 Message: 23628

Hi Mike,
Thanks for the reply. when looking at the aervice manual I note that the FIX CH AVR UNIT unit has to b eremoved to replace the electrolytic P/S caps. Would this be a good time to do that as well?

73s
Pete N1TCH

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello Pete,
>
> The drift in your 520SE is caused by instability in the 9VDC supply on the FIX CH AVR UNIT board by aging Q4 and D3.
>
> Drift occurs when the 9VDC supply is not held at a constant 9VDC +/- .5VDC. When Q4 and D3 ages the 9VDC becomes unstable resulting in a drifting 9VDC. When the 9VDC is not stable the 520SE drifts in both transmit and receive.
>
> Replacement of Q4 and D3 will significantly reduce the drift of the 9VDC supply resulting in a much more stable TS-520SE.
>
> The drift in the 520SE cannot be completely eliminated. There always will be some drift, a few hertz or so. But the key to reduction in the amount of drift is the stability in the 9VDC supply and not because you have an external VFO connected to the 520SE. While it is true the external VFO, when used, results in an additional load on the 9VDC supply, the external VFO is not the source of the drift in the 520SE, it's the instability in the 9VDC supply on the FIX CH AVR UNIT board that is causing the drift. The 9VDC supply, as designed, is more than capable of providing a stable 9VDC supply to provide power to all the circuits both internal and external to the 520SE. Therefore, replace Q4 and D3 and the 9VDC supply will become much more stable leading to a significant reduction in the 520SE's drift in both transmit and receive.
>
> 73s
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Peter" <nitchman@> wrote:
> >
> > Hi All. I have a TS-520SE with the external VFO attached. Today when I was having a QSO I experienced constant drifting fro the original frequency. I hadn't noticed this when I was just listening, only when I started the QSO. Is the external VFO the issue or is there something else that I need to do? Thanks in advance for ant advice that you have.
> >
> > 73,

> >
> > Pete, N1TCH
> >
>

23629. Re: TS-830 Gold Edition, low audio level that I am considering purchasing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-26 10:45:58 UTC
From: n0bbb
Topic: 23612 Message: 23629

Dick,

Thank you so much for the reply.

73,
Marty - N0BBB

--- In TS-520_820_530_830@yahoogroups.com, "Dick Merryman" <dicko@...> wrote:
>
> Marty-
>
> About a month ago I gave $500 for a TS-830S gold. Included was a VFO-230, a
> SP-230 and a no-name hand mike. I felt that I got an extremely good deal as
> TS-830Ss by themselves generally run between $400 - $500. That said, I
> jumped on the deal after it was on both QRZ and QTH for several days and so
> if it was that great of a deal I would expect that it would be gone sooner.
>
> So, what is a TS-830S gold worth? Who knows. Whatever the buyer is willing
> to pay. I was willing to pay $500 for the radio alone and still would if I
> was still looking. That's all the help I can offer except for the
> following:
>
> You should know that the TS-830S gold label came from the factory with the
> two optional CW filters installed. Many, many gold's have had the two
> filters removed and sold separately so they are not really gold's anymore
> except for the little label. There is no other difference between a gold
> and not-gold label. The filters will cost around $140 used and one of them
> is rare. New Inrad filters are way higher than that. If the CW filters are
> not important to you then I would expect you might pick up a TS-830S for
> $400 or less. Not more.
>
> Using the VBT (variable bandwidth tuning) control, the optional filters
> permit you to squeeze the CW band width down so tight that a ray of light
> wouldn't slide through. It may be useful to some but to me the VBT without
> the optional filters works just fine. When you squeeze the bandwidth too
> much there is a lot of ringing and for me it is hard to copy CW.
>
> OK, where does that leave us? Well, as far as I am concerned the TS-830S is
> a fine, fine box with or without the filters. I get about 130 watts out on
> all bands and the receiver is superb. I highly recommend buying one if you
> are so inclined.
>
> Check out QRZ because I think I remember seeing a fixer-upper on there in
> the past two weeks or so. As I recall the problem was the digital display

> was flakey but the rest of the radio worked FB. The digital displays are
> easy to fix if you are at all technical and it may be that all it needs is a
> good cleaning. I can't remember the price but I do remember that I
> considered buying it but didn't as I already have three radios and just
> can't justify another.
>
> Good luck,
>
> -Dick-
> N3XRU
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n0bbb
> Sent: Wednesday, November 25, 2009 12:33 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] TS-830 Gold Edition, low audio level that I am
> considering purchasing
>
>
>
>
> Let me ask those wiser than me, I am considering a purchase of a TS-830 Gold
> with a low volume issue. What would be a fair and reasonable offer, purchase
> price.
>
> 73,
> Marty - N0BBB
>
>
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>
>
>
> [Non-text portions of this message have been removed]
>

23630. Re: Plate tuning pops fuse

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-26 15:14:49 UTC
From: k4jdp
Topic: 23410 Message: 23630

It's definitely the Plate tuning capacitor.

73's de
K4JDP-John

23631. Re: [TS-520_820_530_830] Trouble with TS-820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-26 16:55:04 UTC
From: Charlie , W5COV
Topic: 23627 Message: 23631

Could you provide more information ? There will be no power output on SSB unless you have audio to the microphone (talking) . Do you not show any output when you talk into the microphone ?

Charlie , W5COV

[Non-text portions of this message have been removed]

23632. Filters for Sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-26 17:01:56 UTC
From: ah6rr1
Topic: 23632 Message: 23632

I have 2 filters for sale from a TS-830S
YG-455C $75.00
YK-88C $40.00
Will have other parts available soon.
Contact me off line
Roland AH6RR

23633. Re: [TS-520_820_530_830] Trouble with TS-820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-26 17:05:30 UTC
From: Don Thomas
Topic: 23627 Message: 23633

There will be no SSB output unless audio is coming from the mic. Several things to check such as: were you trying to talk into the mic and/or the mic gain turned down? Could be any number of things with it working in CW and not SSB. These two are easy to overlook if new to HF SSB. The group needs more info to start drawing ideas for solving your problem.

Don T.

--- On Thu, 11/26/09, hapakr <rhapak@...> wrote:

From: hapakr <rhapak@...>
Subject: [TS-520_820_530_830] Trouble with TS-820s
To: TS-520_820_530_830@yahoogroups.com
Date: Thursday, November 26, 2009, 9:17 AM

Hello all! I'm hoping someone can help me!
I have recently purchased a TS-820s and upon hooking it up I have discovered that only the CW mode seems to transmit. The Usb and Lsb modes seem to be dead – no output at all.
When the mic is keyed I here a relay click but my AT-230 shows no power output at all.
Could I have missed something?? Where might I start to troubleshoot? ?
Any help would be greatly appreciated! !

Rod
VA3 ZVT

[Non-text portions of this message have been removed]

23634. Re: Weak Driver Tube on my TS-520?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-26 17:24:54 UTC
From: dllewiszz
Topic: 23603 Message: 23634

Thanks, Mike. That's helpful, and clears some of my confusion. When I'm in TUNE mode, I still see very low or now ALC on 20m, but otherwise things look pretty good. It's been awfully long since I studied vacuum tube amp classes, so the reminder on grid current and the ALC feedback system was welcome. All this IP stuff I've been buried in for the last 15 years has erased a lot of what I knew as a teen.

Mike, I'm pretty sure I heard you either Tues or Wed in a QSO with a station in NC on 40m.

73,

Dave

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Dave,
>
> ALC is not used in CW mode, therefore, there will be no ALC meter indication in CW mode regardless of the CAR control setting.
>
> A falling ALC meter indication after peaking the DRIVE control in TUNE mode is a sign of a weak driver tube.
>
> The ALC meter indication "will" drop significantly when the PLATE control is adjusted for a "dip" in "IP" current while in TUNE mode. This is normal and should not be misinterpreted as a weak driver tube.
>
> I agree, a low impedance microphone will produce low indication on RF and IP meter indications plus there will be little, if any ALC meter readings.
>
> ALC is produces when grid current flows in the final tubes. Grid current flow when the level of RF driving signal results in the final tube grid's positive peak swing in grid voltage becomes positive. The moment the swing in grid voltage to the final amplifiers becomes positive, a current begins to flow between the final tube's cathode and grid, hence "grid current". This positive swing in final tube grid voltage is sensed by the emitter of Q10 on the RF unit which results in an identical change in collector voltage of Q10 resulting in an ALC voltage appearing on the RF UNIT's "ALC" terminal. The ALC voltage is then fed to the "AGL" terminal on the GENERATOR UNIT to control the gain of Q1 and to the same "AGL" terminal on the IF UNIT to control the gain of Q1 which leads to an overall reduction in RF output.
>
> ALC is in TUNE mode is used entirely as an "tuning aid", nothing more.
>
> RF output gain in CW is controlled primarily by varying a DC voltage to the GENERATOR UNIT's applied to the balance modulator through the CAR control.
>
> RF output gain in sideband is controlled by both the MIC gain and the ALC voltage applied as indicated above.
>
>
> For further details about grid current in amplifier class see the ARRL handbook.
>

>
> 73s
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "dllewiszz" <dllewiszz@> wrote:
> >
> > Bingo! The mic was in LO-Z and now that I've changed it, the sensitivity seems pretty normal. ALC seems to drop slowly on CW, so I still may have a weak driver, but this certainly clears up the mic question. Thanks!!
> >
> > 73,
> > Dave WA4FXT
> >
> >
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, dennis hatch <dennishhatch@> wrote:
> > >
> > > Check the MC-50 and make sure it's set to HI Z position.Â That will cause low mic sensitivity some what.....Â If your getting good ALC on CW, you should have good ALC on SSB if the side band stages are working properly.
> > >
> > > --- On Tue, 11/24/09, dllewiszz <dllewiszz@> wrote:
> > >
> > >
> > > From: dllewiszz <dllewiszz@>
> > > Subject: [TS-520_820_530_830] Weak Driver Tube on my TS-520?
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Date: Tuesday, November 24, 2009, 5:50 PM
> > >
> > >
> > > Hi,
> > >
> > > This is long.Â Please bear with me.Â
> > >
> > > After far too many years of inactivity, I picked up a TS-520 on eBay so I could get back on the air in a frugal way.Â The rig I purchased didn't have a mic with it (that's pertinent later).
> > >
> > > When it arrived, it wouldn't transmit at all.Â The idle current of 60ma was normal, but there was no ALC indication and no output in any mode at the SO-239.Â On a shortwave receiver sitting next to the TS-520, I could hear the carrier being generated on the correct VFO freq, so I figured the oscillator was doing its thing.Â The TS-520 receiver was working fine, and I opened it up to clean all the scratchy wafer switches and to check that the tubes were seated firmly.Â Still no xmit.Â After reading the doc here about how to do a quick check on the finals, I followed the instructions and increased the bias/idle current substantially for 2 or 3 seconds, returning it quickly to 60ma.Â Voila!Â She started transmitting!Â The rig tuned normally, so I plugged a key in and even worked a little CW.Â What did I jumpstart?
> > >
> > > When tuning, or keying CW, I saw plate current at around 220 - 240ma, HV in the 800 â□" 900v range, and an RF reading about 2/3 across the meter scale.Â I also now noticed ALC in the normal range when the Carrier control

was a little past the mid-point on 40 meters, but on 20 meters I hardly saw any ALC at all, although the rig was indeed transmitting with normal plate current.Â I no longer own a good dummy load, so I'm transmitting into a plain center-fed 40/20 fan dipole that has a surprisingly low SWR on both bands.
> > >
> > > I found an MC-50 mic on eBay, and when it arrived I was surprised at what I found.Â But this may help determine if there's a real problem here.Â I was surprised that I have to crank the mic gain up pretty high to get any RF output when I speak â□" even at 3 inches from the mic.Â Unless I crank it to 3 o'clock, I get very, very little meter movement (RF, or IP, or ALC).Â The ALC meter action seems a little unusual, in that it requires a pretty strong audio level to make it move, and then it jumps past the normal ALC range rather quickly.Â That's on 40m.Â On 20m, I see no ALC â□" or just a tiny bit of movement when I drive it hard, but again, the rig is indeed transmitting on both bands.Â I worked plenty of guys last weekend during the contest, and the audio reports are good, though I don't know if it sounds as good as this mic/rig combination usually sounds.Â When I drive the mic at 3 o'clock and talk pretty close, the RF reading is about like I'd
> > > expect, peaking around one-third to mid-scale, which is of course less than the reading seen with a dead carrier in CW mode.
> > >
> > > Of course, there's always the possibility the mic is defective.Â I can't be 100% certain, but I tried this:Â Killing the SG switch, I can listen to my very weak signal on the co-located shortwave receiver â□" and I can hear my audio with the mic gain very low, say, around 8 or 9 o'clock.Â That makes me think the mic is OK.Â
> > >
> > > So the question is whether I have a weak driver tube causing this, or is there something else I need to check?Â With the finals reading the way they do, I tend to think they're OK.Â
> > >
> > > Thanks for reading this far and offering suggestions on next steps.Â
> > >
> > > 73,
> > >
> > > Dave WA4FXT
> > >
> > >
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> > > ------------------------------------
> > >
> > > Yahoo! Groups Links
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> > > [Non-text portions of this message have been removed]
> > >
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23635. Thinking of selling TS-520SE, need input

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-26 17:36:00 UTC
From: James Allen
Topic: 23635 Message: 23635

Hi all. Things aren't going so well and I am thinking that in order to provide my family with a good christmas I will need to sell my TS-520SE. I need some input on an asking price. It is in excellent cosmetic condition and I tested it into a dummy load on all bands and I can get 100+ watts out. It is very clean inside and did not come from a smoking home. I also have the MC-50 in excellent condition as well as the SP-520 in excellent condition. How much should I ask for when listing this combo for sale? I am planning on listing it locally first so that I do not have to mess with shipping it, unless someone on here really wants to buy it. I've looked at ebay and seen a 520SE go for nearly $400 in good condition, the mike go for anywhere from $50 to over $100, and the speaker go for about $45 lately.

I'm bummed about having to sell it since it is my first HF radio, but my family needs to come first and I know I can always buy another rig next year when I have a better job (I recently graduated with my B.S. in business administration so I'm still trying to find something to use it with). I appreciate any help you guys can give me.

Paul Allen
KE7TYY

[Non-text portions of this message have been removed]

23636. Re: TS-520SE with external VFO question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-26 22:08:19 UTC
From: w5rkl
Topic: 23622 Message: 23636

Sure would Pete. Be careful when removing the capacitors, not to apply too much heat to the capacitor leads. Heat can radiate along the PC foils and affect other components.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Peter" <nitchman@...> wrote:
>
> Hi Mike,
> Thanks for the reply. when looking at the aervice manual I note that the FIX CH AVR UNIT unit has to b eremoved to replace the electrolytic P/S caps. Would this be a good time to do that as well?
>
> 73s
> Pete N1TCH
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Hello Pete,
> >
> > The drift in your 520SE is caused by instability in the 9VDC supply on the FIX CH AVR UNIT board by aging Q4 and D3.
> >
> > Drift occurs when the 9VDC supply is not held at a constant 9VDC +/- .5VDC. When Q4 and D3 ages the 9VDC becomes unstable resulting in a drifting 9VDC. When the 9VDC is not stable the 520SE drifts in both transmit and receive.
> >
> > Replacement of Q4 and D3 will significantly reduce the drift of the 9VDC supply resulting in a much more stable TS-520SE.
> >
> > The drift in the 520SE cannot be completely eliminated. There always will be some drift, a few hertz or so. But the key to reduction in the amount of drift is the stability in the 9VDC supply and not because you have an external VFO connected to the 520SE. While it is true the external VFO, when used, results in an additional load on the 9VDC supply, the external VFO is not the source of the drift in the 520SE, it's the instability in the 9VDC supply on the FIX CH AVR UNIT board that is causing the drift. The 9VDC supply, as designed, is more than capable of providing a stable 9VDC supply to provide power to all the circuits both internal and external to the 520SE. Therefore, replace Q4 and D3 and the 9VDC supply will become much more stable leading to a significant reduction in the 520SE's drift in both transmit and receive.
> >
> > 73s
> > Mike W5RKL
> >
> >

> > --- In TS-520_820_530_830@yahoogroups.com, "Peter" <nitchman@> wrote:
> > >
> > > Hi All. I have a TS-520SE with the external VFO attached. Today when I was having a QSO I experienced constant drifting fro the original frequency. I hadn't noticed this when I was just listening, only when I started the QSO. Is the external VFO the issue or is there something else that I need to do? Thanks in advance for ant advice that you have.
> > >
> > > 73,
> > >
> > > Pete, N1TCH
> > >
> >
>

23637. Re: Plate tuning pops fuse

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-26 22:13:57 UTC
From: w5rkl
Topic: 23410 Message: 23637

That's strange because the spacing between the fixed and variable plates in the PLATE cap are much wider than the LOADING capacitor. Sounds like a previous owner abused the final stage or didn't pay attention to what they were doing and bent one or more of the plates.

Have you checked the interstage coupling cap C7 to see if it's shorted? It may not appear shorted with an ohm meter but applying high voltage C7 may short.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "k4jdp" <k4jdp@...> wrote:
>
> It's definitely the Plate tuning capacitor.
>
> 73's de
> K4JDP-John
>

23638. Re: [TS-520_820_530_830] Thinking of selling TS-520SE, need input

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-26 21:51:45 UTC
From: John Cox
Topic: 23635 Message: 23638

Unless you have children and you were talking about mom, dad, and siblings when you said family, don't sell your radio. Tell them you don't have the money this year. If they get angry, look for a new family.

--- On Thu, 11/26/09, James Allen <jp.paul.allen@...> wrote:

From: James Allen <jp.paul.allen@...>
Subject: [TS-520_820_530_830] Thinking of selling TS-520SE, need input
To: "ts-520_820_530_830" <ts-520_820_530_830@yahoogroups.com>
Date: Thursday, November 26, 2009, 5:36 PM

Hi all. Things aren't going so well and I am thinking that in order to provide my family with a good christmas I will need to sell my TS-520SE. I need some input on an asking price. It is in excellent cosmetic condition and I tested it into a dummy load on all bands and I can get 100+ watts out. It is very clean inside and did not come from a smoking home. I also have the MC-50 in excellent condition as well as the SP-520 in excellent condition. How much should I ask for when listing this combo for sale? I am planning on listing it locally first so that I do not have to mess with shipping it, unless someone on here really wants to buy it. I've looked at ebay and seen a 520SE go for nearly $400 in good condition, the mike go for anywhere from $50 to over $100, and the speaker go for about $45 lately.

I'm bummed about having to sell it since it is my first HF radio, but my family needs to come first and I know I can always buy another rig next year when I have a better job (I recently graduated with my B.S. in business administration so I'm still trying to find something to use it with). I appreciate any help you guys can give me.

Paul Allen
KE7TYY

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23639. Re: Thinking of selling TS-520SE, need input

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-26 22:22:10 UTC
From: kj4aur
Topic: 23635 Message: 23639

Hi Paul, there's a few things in life that I've learned. One is never sell a good working firearm or radio, as soon as you do, you'll spend the rest of your life trying to get it back.

Keep the 520 :)

--- In TS-520_820_530_830@yahoogroups.com, James Allen <jp.paul.allen@...> wrote:
>
> Hi all. Things aren't going so well and I am thinking that in order to
> provide my family with a good christmas I will need to sell my TS-520SE. I
> need some input on an asking price. It is in excellent cosmetic condition
> and I tested it into a dummy load on all bands and I can get 100+ watts out.
> It is very clean inside and did not come from a smoking home. I also have
> the MC-50 in excellent condition as well as the SP-520 in excellent
> condition. How much should I ask for when listing this combo for sale? I am
> planning on listing it locally first so that I do not have to mess with
> shipping it, unless someone on here really wants to buy it. I've looked at
> ebay and seen a 520SE go for nearly $400 in good condition, the mike go for
> anywhere from $50 to over $100, and the speaker go for about $45 lately.
>
> I'm bummed about having to sell it since it is my first HF radio, but my
> family needs to come first and I know I can always buy another rig next year
> when I have a better job (I recently graduated with my B.S. in business
> administration so I'm still trying to find something to use it with). I
> appreciate any help you guys can give me.
>
> Paul Allen
> KE7TYY
>
>
> [Non-text portions of this message have been removed]
>

23640. TS830S Burghardt Repairs - ongoing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-26 22:24:33 UTC
From: jwarnerr
Topic: 23640 Message: 23640

I previously reported my ts830s had 60ma bias and 850-900v HV but would not load, after a 10 year hiatus in storage. Nothing suggested here helped so the radio was shipped to Burghardt for repairs - and is back and tried.

Burghardt traced the problem to electrolytics gone bad and mentioned the radio was 'badly' out of alignment. The alignment is was new to me because prior to the shipping the digital display was spot-on in receive. The radio is back and was tried today, to the following very disappointing results!

The radio will put out only about 60-70 watts max and the digital display is OFF by about 8kc (low). This after nearly $500 expended in shipping and repairs. Im extremely disappointed.

The fact of the digital display being suddenly off puzzles me because the radio was spot-on prior to sending to Burghardt. But, when I tune to WWV (10mhz) or calibrate (25kc)the dig display is spot-on. Then when I go to find a dxer (posted on the cluster) the radio's display is low by almost 8kc, in every band. Is there any quick way to realign my digital display ? How can it be spot-on at WWV and in Calibrate but off when I go to find a dx station? Could any of this be due to Burghardt's "re-alignment" Jim Smith says Burghardt did?

And what accounts for my only having 60-70 watts output after spending $450 with Burghardt!?

Im rather put out at this whole situation -

kg0ei

23641. Re: [TS-520_820_530_830] TS830S Burghardt Repairs - ongoing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-26 22:40:37 UTC
From: Dave ve3wej
Topic: 23640 Message: 23641

before discussing here, did you ask Burghardt, and did they say anything to
answer your questions.....

are you measure=inginto a dummy load, how did you find 8kc out on receive.
who says the other stations are not all off by 8kc

----- Original Message -----
From: "jwarnerr" <jwarner1@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, November 26, 2009 5:24 PM
Subject: [TS-520_820_530_830] TS830S Burghardt Repairs - ongoing

>I previously reported my ts830s had 60ma bias and 850-900v
> HV but would not load, after a 10 year hiatus in storage.
> Nothing suggested here helped so the radio was shipped to
> Burghardt for repairs - and is back and tried.
>
> Burghardt traced the problem to electrolytics gone bad and
> mentioned the radio was 'badly' out of alignment. The alignment
> is was new to me because prior to the shipping the digital display
> was spot-on in receive. The radio is back and was tried today, to
> the following very disappointing results!
>
> The radio will put out only about 60-70 watts max and the digital
> display is OFF by about 8kc (low). This after nearly $500 expended
> in shipping and repairs. Im extremely disappointed.
>
> The fact of the digital display being suddenly off puzzles me
> because the radio was spot-on prior to sending to Burghardt. But,
> when I tune to WWV (10mhz) or calibrate (25kc)the dig display is
> spot-on. Then when I go to find a dxer (posted on the cluster)
> the radio's display is low by almost 8kc, in every band. Is there
> any quick way to realign my digital display ? How can it be spot-on
> at WWV and in Calibrate but off when I go to find a dx station?
> Could any of this be due to Burghardt's "re-alignment" Jim Smith
> says Burghardt did?
>
> And what accounts for my only having 60-70 watts output after
> spending $450 with Burghardt!?
>
> Im rather put out at this whole situation -
>
> kg0ei
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> Yahoo! Groups Links
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23642. Re: TS830S Burghardt Repairs - ongoing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-26 23:50:09 UTC
From: jwarnerr
Topic: 23640 Message: 23642

I have not talked to Burghardt yet. Will tomorrow or asap. Its
Thanksgiving?

Yes. I measured into a dummy load. I have several very accurate watt/swr meters and an
antenna of known traits on 40 meters. SWR of my ant
at 7025 is 1:1.2

who says my receiver is off? I do. Are you claiming that every one
posting to the cluster is off by 8-7 kc? Are you claiming my other radios receive at 7025
but my ts830 fresh from Burghardt receives
at 7024.2 so not only is everyone at the cluster wrong but all of my
other radios (long used/well known traits) are wrong ... all to save
Burghardt reputation? That OM is a wild claim if that is what you
are driving at.

Im sorry to be short but Im a bit upset and justfiably so.

--- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@...> wrote:
>
> before discussing here, did you ask Burghardt, and did they say anything to
> answer your questions.....
>
>
> are you measure=inginto a dummy load, how did you find 8kc out on receive.
> who says the other stations are not all off by 8kc
>
> ----- Original Message -----
> From: "jwarnerr" <jwarner1@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Thursday, November 26, 2009 5:24 PM
> Subject: [TS-520_820_530_830] TS830S Burghardt Repairs - ongoing
>
>
> >I previously reported my ts830s had 60ma bias and 850-900v
> > HV but would not load, after a 10 year hiatus in storage.
> > Nothing suggested here helped so the radio was shipped to
> > Burghardt for repairs - and is back and tried.
> >
> > Burghardt traced the problem to electrolytics gone bad and
> > mentioned the radio was 'badly' out of alignment. The alignment
> > is was new to me because prior to the shipping the digital display
> > was spot-on in receive. The radio is back and was tried today, to
> > the following very disappointing results!
> >
> > The radio will put out only about 60-70 watts max and the digital
> > display is OFF by about 8kc (low). This after nearly $500 expended

> > in shipping and repairs. Im extremely disappointed.
> >
> > The fact of the digital display being suddenly off puzzles me
> > because the radio was spot-on prior to sending to Burghardt. But,
> > when I tune to WWV (10mhz) or calibrate (25kc)the dig display is
> > spot-on. Then when I go to find a dxer (posted on the cluster)
> > the radio's display is low by almost 8kc, in every band. Is there
> > any quick way to realign my digital display ? How can it be spot-on
> > at WWV and in Calibrate but off when I go to find a dx station?
> > Could any of this be due to Burghardt's "re-alignment" Jim Smith
> > says Burghardt did?
> >
> > And what accounts for my only having 60-70 watts output after
> > spending $450 with Burghardt!?
> >
> > Im rather put out at this whole situation -
> >
> > kg0ei
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> > Yahoo! Groups Links
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23643. RE: [TS-520_820_530_830] Re: TS830S Burghardt Repairs - ongoing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-27 00:17:25 UTC
From: Dick Merryman
Topic: 23640 Message: 23643

The difference between 7025 KHz and 7024.2 KHz is 0.8 KHz not 8 KHz. Maybe your problem is not so bad after all. Is your RIT turned off?

-Dick-
N3XRU

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of jwarnerr
Sent: Thursday, November 26, 2009 3:50 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS830S Burghardt Repairs - ongoing

I have not talked to Burghardt yet. Will tomorrow or asap. Its Thanksgiving?

Yes. I measured into a dummy load. I have several very accurate watt/swr meters and an antenna of known traits on 40 meters. SWR of my ant at 7025 is 1:1.2

who says my receiver is off? I do. Are you claiming that every one posting to the cluster is off by 8-7 kc? Are you claiming my other radios receive at 7025 but my ts830 fresh from Burghardt receives at 7024.2 so not only is everyone at the cluster wrong but all of my other radios (long used/well known traits) are wrong ... all to save Burghardt reputation? That OM is a wild claim if that is what you are driving at.

Im sorry to be short but Im a bit upset and justfiably so.

--- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com> 830@yahoogroups.com, "Dave ve3wej" <ve3wej@...> wrote:
>
> before discussing here, did you ask Burghardt, and did they say anything to
> answer your questions.....
>
>
> are you measure=inginto a dummy load, how did you find 8kc out on receive.

> who says the other stations are not all off by 8kc
>
> ----- Original Message -----
> From: "jwarnerr" <jwarner1@...>
> To: <TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com> 830@yahoogroups.com>

> Sent: Thursday, November 26, 2009 5:24 PM
> Subject: [TS-520_820_530_830] TS830S Burghardt Repairs - ongoing
>
>
> >I previously reported my ts830s had 60ma bias and 850-900v
> > HV but would not load, after a 10 year hiatus in storage.
> > Nothing suggested here helped so the radio was shipped to
> > Burghardt for repairs - and is back and tried.
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> > Burghardt traced the problem to electrolytics gone bad and
> > mentioned the radio was 'badly' out of alignment. The alignment
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> > was spot-on in receive. The radio is back and was tried today, to
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> > because the radio was spot-on prior to sending to Burghardt. But,
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> > the radio's display is low by almost 8kc, in every band. Is there
> > any quick way to realign my digital display ? How can it be spot-on
> > at WWV and in Calibrate but off when I go to find a dx station?
> > Could any of this be due to Burghardt's "re-alignment" Jim Smith
> > says Burghardt did?
> >
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> > spending $450 with Burghardt!?
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[Non-text portions of this message have been removed]

23644. Re: [TS-520_820_530_830] Thinking of selling TS-520SE, need input

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-26 23:27:20 UTC
From: James Allen
Topic: 23635 Message: 23644

I do have a 2 year old, but I talked with my wife after sending out the
e-mail. She was surpisingly understanding and actually does not want me to
sell the radio because I got a really good deal on it ($100 for the radio,
mic, and speaker in working condition). So I will not have to consider
selling it anymore thankfully.

Paul
KE7TYY

On Thu, Nov 26, 2009 at 2:51 PM, John Cox <n4mcy@...> wrote:

>
>
> Unless you have children and you were talking about mom, dad, and siblings
> when you said family, don't sell your radio. Tell them you don't have the
> money this year. If they get angry, look for a new family.
>
> --- On Thu, 11/26/09, James Allen <jp.paul.allen@...<jp.paul.allen%40gmail.com>>
> wrote:
>
> From: James Allen <jp.paul.allen@... <jp.paul.allen%40gmail.com>>
> Subject: [TS-520_820_530_830] Thinking of selling TS-520SE, need input
> To: "ts-520_820_530_830"
<ts-520_820_530_830@yahoogroups.com<ts-520_820_530_830%40yahoogroups.com>
> >
> Date: Thursday, November 26, 2009, 5:36 PM
>
>
>
>
> Hi all. Things aren't going so well and I am thinking that in order to
> provide my family with a good christmas I will need to sell my TS-520SE. I
> need some input on an asking price. It is in excellent cosmetic condition
> and I tested it into a dummy load on all bands and I can get 100+ watts
> out.
> It is very clean inside and did not come from a smoking home. I also have
> the MC-50 in excellent condition as well as the SP-520 in excellent
> condition. How much should I ask for when listing this combo for sale? I am
> planning on listing it locally first so that I do not have to mess with
> shipping it, unless someone on here really wants to buy it. I've looked at
> ebay and seen a 520SE go for nearly $400 in good condition, the mike go for
> anywhere from $50 to over $100, and the speaker go for about $45 lately.
>
> I'm bummed about having to sell it since it is my first HF radio, but my
> family needs to come first and I know I can always buy another rig next
> year

> when I have a better job (I recently graduated with my B.S. in business
> administration so I'm still trying to find something to use it with). I
> appreciate any help you guys can give me.
>
> Paul Allen
> KE7TYY
>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
>
>
>

[Non-text portions of this message have been removed]

23645. Re: TS830S Burghardt Repairs - ongoing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-27 01:18:55 UTC
From: Eric Zerkle
Topic: 23640 Message: 23645

Why did they charge you $500.00 to retune your rig and replace the caps? Those caps are not that expensive! They owe you a tune up and to make your rig like it was new. I hate that when i send a radio to someone and it comes back working worse than it was when i sent it out!

[Non-text portions of this message have been removed]

23646. Re: [TS-520_820_530_830] Re: TS830S Burghardt Repairs - ongoing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-27 02:44:08 UTC
From: Ruben Echevarria
Topic: 23640 Message: 23646

I'm sorry but $500.00 is over the top, way over.
 Ruben Echevarria KA2HHB
070 Club#861 30MDG#1148
10-10#33308

From: Eric Zerkle <kc9guz@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thu, November 26, 2009 8:18:55 PM
Subject: [TS-520_820_530_830] Re: TS830S Burghardt Repairs - ongoing

Why did they charge you $500.00 to retune your rig and replace the caps? Those caps are not that expensive! They owe you a tune up and to make your rig like it was new. I hate that when i send a radio to someone and it comes back working worse than it was when i sent it out!

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23647. Re: [TS-520_820_530_830] Thinking of selling TS-520SE, need input

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-27 01:55:34 UTC
From: John Schroeder
Topic: 23635 Message: 23647

Happy to hear you decided not to sell...

Have a Collins S-Line here... ALMOST!!! Almost sold it, MAN! Am I happy I did not...

John ... KB9PBM ... Happy Thanksgiving everybody...

--- On Thu, 11/26/09, James Allen <jp.paul.allen@...> wrote:

From: James Allen <jp.paul.allen@gmail.com>
Subject: Re: [TS-520_820_530_830] Thinking of selling TS-520SE, need input
To: TS-520_820_530_830@yahoogroups.com
Date: Thursday, November 26, 2009, 5:27 PM

I do have a 2 year old, but I talked with my wife after sending out the
e-mail. She was surpisingly understanding and actually does not want me to
sell the radio because I got a really good deal on it ($100 for the radio,
mic, and speaker in working condition). So I will not have to consider
selling it anymore thankfully.

Paul
KE7TYY

On Thu, Nov 26, 2009 at 2:51 PM, John Cox <n4mcy@yahoo. com> wrote:

>
>
> Unless you have children and you were talking about mom, dad, and siblings
> when you said family, don't sell your radio. Tell them you don't have the
> money this year. If they get angry, look for a new family.
>
> --- On Thu, 11/26/09, James Allen <jp.paul.allen@ gmail.com<jp.paul.allen% 40gmail.com>
>
> wrote:
>
> From: James Allen <jp.paul.allen@ gmail.com <jp.paul.allen% 40gmail.com> >
> Subject: [TS-520_820_ 530_830] Thinking of selling TS-520SE, need input
> To: "ts-520_820_ 530_830" <ts-520_820_530_ 830@yahoogroups. com<ts-520_820_
530_830%40yahoog roups.com>
> >
> Date: Thursday, November 26, 2009, 5:36 PM
>
>
>
>
>
> Hi all. Things aren't going so well and I am thinking that in order to
> provide my family with a good christmas I will need to sell my TS-520SE. I
> need some input on an asking price. It is in excellent cosmetic condition

> and I tested it into a dummy load on all bands and I can get 100+ watts
> out.
> It is very clean inside and did not come from a smoking home. I also have
> the MC-50 in excellent condition as well as the SP-520 in excellent
> condition. How much should I ask for when listing this combo for sale? I am
> planning on listing it locally first so that I do not have to mess with
> shipping it, unless someone on here really wants to buy it. I've looked at
> ebay and seen a 520SE go for nearly $400 in good condition, the mike go for
> anywhere from $50 to over $100, and the speaker go for about $45 lately.
>
> I'm bummed about having to sell it since it is my first HF radio, but my
> family needs to come first and I know I can always buy another rig next
> year
> when I have a better job (I recently graduated with my B.S. in business
> administration so I'm still trying to find something to use it with). I
> appreciate any help you guys can give me.
>
> Paul Allen
> KE7TYY
>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
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>

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[Non-text portions of this message have been removed]

23648. RE: [TS-520_820_530_830] Re: TS830S Burghardt Repairs - ongoing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-27 04:36:03 UTC
From: Adrian Ellison
Topic: 23640 Message: 23648

This is correct if you're tuning a cw signal, 800hz being the beat note, the display should change to 7025khz on key down though ...

Regards

Adrian - ZS1TTZ

23649. TS-820S AF-AVR board

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-27 04:29:14 UTC
From: stilesjoseph
Topic: 19947 Message: 23649

need help. my manual states in Section 6.3 "Adjustment of 9V AVR Voltage" ...adjust VR4 for 9V between terminal "9" and chassis. I think I am using the right wire/terminal..but get no voltage reading...any ideas? Oh what is the identification of the big white VR on that board?? I can not see any marking on the board...is it VR3?? tnx!

23650. Re: TS830S Burghardt Repairs - ongoing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-27 04:33:33 UTC
From: jwarnerr
Topic: 23640 Message: 23650

I have the itemised bill but dont think its appropriate to
share it here until I talk to Burghardt, but now Im in a mess
I did not need.

I dont even know what "realignment" they did but whatever they
did the receive digital display is now off more than is
acceptable. (Wouldnt they check this while realigning?)

Wouldnt they check the power output?

But, included in my box was a bill and parts for another guy!
A David Mansoir AC6CG for repairs on his FT-767GX, which has
nothing to do with me.

Hopfully I can get somebody at Burghardt tomorrow and save
myself. Hopfully Mr. Mansoir got his radio back ok...

--- In TS-520_820_530_830@yahoogroups.com, Eric Zerkle <kc9guz@...> wrote:
>
> Why did they charge you $500.00 to retune your rig and replace the caps? Those caps are not that expensive! They owe you a tune up and to make your rig like it was new. I hate that when i send a radio to someone and it comes back working worse than it was when i sent it out!
>
>
>
>
> [Non-text portions of this message have been removed]
>

23651. Re: [TS-520_820_530_830] Re: TS830S Burghardt Repairs - ongoing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-27 05:33:31 UTC
From: vlincoln@frontiernet.net
Topic: 23640 Message: 23651

Wanted to pass along this info from the ARRL:

The ARRL Letter, Vol 28, No 11 (Friday, March 20, 2009)

* Burghardt to No Longer Sell Amateur Radio Equipment: On March 16, Jim Smith, W0MJY, owner of Burghardt Amateur Center in Watertown, South Dakota <http://www.burghardt-amateur.com/>, announced that the company will no longer sell Amateur Radio transceivers and accessories. The company, now called Burghardt Radio Repair, has canceled all backorders. In an e-mail, Smith blamed the current economic conditions for the change that forced the company "to re-evaluate our goals and direction. We will continue to provide radio repair service as it has become a very busy business. Our technicians are very experienced and parts inventories are good. Thank you for your support in the past and we look forward to continuing our relationships through our servicing facility." Jim Smith's son, Mike Smith, KC0FTM, told the ARRL that even though the company has had to lay off employees in the past couple of months, "Burghardt will concentrate on service, just like we have been doing since 1973." Burghardt was founded in 1937 by Stan Burghardt, W0IT (SK), as Burghardt Radio Supply. He sold the company to Smith in 1982, remaining active in the company until January 2002. Burghardt passed away in 2004 at the age of 93.

At 04:33 11/27/2009, you wrote:
>
>
>
>I have the itemised bill but dont think its appropriate to
>share it here until I talk to Burghardt, but now Im in a mess
>I did not need.
>
>I dont even know what "realignment" they did but whatever they
>did the receive digital display is now off more than is
>acceptable. (Wouldnt they check this while realigning?)
>
>Wouldnt they check the power output?
>
>But, included in my box was a bill and parts for another guy!
>A David Mansoir AC6CG for repairs on his FT-767GX, which has
>nothing to do with me.
>
>Hopfully I can get somebody at Burghardt tomorrow and save
>myself. Hopfully Mr. Mansoir got his radio back ok...
>
>--- In
><mailto:TS-520_820_530_830%40yahoogroups.com>TS-520_820_530_830@yahoogroups.com,

>Eric Zerkle <kc9guz@...> wrote:
> >
> > Why did they charge you $500.00 to retune
> your rig and replace the caps? Those caps are
> not that expensive! They owe you a tune up and
> to make your rig like it was new. I hate that
> when i send a radio to someone and it comes
> back working worse than it was when i sent it out!
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
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>

[Non-text portions of this message have been removed]

23652. Re: [TS-520_820_530_830] Re: TS830S Burghardt Repairs - ongoing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-27 05:56:37 UTC
From: n6wk@n6wk.com
Topic: 23640 Message: 23652

I repair and Align these radios on a Regular Basis.
I would LOVE to see an Itemized bill that came to $500.00
I did buy a TS-520 from a fellow that had sent it to Burghardt for
repairs.
They sent it back to him as "Unrepairable"
I checked it out and found that there was a broken wire inside the VFO.
Fixed the wire, aligned the radio and it has worked Great ever since.
I had about 2 hours of time in repairing it.
$500.00 for just a repair and alignment is totally out of line in my
opinion.
Please keep us all updated.
Gordon
N6WK

jwarnerr wrote:
>
>
>
> I have the itemised bill but dont think its appropriate to
> share it here until I talk to Burghardt, but now Im in a mess
> I did not need.
>
> I dont even know what "realignment" they did but whatever they
> did the receive digital display is now off more than is
> acceptable. (Wouldnt they check this while realigning?)
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> Wouldnt they check the power output?
>
> But, included in my box was a bill and parts for another guy!
> A David Mansoir AC6CG for repairs on his FT-767GX, which has
> nothing to do with me.
>
> Hopfully I can get somebody at Burghardt tomorrow and save
> myself. Hopfully Mr. Mansoir got his radio back ok...
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, Eric Zerkle
> <kc9guz@...> wrote:
> >
> > Why did they charge you $500.00 to retune your rig and replace the
> caps? Those caps are not that expensive! They owe you a tune up and to
> make your rig like it was new. I hate that when i send a radio to
> someone and it comes back working worse than it was when i sent it out!
> >
> >

> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>

23653. Re: [TS-520_820_530_830] Re: TS830S Burghardt Repairs - ongoing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-27 08:35:08 UTC
From: Ruben Echevarria
Topic: 23640 Message: 23653

Could have picked up another rig for that price ..... Unbelievable.
 Ruben Echevarria KA2HHB
070 Club#861 30MDG#1148
10-10#33308

From: "n6wk@..." <n6wk@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Fri, November 27, 2009 12:56:37 AM
Subject: Re: [TS-520_820_530_830] Re: TS830S Burghardt Repairs - ongoing

I repair and Align these radios on a Regular Basis.
I would LOVE to see an Itemized bill that came to $500.00
I did buy a TS-520 from a fellow that had sent it to Burghardt for
repairs.
They sent it back to him as "Unrepairable"
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Fixed the wire, aligned the radio and it has worked Great ever since.
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$500.00 for just a repair and alignment is totally out of line in my
opinion.
Please keep us all updated.
Gordon
N6WK

jwarnerr wrote:
>
>
>
> I have the itemised bill but dont think its appropriate to
> share it here until I talk to Burghardt, but now Im in a mess
> I did not need.
>
> I dont even know what "realignment" they did but whatever they
> did the receive digital display is now off more than is
> acceptable. (Wouldnt they check this while realigning?)
>
> Wouldnt they check the power output?
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> But, included in my box was a bill and parts for another guy!
> A David Mansoir AC6CG for repairs on his FT-767GX, which has
> nothing to do with me.
>
> Hopfully I can get somebody at Burghardt tomorrow and save
> myself. Hopfully Mr. Mansoir got his radio back ok...
>

> --- In TS-520_820_530_ 830@yahoogroups. com
> <mailto:TS-520_ 820_530_830% 40yahoogroups. com>, Eric Zerkle
> <kc9guz@...> wrote:
> >
> > Why did they charge you $500.00 to retune your rig and replace the
> caps? Those caps are not that expensive! They owe you a tune up and to
> make your rig like it was new. I hate that when i send a radio to
> someone and it comes back working worse than it was when i sent it out!
> >
> >
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> >
> > [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

23654. Re: [TS-520_820_530_830] Re: TS830S Burghardt Repairs - ongoing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-27 10:23:32 UTC
From: Daniel TOESCA
Topic: 23640 Message: 23654

When you're in love you don't count.....

2009/11/27, Ruben Echevarria <ka2hhb_2000@...>:
>
>
>
> Could have picked up another rig for that price ..... Unbelievable.
> Ruben Echevarria KA2HHB
> 070 Club#861 30MDG#1148
> 10-10#33308
>
> _____
> From: "n6wk@... <n6wk%40n6wk.com>" <n6wk@... <n6wk%40n6wk.com>>
> To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> Sent: Fri, November 27, 2009 12:56:37 AM
> Subject: Re: [TS-520_820_530_830] Re: TS830S Burghardt Repairs - ongoing
>
>
>
> I repair and Align these radios on a Regular Basis.
> I would LOVE to see an Itemized bill that came to $500.00
> I did buy a TS-520 from a fellow that had sent it to Burghardt for
> repairs.
> They sent it back to him as "Unrepairable"
> I checked it out and found that there was a broken wire inside the VFO.
> Fixed the wire, aligned the radio and it has worked Great ever since.
> I had about 2 hours of time in repairing it.
> $500.00 for just a repair and alignment is totally out of line in my
> opinion.
> Please keep us all updated.
> Gordon
> N6WK
>
> jwarnerr wrote:
> >
> >
> >
> > I have the itemised bill but dont think its appropriate to
> > share it here until I talk to Burghardt, but now Im in a mess
> > I did not need.
> >
> > I dont even know what "realignment" they did but whatever they
> > did the receive digital display is now off more than is
> > acceptable. (Wouldnt they check this while realigning?)
> >

> > Wouldnt they check the power output?
> >
> > But, included in my box was a bill and parts for another guy!
> > A David Mansoir AC6CG for repairs on his FT-767GX, which has
> > nothing to do with me.
> >
> > Hopfully I can get somebody at Burghardt tomorrow and save
> > myself. Hopfully Mr. Mansoir got his radio back ok...
> >
> > --- In TS-520_820_530_ 830@yahoogroups. com
> > <mailto:TS-520_ 820_530_830% 40yahoogroups. com>, Eric Zerkle
> > <kc9guz@...> wrote:
> > >
> > > Why did they charge you $500.00 to retune your rig and replace the
> > caps? Those caps are not that expensive! They owe you a tune up and to
> > make your rig like it was new. I hate that when i send a radio to
> > someone and it comes back working worse than it was when i sent it out!
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> > > [Non-text portions of this message have been removed]
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23655. Re: TS830S Burghardt Repairs - ongoing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-27 10:41:17 UTC
From: jwarnerr
Topic: 23640 Message: 23655

Ok. The parts section of the bill is as follows:
1 - KP000036 coupler 12.00
2 - KP000020 150UF 500V 18.97@ 37.94
2 - RE000022 470k 1/2w .99@ 1.98

everything else is shipping and labor. It looks like 5 hours
labor at $75 per hour. Total 478.98 and it cost me $52.00 to
ship the radio to them. Total $538.98.

I never even approved the work. I got an email at home in the
evening from Smith saying to call him. I assumed he had an estimate so called him
firstthing the next morning and he reported "the work
is already done". When I heard the bill I flipped but paid it.
JW

Can you contact me privately -
Jerry Warner (jwarner1@...)

--- In TS-520_820_530_830@yahoogroups.com, n6wk@... wrote:
>
> I repair and Align these radios on a Regular Basis.
> I would LOVE to see an Itemized bill that came to $500.00
> I did buy a TS-520 from a fellow that had sent it to Burghardt for
> repairs.
> They sent it back to him as "Unrepairable"
> I checked it out and found that there was a broken wire inside the VFO.
> Fixed the wire, aligned the radio and it has worked Great ever since.
> I had about 2 hours of time in repairing it.
> $500.00 for just a repair and alignment is totally out of line in my
> opinion.
> Please keep us all updated.
> Gordon
> N6WK
>
>
> jwarnerr wrote:
> >
> >
> >
> > I have the itemised bill but dont think its appropriate to
> > share it here until I talk to Burghardt, but now Im in a mess
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> >
> > I dont even know what "realignment" they did but whatever they
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> > acceptable. (Wouldnt they check this while realigning?)

> >
> > Wouldnt they check the power output?
> >
> > But, included in my box was a bill and parts for another guy!
> > A David Mansoir AC6CG for repairs on his FT-767GX, which has
> > nothing to do with me.
> >
> > Hopfully I can get somebody at Burghardt tomorrow and save
> > myself. Hopfully Mr. Mansoir got his radio back ok...
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, Eric Zerkle
> > <kc9guz@> wrote:
> > >
> > > Why did they charge you $500.00 to retune your rig and replace the
> > caps? Those caps are not that expensive! They owe you a tune up and to
> > make your rig like it was new. I hate that when i send a radio to
> > someone and it comes back working worse than it was when i sent it out!
> > >
> > >
> > >
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> > > [Non-text portions of this message have been removed]
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> >
>

23656. Re: TS830S Burghardt Repairs - ongoing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-27 10:52:29 UTC
From: jwarnerr
Topic: 23640 Message: 23656

Yes. Easily. They go for $300-$350 in clean working condx
around here. That is why I didnt approve the work ahead of
time until an estimate, and then when Smith emailed and I
called the next day to get what I assumed was his estimate,
he said the work was already done.

What did they do for five hours at $75/hour that winds up
with a radio like this? Two caps and two resistors at the caps
and coupler dont add up to five hours? It must have been the
realignment they said needed to be done? I just dont know.

--- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria <ka2hhb_2000@...> wrote:
>
> Could have picked up another rig for that price ..... Unbelievable.
> Â Ruben Echevarria KA2HHB
> 070 Club#861 30MDG#1148
> 10-10#33308
>
>
>
>
> _____
> From: "n6wk@..." <n6wk@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Fri, November 27, 2009 12:56:37 AM
> Subject: Re: [TS-520_820_530_830] Re: TS830S Burghardt Repairs - ongoing
>
> Â
> I repair and Align these radios on a Regular Basis.
> I would LOVE to see an Itemized bill that came to $500.00
> I did buy a TS-520 from a fellow that had sent it to Burghardt for
> repairs.
> They sent it back to him as "Unrepairable"
> I checked it out and found that there was a broken wire inside the VFO.
> Fixed the wire, aligned the radio and it has worked Great ever since.
> I had about 2 hours of time in repairing it.
> $500.00 for just a repair and alignment is totally out of line in my
> opinion.
> Please keep us all updated.
> Gordon
> N6WK
>
> jwarnerr wrote:
> >
> >

> >
> > I have the itemised bill but dont think its appropriate to
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> > Hopfully I can get somebody at Burghardt tomorrow and save
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> > --- In TS-520_820_530_ 830@yahoogroups. com
> > <mailto:TS-520_ 820_530_830% 40yahoogroups. com>, Eric Zerkle
> > <kc9guz@> wrote:
> > >
> > > Why did they charge you $500.00 to retune your rig and replace the
> > caps? Those caps are not that expensive! They owe you a tune up and to
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> > someone and it comes back working worse than it was when i sent it out!
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> [Non-text portions of this message have been removed]
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23657. Re: TS830S Burghardt Repairs - ongoing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-27 10:56:20 UTC
From: jwarnerr
Topic: 23640 Message: 23657

Believe me it had nothing to do with love (on my part).
I wanted the radio repaired but not like this! The xmit
side still doesnt work and now the receive side is out of
alignment which is brand new.All in work I didnt even approve!

--- In TS-520_820_530_830@yahoogroups.com, Daniel TOESCA <ON5PY1967@...> wrote:
>
> When you're in love you don't count.....
>
> 2009/11/27, Ruben Echevarria <ka2hhb_2000@...>:
> >
> >
> >
> > Could have picked up another rig for that price ..... Unbelievable.
> > Ruben Echevarria KA2HHB
> > 070 Club#861 30MDG#1148
> > 10-10#33308
> >
> > _____
> > From: "n6wk@... <n6wk%40n6wk.com>" <n6wk@... <n6wk%40n6wk.com>>
> > To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> > Sent: Fri, November 27, 2009 12:56:37 AM
> > Subject: Re: [TS-520_820_530_830] Re: TS830S Burghardt Repairs - ongoing
> >
> >
> >
> > I repair and Align these radios on a Regular Basis.
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> > Please keep us all updated.
> > Gordon
> > N6WK
> >
> > jwarnerr wrote:
> > >
> > >
> > >
> > > I have the itemised bill but dont think its appropriate to

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> > > I dont even know what "realignment" they did but whatever they
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> > > Hopfully I can get somebody at Burghardt tomorrow and save
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> > > --- In TS-520_820_530_ 830@yahoogroups. com
> > > <mailto:TS-520_ 820_530_830% 40yahoogroups. com>, Eric Zerkle
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> > > > Why did they charge you $500.00 to retune your rig and replace the
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> > > someone and it comes back working worse than it was when i sent it out!
> > > >
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> > > > [Non-text portions of this message have been removed]
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> > [Non-text portions of this message have been removed]
> >

23658. Re: TS830S Burghardt Repairs - ongoing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-27 11:07:59 UTC
From: jwarnerr
Topic: 23640 Message: 23658

--- In TS-520_820_530_830@yahoogroups.com, n6wk@... wrote:
>
I hate to keep posting abt this but back to my original question:
If I wind up with this radio and its 60-70watts output on 40 mtrs,
is there anything I can do to get the digital display on the receive side back in
alignment? Or is this something only a tech can do that has implication for transmit
alignment, and who knows what else?

I am astounded this radio comes back to me with the receive side
now out of alignment because as God is my witness the receive side
WAS NOT out of alignment prior to Burghart's work. I had had the
radio out and been copying with it prior to sending it to 'B' and
the receive side digital display was spot-on (and always had been.

Thanks for any technical help -
Jerry

> I repair and Align these radios on a Regular Basis.
> I would LOVE to see an Itemized bill that came to $500.00
> I did buy a TS-520 from a fellow that had sent it to Burghardt for
> repairs.
> They sent it back to him as "Unrepairable"
> I checked it out and found that there was a broken wire inside the VFO.
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> $500.00 for just a repair and alignment is totally out of line in my
> opinion.
> Please keep us all updated.
> Gordon
> N6WK
>
>
> jwarnerr wrote:
> >
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> >
> > I have the itemised bill but dont think its appropriate to
> > share it here until I talk to Burghardt, but now Im in a mess
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> > But, included in my box was a bill and parts for another guy!
> > A David Mansoir AC6CG for repairs on his FT-767GX, which has
> > nothing to do with me.
> >
> > Hopfully I can get somebody at Burghardt tomorrow and save
> > myself. Hopfully Mr. Mansoir got his radio back ok...
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, Eric Zerkle
> > <kc9guz@> wrote:
> > >
> > > Why did they charge you $500.00 to retune your rig and replace the
> > caps? Those caps are not that expensive! They owe you a tune up and to
> > make your rig like it was new. I hate that when i send a radio to
> > someone and it comes back working worse than it was when i sent it out!
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> > > [Non-text portions of this message have been removed]
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23659. Re: [TS-520_820_530_830] Re: TS830S Burghardt Repairs - ongoing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-27 16:32:49 UTC
From: n6wk@n6wk.com
Topic: 23640 Message: 23659

WOW.....
The Coupler price is fair.
The Caps, They Gouged you on. I can buy those Caps from Digi-Parts for
LESS then half that.
The Resistors are a bit high, but still not going to break the Bank.
The Labor..... OUCH!!!
Not giving you an estimate first... Criminal. (and probably is Illegal)

73,
Gordon

jwarnerr wrote:
>
>
>
> Ok. The parts section of the bill is as follows:
> 1 - KP000036 coupler 12.00
> 2 - KP000020 150UF 500V 18.97@ 37.94
> 2 - RE000022 470k 1/2w .99@ 1.98
>
> everything else is shipping and labor. It looks like 5 hours
> labor at $75 per hour. Total 478.98 and it cost me $52.00 to
> ship the radio to them. Total $538.98.
>
> I never even approved the work. I got an email at home in the
> evening from Smith saying to call him. I assumed he had an estimate so
> called him firstthing the next morning and he reported "the work
> is already done". When I heard the bill I flipped but paid it.
> JW
>
> Can you contact me privately -
> Jerry Warner (jwarner1@... <mailto:jwarner1%40mchsi.com>)
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, n6wk@... wrote:
> >
> > I repair and Align these radios on a Regular Basis.
> > I would LOVE to see an Itemized bill that came to $500.00
> > I did buy a TS-520 from a fellow that had sent it to Burghardt for
> > repairs.
> > They sent it back to him as "Unrepairable"
> > I checked it out and found that there was a broken wire inside the VFO.
> > Fixed the wire, aligned the radio and it has worked Great ever since.
> > I had about 2 hours of time in repairing it.
> > $500.00 for just a repair and alignment is totally out of line in my

> > opinion.
> > Please keep us all updated.
> > Gordon
> > N6WK
> >
> >
> > jwarnerr wrote:
> > >
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> > > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > > <mailto:TS-520_820_530_830%40yahoogroups.com>, Eric Zerkle
> > > <kc9guz@> wrote:
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> > > > Why did they charge you $500.00 to retune your rig and replace the
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> and to
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> > > someone and it comes back working worse than it was when i sent it
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> > > > [Non-text portions of this message have been removed]
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23660. replacing HT caps in TS530

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-27 11:00:11 UTC
From: richard
Topic: 23660 Message: 23660

Hi

replacing the two electrolytics in the PSU can be a bit expensive if
purchasing from the US,, postage etc, and takes time due to the postal
delivery time. In the UK , probably the rest of the world, similar caps
are available from Farnell made by Panasonic. Slightly smaller diameter,
but easily packed with a strip of 1.5 mm teflon around the cap inside
of the mounting clamp.
One thing I noticed is that when the caps are in place you can not see
the black strip that marks the negative terminal from the component
side of the chassis.
BEWARE when the solder lugs on the capacitors are pressed on to the
internal connections the mark left on one of the terminals is either a
small square or a cross. DON'T assume that this marks the positive
terminal as done by some other capacitor manufacturers, In the packet
of caps I had this was on the negative lug.

--
Best wishes

Richard Bown

##
Registered Linux User 36561
OS: Mandriva 2010.0 Powerpack on an AMD Dual Athlon 64 +4400: 8 GB RAM
DDR2 Ham Call: G8JVM , QRA IO82SP, Interests Microwave 1.3 GHz,2.3 GHz
& 5.7GHz & 10 GHz
##

23661. Re: TS830S Burghardt Repairs - ongoing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-27 16:49:36 UTC
From: ah6rr1
Topic: 23640 Message: 23661

It takes about 30 minutes to replace the caps, alignment takes me about 1-2 hours mostly 1 hour. And once it is aligned it will have a output of 110+ watts. I have done in the last month 3 530's and 6 830's all with the same results and I am working on a 520SE now. If they replaced the band swtich coupler it should not have taken more than 20 minutes. I my opinion they didnt use vasoline or even give you a kiss.
Good Luck
73
Roland AH6RR

--- In TS-520_820_530_830@yahoogroups.com, "jwarnerr" <jwarner1@...> wrote:
>
> Yes. Easily. They go for $300-$350 in clean working condx
> around here. That is why I didnt approve the work ahead of
> time until an estimate, and then when Smith emailed and I
> called the next day to get what I assumed was his estimate,
> he said the work was already done.
>
> What did they do for five hours at $75/hour that winds up
> with a radio like this? Two caps and two resistors at the caps
> and coupler dont add up to five hours? It must have been the
> realignment they said needed to be done? I just dont know.
>
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>
> --- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria <ka2hhb_2000@> wrote:
> >
> > Could have picked up another rig for that price ..... Unbelievable.
> > Â Ruben Echevarria KA2HHB
> > 070 Club#861 30MDG#1148
> > 10-10#33308
> >
> >
> >
> >
> > _____
> > From: "n6wk@" <n6wk@>
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Fri, November 27, 2009 12:56:37 AM
> > Subject: Re: [TS-520_820_530_830] Re: TS830S Burghardt Repairs - ongoing
> >
> > Â
> > I repair and Align these radios on a Regular Basis.

> > I would LOVE to see an Itemized bill that came to $500.00
> > I did buy a TS-520 from a fellow that had sent it to Burghardt for
> > repairs.
> > They sent it back to him as "Unrepairable"
> > I checked it out and found that there was a broken wire inside the VFO.
> > Fixed the wire, aligned the radio and it has worked Great ever since.
> > I had about 2 hours of time in repairing it.
> > $500.00 for just a repair and alignment is totally out of line in my
> > opinion.
> > Please keep us all updated.
> > Gordon
> > N6WK
> >
> > jwarnerr wrote:
> > >
> > >
> > >
> > > I have the itemised bill but dont think its appropriate to
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> > > Hopfully I can get somebody at Burghardt tomorrow and save
> > > myself. Hopfully Mr. Mansoir got his radio back ok...
> > >
> > > --- In TS-520_820_530_ 830@yahoogroups. com
> > > <mailto:TS-520_ 820_530_830% 40yahoogroups. com>, Eric Zerkle
> > > <kc9guz@> wrote:
> > > >
> > > > Why did they charge you $500.00 to retune your rig and replace the
> > > caps? Those caps are not that expensive! They owe you a tune up and to
> > > make your rig like it was new. I hate that when i send a radio to
> > > someone and it comes back working worse than it was when i sent it out!
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> > > > [Non-text portions of this message have been removed]
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> > [Non-text portions of this message have been removed]
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23662. Re: TS830S Burghardt Repairs - ongoing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-27 17:03:12 UTC
From: Ken
Topic: 23640 Message: 23662

The frequencies you posted are only 800HZ different, not 8,000HZ (8KHZ). Could be the cluster posters rounded off the freq or the guy QSY's a bit to readjust for QRM? 8ooHZ is not a long way off. If you have 2 RX's try them both on WWV then both on a HAM band signal to compare the freq's.

Ken - KB7H

--- In TS-520_820_530_830@yahoogroups.com, "jwarnerr" <jwarner1@...> wrote:
>

> posting to the cluster is off by 8-7 kc? Are you claiming my other radios receive at 7025 but my ts830 fresh from Burghardt receives
> at 7024.2 so not only is everyone at the cluster wrong but all of my

23663. Re: [TS-520_820_530_830] Re: TS830S Burghardt Repairs - ongoing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-27 17:48:19 UTC
From: martin
Topic: 23640 Message: 23663

Hi. Its possible that they mixed up your repair bill with someone else's. If not, then I have to agree that the labor charges are quite excessive! I have done the alignment on my TS-530S (from the instruction manual) and it took about 30 minutes. The instructions in the TS-830S manual seem very similar. I can believe that the alignment from the service manual would take maybe an hour.

I cannot see the total repair and alignment taking more than 2 to 2.5 hours for an experienced professional. You are correct to talk to Burghardt as soon as possible. I would think that a satisfactory solution would be for them to refund at least half of the billed amount, and for them to offer to correct the problems at no further cost to you (including shipping). That is if you trust them to correct the problems.

The few times that I have had to have any repairs made (to anything), I have made it clear that no actual repairs are to be done without my permission, and that I only accept price QUOTES, not estimates. An estimate give them the option to raise the cost, a quote doesn't.

TTYL.

jwarnerr wrote:
> Yes. Easily. They go for $300-$350 in clean working condx
> around here. That is why I didnt approve the work ahead of
> time until an estimate, and then when Smith emailed and I
> called the next day to get what I assumed was his estimate,
> he said the work was already done.
>
> What did they do for five hours at $75/hour that winds up
> with a radio like this? Two caps and two resistors at the caps
> and coupler dont add up to five hours? It must have been the
> realignment they said needed to be done? I just dont know.
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> --- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria <ka2hhb_2000@...> wrote:
>> Could have picked up another rig for that price ..... Unbelievable.
>> ? Ruben Echevarria KA2HHB
>> 070 Club#861 30MDG#1148
>> 10-10#33308
>>
>>

>>
>>
>> _____
>> From: "n6wk@..." <n6wk@...>
>> To: TS-520_820_530_830@yahoogroups.com
>> Sent: Fri, November 27, 2009 12:56:37 AM
>> Subject: Re: [TS-520_820_530_830] Re: TS830S Burghardt Repairs - ongoing
>>
>> ?
>> I repair and Align these radios on a Regular Basis.
>> I would LOVE to see an Itemized bill that came to $500.00
>> I did buy a TS-520 from a fellow that had sent it to Burghardt for
>> repairs.
>> They sent it back to him as "Unrepairable"
>> I checked it out and found that there was a broken wire inside the VFO.
>> Fixed the wire, aligned the radio and it has worked Great ever since.
>> I had about 2 hours of time in repairing it.
>> $500.00 for just a repair and alignment is totally out of line in my
>> opinion.
>> Please keep us all updated.
>> Gordon
>> N6WK
>>
>> jwarnerr wrote:
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>>> I did not need.
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>>> I dont even know what "realignment" they did but whatever they
>>> did the receive digital display is now off more than is
>>> acceptable. (Wouldnt they check this while realigning?)
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>>> Wouldnt they check the power output?
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>>> But, included in my box was a bill and parts for another guy!
>>> A David Mansoir AC6CG for repairs on his FT-767GX, which has
>>> nothing to do with me.
>>>
>>> Hopfully I can get somebody at Burghardt tomorrow and save
>>> myself. Hopfully Mr. Mansoir got his radio back ok...
>>>
>>> --- In TS-520_820_530_ 830@yahoogroups. com
>>> <mailto:TS-520_ 820_530_830% 40yahoogroups. com>, Eric Zerkle
>>> <kc9guz@> wrote:
>>>> Why did they charge you $500.00 to retune your rig and replace the
>>> caps? Those caps are not that expensive! They owe you a tune up and to
>>> make your rig like it was new. I hate that when i send a radio to
>>> someone and it comes back working worse than it was when i sent it out!

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>>>> [Non-text portions of this message have been removed]
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>> [Non-text portions of this message have been removed]
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CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

23664. RE: [TS-520_820_530_830] Filters for Sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-27 18:15:38 UTC
From: Larry Louie
Topic: 23632 Message: 23664

Is your YK-88C still available> Are you located in Hawaii?

Larry

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of ah6rr1
Sent: Thursday, November 26, 2009 12:02 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Filters for Sale

I have 2 filters for sale from a TS-830S
YG-455C $75.00
YK-88C $40.00
Will have other parts available soon.
Contact me off line
Roland AH6RR

[Non-text portions of this message have been removed]

23665. Burghardt Repairs - ongoing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-27 19:21:10 UTC
From: Allan C
Topic: 23665 Message: 23665

Well now here in Oklahoma many amateurs have sent their radios in and got them back they were charged for the repair and the problem not fixed, one guy sent in his new TS-2000 and got a bill for $400. and the radio was still not fixed I have been hearing many bad things about Burghardt and was going to send a radio to them to repair and bring up to snuff but have elected to send elsewhere.

[Non-text portions of this message have been removed]

23666. Re: [TS-520_820_530_830] Burghardt Repairs - ongoing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-27 19:33:53 UTC
From: van lincoln
Topic: 23665 Message: 23666

At 13:21 11/27/2009, Allan C wrote:
>
>
>Well now here in Oklahoma many amateurs have sent their radios in and
>got them back they were charged for the repair and the problem not
>fixed, one guy sent in his new TS-2000 and got a bill for $400. and the
>radio was still not fixed I have been hearing many bad things about
>Burghardt and was going to send a radio to them to repair and bring up
>to snuff but have elected to send elsewhere.

"Allan C" <a1mc@...>

Here's one that has had a good reputation for a long time, however
I have never had a reason to use his services.
http://www.avvid.com/
Do a google search on him for other references ....

(Amateur Radio Service Center)

322 VZ County Rd 2714
Mabank, TX 75147
214-850-0973
Hours: 10AM-5PM CST Monday-Friday
The phone may not be answered outside those hours
Walk-ins by appointment only
Quality repair of Kenwood Amateur Radio Equipment Only
Shop Rate $50/hr - Minimum Charge $37.50
An estimate is $37.50 which is waived if the radio is repaired by us
An estimate CANNOT be given without seeing the radio
Payment may be made by cash, checks or money orders. No Credit Cards
IMPORTANT CHANGES TO SHIPPING, Please use Fedex or USPS, see Shipping info
Click for, <http://www.avvid.com/shipping.htm>Shipping Information
,<http://www.avvid.com/service.htm>Service and Warranty Information
E-Mail for more information
: <mailto:clif@...>clif@... Clif Holland KA5IPF

[Non-text portions of this message have been removed]

23667. K4EAA is a far better place to send your Hybrid for repair than Burghardt

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-27 19:00:48 UTC
From: W0XS
Topic: 23640 Message: 23667

Ken Kemski (ken@...) worked on my TS-830S. He did a lot of work on it and charged far less. I hope he won't mind my sharing what he did to my transceiver. He is the go-to guy for Kenwood Hybrid alignment and repair and does excellent work, plus his web site will help you make your own repairs and he'll sell you the parts you need too. I'd never send a Kenwood Hybrid to anyone else. Ken is the best for those of us who can't do our own alignment and repairs.

Basic Repair/Align Charge $229.00
Replaced HV caps with partial customer supplied kit
Replaced shaft coupler, cleaned & lubricated bandswitch, indexed front & rear sections
Cleaned and lubricated all controls and switches
Burnished, cleaned and lubricated antenna relay
Repaired Noise Blanker switch
Cleaned and lubricated fan motor assembly
Driver and Final tubes test fine, no replacement necessary.
Neutralized final section
Replaced front panel lamps
VFO intermittent/unstable. Disassembled, cleaned wiper, reassembled
Cleaned interior of rig including final cage
Completely aligned Tx and Rx - Unit tests good all bands, all modes.
Reassembled and performed final test - All OK
Additional Charge for time spent on multiple repair problems $35.00

----- Original Message -----
From: ah6rr1
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, November 27, 2009 10:49 AM
Subject: [TS-520_820_530_830] Re: TS830S Burghardt Repairs - ongoing

It takes about 30 minutes to replace the caps, alignment takes me about 1-2 hours mostly 1 hour. And once it is aligned it will have a output of 110+ watts. I have done in the last month 3 530's and 6 830's all with the same results and I am working on a 520SE now. If they replaced the band swtich coupler it should not have taken more than 20 minutes. I my opinion they didnt use vasoline or even give you a kiss.
Good Luck
73
Roland AH6RR

--- In TS-520_820_530_830@yahoogroups.com, "jwarnerr" <jwarner1@...> wrote:
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> Yes. Easily. They go for $300-$350 in clean working condx
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> time until an estimate, and then when Smith emailed and I
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> What did they do for five hours at $75/hour that winds up
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> > _____
> > From: "n6wk@" <n6wk@>
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Fri, November 27, 2009 12:56:37 AM
> > Subject: Re: [TS-520_820_530_830] Re: TS830S Burghardt Repairs - ongoing
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> > Gordon
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> > jwarnerr wrote:
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> > > --- In TS-520_820_530_ 830@yahoogroups. com
> > > <mailto:TS-520_ 820_530_830% 40yahoogroups. com>, Eric Zerkle
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23668. help

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-27 19:23:24 UTC
From: stilesjoseph
Topic: 23668 Message: 23668

need help in adjusting the voltages on the AF-AVR board of a TS-820S

23669. Re: [TS-520_820_530_830] Burghardt Repairs - ongoing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-27 20:05:29 UTC
From: van lincoln
Topic: 23665 Message: 23669

At 13:21 11/27/2009, Allan C wrote:
>
>
>Well now here in Oklahoma many amateurs have sent their radios in and
>got them back they were charged for the repair and the problem not
>fixed, one guy sent in his new TS-2000 and got a bill for $400. and the
>radio was still not fixed I have been hearing many bad things about
>Burghardt and was going to send a radio to them to repair and bring up
>to snuff but have elected to send elsewhere.

"Allan C" <<mailto:a1mc%40prodigy.net>a1mc@...>

Here's one that has had a good reputation for a long time, however
I have never had a reason to use his services.
<http://www.avvid.com/>http://www.avvid.com/
Do a google search on him for other references ....

Here's another repair person I've heard of, and many satisfied
comments about him It's Ken, K4EAA

Check out his website here:
http://www.k4eaa.com/
Very GOOD explanation of what he does. And how he does it.

After finding these sites, I googled Kenwood Radio Repair. Then I
settled down to read. I was appalled by comments about Kenwood factory
service. I was heartened by some of the other stories I found about
individuals who did repairs. Check it out yourself by googling.
You'll have your eyes opened.

wd8aam

[Non-text portions of this message have been removed]

23670. Re: Thinking of selling TS-520SE, need input

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-27 21:18:48 UTC
From: james27613
Topic: 23635 Message: 23670

hi Paul,

Your xyl is also a keeper !

It's nice to have an xyl that understands
a good value when she sees it.

73 james ke4drn

23671. Re: TS830S Burghardt Repairs - ongoing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-27 21:25:16 UTC
From: james27613
Topic: 23640 Message: 23671

hi,

I got my HV caps on ebay for $21.99
for the pair including bleeder resistors
and the bypass caps.

I bet they must have gotten your repair
mixed up with the other order, crazy for
them to fix it for 5 hours labor.

Hope you get it resolved.

73 james

--- In TS-520_820_530_830@yahoogroups.com, "jwarnerr" <jwarner1@...> wrote:
>
>
> Ok. The parts section of the bill is as follows:
> 1 - KP000036 coupler 12.00
> 2 - KP000020 150UF 500V 18.97@ 37.94
> 2 - RE000022 470k 1/2w .99@ 1.98
>
> everything else is shipping and labor. It looks like 5 hours
> labor at $75 per hour. Total 478.98 and it cost me $52.00 to
> ship the radio to them. Total $538.98.
>
> I never even approved the work. I got an email at home in the
> evening from Smith saying to call him. I assumed he had an estimate so called him
firstthing the next morning and he reported "the work
> is already done". When I heard the bill I flipped but paid it.
> JW
>
>
>
>
>
> Can you contact me privately -
> Jerry Warner (jwarner1@...)
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, n6wk@ wrote:
> >
> > I repair and Align these radios on a Regular Basis.
> > I would LOVE to see an Itemized bill that came to $500.00
> > I did buy a TS-520 from a fellow that had sent it to Burghardt for

> > repairs.
> > They sent it back to him as "Unrepairable"
> > I checked it out and found that there was a broken wire inside the VFO.
> > Fixed the wire, aligned the radio and it has worked Great ever since.
> > I had about 2 hours of time in repairing it.
> > $500.00 for just a repair and alignment is totally out of line in my
> > opinion.
> > Please keep us all updated.
> > Gordon
> > N6WK
> >
> >
> > jwarnerr wrote:
> > >
> > >
> > >
> > > I have the itemised bill but dont think its appropriate to
> > > share it here until I talk to Burghardt, but now Im in a mess
> > > I did not need.
> > >
> > > I dont even know what "realignment" they did but whatever they
> > > did the receive digital display is now off more than is
> > > acceptable. (Wouldnt they check this while realigning?)
> > >
> > > Wouldnt they check the power output?
> > >
> > > But, included in my box was a bill and parts for another guy!
> > > A David Mansoir AC6CG for repairs on his FT-767GX, which has
> > > nothing to do with me.
> > >
> > > Hopfully I can get somebody at Burghardt tomorrow and save
> > > myself. Hopfully Mr. Mansoir got his radio back ok...
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com
> > > <mailto:TS-520_820_530_830%40yahoogroups.com>, Eric Zerkle
> > > <kc9guz@> wrote:
> > > >
> > > > Why did they charge you $500.00 to retune your rig and replace the
> > > caps? Those caps are not that expensive! They owe you a tune up and to
> > > make your rig like it was new. I hate that when i send a radio to
> > > someone and it comes back working worse than it was when i sent it out!
> > > >
> > > >
> > > >
> > > >
> > > > [Non-text portions of this message have been removed]
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>

23672. Low output on 13.5 volt DG-5 power plg

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-27 22:38:21 UTC
From: Peter
Topic: 23672 Message: 23672

I purchased a DG-5 which the seller said worked fine. When I plugged it in it failed to power up. Being a trusting sort I am assuming that the seller was truthful and decided to investigate. I found that the output of the power connector is 10.9 to a max of 11.2 after a warmup. I have looked through the owners manual and service manual for any information regarding this and came up empty. Is this voltage too low to power the DG-5? I don't have a power supply that I can use as a substitute for the rig. Any suggestions or can the unit run on low really DOA? Thanks in advance for any suggestions.
73, Pete N1TCH

23673. Re: TS830S Burghardt Repairs - ongoing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-27 23:00:53 UTC
From: jwarnerr
Topic: 23640 Message: 23673

I did (the comparison you suggest)just to have a baseline to
judge everything. But I did miss-speak. The RCV dig display is
off by .7 -.8 kc (low), not 7-8kc. Example: 7025 comes in at
~7024.2, 3517 at 3416.2, 1430.2 at 1429.4. Its basically the
same on all bands.

I also did not give the full chronology, which is worse than
first reported. Right out of the box from Burghardt the radio
had basiclaly no ALC and no output, then finally by tweaking
things I got about 15 watts out, maybe 20. With no ALC I suspected
the driver tube was bad so dug into boxes and found what is supposed to be a new 12byz and stuck it in. Now I had about half scale ALC
but was still only able to get between 60-70 watts out (using the same watt meter a Diawa I use with all my other radios. Jim Smith
reports they got 110watts out on 20 meters in their lab. I have no
way to reconcile this.

--- In TS-520_820_530_830@yahoogroups.com, "Ken" <atm_ken_hunter@...> wrote:
>
> The frequencies you posted are only 800HZ different, not 8,000HZ (8KHZ). Could be the cluster posters rounded off the freq or the guy QSY's a bit to readjust for QRM? 8ooHZ is not a long way off. If you have 2 RX's try them both on WWV then both on a HAM band signal to compare the freq's.
>
> Ken - KB7H
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "jwarnerr" <jwarner1@> wrote:
> >
>
>
> > posting to the cluster is off by 8-7 kc? Are you claiming my other radios receive at 7025 but my ts830 fresh from Burghardt receives
> > at 7024.2 so not only is everyone at the cluster wrong but all of my
>

23674. Re: TS830S Burghardt Repairs - ongoing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-27 23:13:09 UTC
From: jwarnerr
Topic: 23640 Message: 23674

Jim Smith called and left a message today asking me to call him
but when I called back there is a message they are closed for Thanksgiving. Jim said
somebody here had sent him an email
advising him of my posts here. Jim did say we should be able
to resolve this - I hope so. But I am waaaaaaaaay over budget
in this already.

My experience with Burghart's in the past has been very good
although I have never had them repair a radio until now. I
hope this can be resolved to everyone's satisfaction, if thats
possible.

I frankly think at this point everyone is kind of hostage to
a bad situation. I seriously doubt Jim Smith wanted this to
happen, and I sure didn't. We all have our problems. Again
I am hoping there is an easy fix involved here, including on
the bill -

73 and thanks.
Jerry Warner

--- In TS-520_820_530_830@yahoogroups.com, "james27613" <james27613@...> wrote:
>
> hi,
>
> I got my HV caps on ebay for $21.99
> for the pair including bleeder resistors
> and the bypass caps.
>
> I bet they must have gotten your repair
> mixed up with the other order, crazy for
> them to fix it for 5 hours labor.
>
> Hope you get it resolved.
>
> 73 james
>
> --- In TS-520_820_530_830@yahoogroups.com, "jwarnerr" <jwarner1@> wrote:
> >
> >
> > Ok. The parts section of the bill is as follows:
> > 1 - KP000036 coupler 12.00
> > 2 - KP000020 150UF 500V 18.97@ 37.94
> > 2 - RE000022 470k 1/2w .99@ 1.98
> >
> > everything else is shipping and labor. It looks like 5 hours

> > labor at $75 per hour. Total 478.98 and it cost me $52.00 to
> > ship the radio to them. Total $538.98.
> >
> > I never even approved the work. I got an email at home in the
> > evening from Smith saying to call him. I assumed he had an estimate so called him
firstthing the next morning and he reported "the work
> > is already done". When I heard the bill I flipped but paid it.
> > JW
> >
> >
> >
> >
> >
> > Can you contact me privately -
> > Jerry Warner (jwarner1@)
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, n6wk@ wrote:
> > >
> > > I repair and Align these radios on a Regular Basis.
> > > I would LOVE to see an Itemized bill that came to $500.00
> > > I did buy a TS-520 from a fellow that had sent it to Burghardt for
> > > repairs.
> > > They sent it back to him as "Unrepairable"
> > > I checked it out and found that there was a broken wire inside the VFO.
> > > Fixed the wire, aligned the radio and it has worked Great ever since.
> > > I had about 2 hours of time in repairing it.
> > > $500.00 for just a repair and alignment is totally out of line in my
> > > opinion.
> > > Please keep us all updated.
> > > Gordon
> > > N6WK
> > >
> > >
> > > jwarnerr wrote:
> > > >
> > > >
> > > >
> > > > I have the itemised bill but dont think its appropriate to
> > > > share it here until I talk to Burghardt, but now Im in a mess
> > > > I did not need.
> > > >
> > > > I dont even know what "realignment" they did but whatever they
> > > > did the receive digital display is now off more than is
> > > > acceptable. (Wouldnt they check this while realigning?)
> > > >
> > > > Wouldnt they check the power output?
> > > >
> > > > But, included in my box was a bill and parts for another guy!

> > > > A David Mansoir AC6CG for repairs on his FT-767GX, which has
> > > > nothing to do with me.
> > > >
> > > > Hopfully I can get somebody at Burghardt tomorrow and save
> > > > myself. Hopfully Mr. Mansoir got his radio back ok...
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com
> > > > <mailto:TS-520_820_530_830%40yahoogroups.com>, Eric Zerkle
> > > > <kc9guz@> wrote:
> > > > >
> > > > > Why did they charge you $500.00 to retune your rig and replace the
> > > > caps? Those caps are not that expensive! They owe you a tune up and to
> > > > make your rig like it was new. I hate that when i send a radio to
> > > > someone and it comes back working worse than it was when i sent it out!
> > > > >
> > > > >
> > > > >
> > > > >
> > > > > [Non-text portions of this message have been removed]
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>

23675. Tubes and Shelf Life

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-27 23:14:15 UTC
From: Gmail - Kevin, Natalia, Stacey & Rochelle
Topic: 23675 Message: 23675

Hi All,

I was luckly (in my opinion) to obtain 2x pair of new (boxed) GE 6146B tubes from a SK's family. Also purchased the AT-230.
Paid NZ$25 pr.
What I would like to know is can/do these tubes degrade over time while sitting in the box not being used?
At this stage I do not need to replace them, they are still putting out over 100w on all bands. Just thought that they were available buy them.

Regards

Kevin, ZL1KFM

Now to get the VFO-230, SM-220 and maybe the speaker.

[Non-text portions of this message have been removed]

23676. Re: [TS-520_820_530_830] Re: TS830S Burghardt Repairs - ongoing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-27 23:21:59 UTC
From: n6wk@n6wk.com
Topic: 23640 Message: 23676

Hi Jerry,
The fact that Jim called you is a very good sign.
Perhaps there was a major Mix-up at their end.
If Jim resolves this issue, please post the results here on the
Group for all to read the outcome.
It does sound as though they will need to have the radio shipped back to
them to re-do whatever is causing your problems though.

73
Gordon
N6WK

jwarnerr wrote:
>
>
> Jim Smith called and left a message today asking me to call him
> but when I called back there is a message they are closed for
> Thanksgiving. Jim said somebody here had sent him an email
> advising him of my posts here. Jim did say we should be able
> to resolve this - I hope so. But I am waaaaaaaaay over budget
> in this already.
>
> My experience with Burghart's in the past has been very good
> although I have never had them repair a radio until now. I
> hope this can be resolved to everyone's satisfaction, if thats
> possible.
>
> I frankly think at this point everyone is kind of hostage to
> a bad situation. I seriously doubt Jim Smith wanted this to
> happen, and I sure didn't. We all have our problems. Again
> I am hoping there is an easy fix involved here, including on
> the bill -
>
> 73 and thanks.
> Jerry Warner
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "james27613"
> <james27613@...> wrote:
> >
> > hi,
> >
> > I got my HV caps on ebay for $21.99
> > for the pair including bleeder resistors
> > and the bypass caps.

> >
> > I bet they must have gotten your repair
> > mixed up with the other order, crazy for
> > them to fix it for 5 hours labor.
> >
> > Hope you get it resolved.
> >
> > 73 james
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "jwarnerr" <jwarner1@>
> wrote:
> > >
> > >
> > > Ok. The parts section of the bill is as follows:
> > > 1 - KP000036 coupler 12.00
> > > 2 - KP000020 150UF 500V 18.97@ 37.94
> > > 2 - RE000022 470k 1/2w .99@ 1.98
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> > > I never even approved the work. I got an email at home in the
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> estimate so called him firstthing the next morning and he reported
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> > > JW
> > >
> > >
> > >
> > >
> > >
> > >
> > > Can you contact me privately -
> > > Jerry Warner (jwarner1@)
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, n6wk@ wrote:
> > > >
> > > > I repair and Align these radios on a Regular Basis.
> > > > I would LOVE to see an Itemized bill that came to $500.00
> > > > I did buy a TS-520 from a fellow that had sent it to Burghardt for
> > > > repairs.
> > > > They sent it back to him as "Unrepairable"
> > > > I checked it out and found that there was a broken wire inside
> the VFO.
> > > > Fixed the wire, aligned the radio and it has worked Great ever

> since.
> > > > I had about 2 hours of time in repairing it.
> > > > $500.00 for just a repair and alignment is totally out of line
> in my
> > > > opinion.
> > > > Please keep us all updated.
> > > > Gordon
> > > > N6WK
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> > > >
> > > > jwarnerr wrote:
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> > > > >
> > > > >
> > > > > I have the itemised bill but dont think its appropriate to
> > > > > share it here until I talk to Burghardt, but now Im in a mess
> > > > > I did not need.
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> > > > > I dont even know what "realignment" they did but whatever they
> > > > > did the receive digital display is now off more than is
> > > > > acceptable. (Wouldnt they check this while realigning?)
> > > > >
> > > > > Wouldnt they check the power output?
> > > > >
> > > > > But, included in my box was a bill and parts for another guy!
> > > > > A David Mansoir AC6CG for repairs on his FT-767GX, which has
> > > > > nothing to do with me.
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> > > > > myself. Hopfully Mr. Mansoir got his radio back ok...
> > > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > > > > <mailto:TS-520_820_530_830%40yahoogroups.com>, Eric Zerkle
> > > > > <kc9guz@> wrote:
> > > > > >
> > > > > > Why did they charge you $500.00 to retune your rig and
> replace the
> > > > > caps? Those caps are not that expensive! They owe you a tune
> up and to
> > > > > make your rig like it was new. I hate that when i send a radio to
> > > > > someone and it comes back working worse than it was when i
> sent it out!
> > > > > >
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> > > > > >
> > > > > > [Non-text portions of this message have been removed]
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23677. Re: [TS-520_820_530_830] Tubes and Shelf Life

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-28 00:09:33 UTC
From: Calvin Rousseau
Topic: 23675 Message: 23677

Gmail - Kevin, Natalia, Stacey & Rochelle wrote:
>
> Hi All,
>
> I was luckly (in my opinion) to obtain 2x pair of new (boxed) GE 6146B
> tubes from a SK's family. Also purchased the AT-230.
> Paid NZ$25 pr.
> What I would like to know is can/do these tubes degrade over time
> while sitting in the box not being used?
> At this stage I do not need to replace them, they are still putting
> out over 100w on all bands. Just thought that they were available buy
> them.
>
> Regards
>
> Kevin, ZL1KFM
>
> Now to get the VFO-230, SM-220 and maybe the speaker.
>
> [Non-text portions of this message have been removed]
>
>
Of course it's best to store the tubes in a cool dry place, but as long
as they hold vacuum, and the pins aren't allowed to get corroded, I
don't think that there is a known limit to how long tubes sitting on a
shelf will last.

23678. Re: [TS-520_820_530_830] Tubes and Shelf Life

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-28 01:32:08 UTC
From: Big Mike
Topic: 23675 Message: 23678

I'll probably catch for flak over this one. I had 4 3-500Z's that I hauled around for over 35 years. I bought an amp, missing the tubes because I knew I had them. Paid $200.00 for a Drake L-4B complete, less the tubes. Took a pair out of the boxes, plugged them in, and turned on the amp. Within 15 minutes I was using the amp in the way it is supposed to be done. No break in, or as some would say "burn in" time at all. They have been working daily for over 2 years now.

That's just my opinion. Many will disagree, but that's their problem. I've worked in the industry for well over 50 years, and never worry about taking a tube out, plugging it in, and apply power. Never once did I ever have a problem.

73 to all,

Mike-K5VSE
Formerly WB6VSE, Senior Tech. Amateur Div
SBE, Watsonville, CA Retired Fire Chief
USS Point Defiance LSD 31, USS Okanogan APA 220
http://sjsharks.tripod.com/index.html
All email scanned with Norton 2010
In God We Trust
"SUPPORT OUR TROOPS"
Viet Nam Vet

[Non-text portions of this message have been removed]

23679. 520S possible part-out

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-28 18:32:30 UTC
From: jsloss
Topic: 23679 Message: 23679

I have a TS-520S, surplus to my needs, that needs several wafers on the final cage bandswitch. Am considering parting it out rather than go to the expense of a replacement switch or wafers plus installation time. I'd rather have a replacement switch but they seem non-existent or made from precious metal if quoted prices are any indication.

what might you need?

Joe k7mks

[Non-text portions of this message have been removed]

23680. Re: [TS-520_820_530_830] 520S possible part-out

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-28 18:47:59 UTC
From: John Davidson
Topic: 23679 Message: 23680

That's funny because my TS520 classic needs the same switch wafers. I just leave it on 80 M now and it has it's own 80M dipole connected.

--- On Sat, 11/28/09, jsloss <k7mks@...> wrote:

From: jsloss k7mks@comcast.net

I have a TS-520S, surplus to my needs, that needs several wafers on the final cage bandswitch. Am considering parting it out rather than go to the expense of a replacement switch or wafers plus installation

Joe k7mks

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23681. Re: [TS-520_820_530_830] 520S possible part-out

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-28 23:53:41 UTC
From: Stephen Judd
Topic: 23679 Message: 23681

I am interested in the Fan and motor mine is about on its last blow
 Stephen/KB7BGS

From: jsloss <k7mks@comcast.net>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sat, November 28, 2009 11:32:30 AM
Subject: [TS-520_820_530_830] 520S possible part-out

I have a TS-520S, surplus to my needs, that needs several wafers on the final cage bandswitch. Am considering parting it out rather than go to the expense of a replacement switch or wafers plus installation time. I'd rather have a replacement switch but they seem non-existent or made from precious metal if quoted prices are any indication.

what might you need?

Joe k7mks

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23682. Dummy Load Modification to AT 230 ATU

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-28 23:40:48 UTC
From: Music Maker
Topic: 23682 Message: 23682

.
.
Hello Folks,

Hope all you guys out there in our former Colony had a really good Thanksgiving. My American wife celebrated it too, by travelling to Boston (in UK!), and throwing a symbolic Tea Bag into the Harbor there !! We then sat in our folding chairs, on the dockside, and had a nice cuppa from our flask, before returning home !!

On to serious matters! I have just modified an AT 230 ATU, to have an internal Dummy Load. I have done it with just one 'Specialised' resistor, and now, when you put the switch on the ATU to 'Dummy Load', you get a 200 Watt 50 Ohm non-inductive resistor switched in. I have put all the 'guff' and the pictures on my TS 520 Website, if anyone is interested in doing this modification.

You will find it here ..... Johns Kenwood TS 520 Web Site
<http://www.john4music.tv/>

73's de John

.

[Non-text portions of this message have been removed]

23683. need help

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-29 01:18:52 UTC
From: stilesjoseph
Topic: 23683 Message: 23683

i still need help in some identification and adjustment of the voltages on a TS820S AF-AVR board...tnx de wb7uqu

23684. Re: Burghardt Repairs - ongoing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-29 03:40:10 UTC
From: james27613
Topic: 23665 Message: 23684

hi,

kenwood factory service is not run by kenwood.

clif and ken are the best guys to fix your radio.

73 james ke4drn

.....
After finding these sites, I googled Kenwood Radio Repair. Then I
settled down to read. I was appalled by comments about Kenwood factory
service. I was heartened by some of the other stories I found about
individuals who did repairs. Check it out yourself by googling.
You'll have your eyes opened.

23685. Re: TS830S Burghardt Repairs - ongoing

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-29 12:06:44 UTC
From: N9WB
Topic: 23640 Message: 23685

I don't like to see this much flaming on this group, but on the other hand, I can understand why Jerry is upset. Since this is a holiday weekend, let's give this a rest until the middle of next week.

Give Burghardt a chance to get back with Jerry and see what Burghardt has to say.

Vy 73, Walt N9WB
Group c0-owner

--- In TS-520_820_530_830@yahoogroups.com, "jwarnerr" <jwarner1@...> wrote:
>
> Jim Smith called and left a message today asking me to call him
> but when I called back there is a message they are closed for Thanksgiving. Jim said somebody here had sent him an email
> advising him of my posts here. Jim did say we should be able
> to resolve this - I hope so. But I am waaaaaaaaay over budget
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> My experience with Burghart's in the past has been very good
> although I have never had them repair a radio until now. I
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> a bad situation. I seriously doubt Jim Smith wanted this to
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> I am hoping there is an easy fix involved here, including on
> the bill -
>
> 73 and thanks.
> Jerry Warner
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "james27613" <james27613@> wrote:
> >
> > hi,
> >
> > I got my HV caps on ebay for $21.99
> > for the pair including bleeder resistors
> > and the bypass caps.
> >
> > I bet they must have gotten your repair
> > mixed up with the other order, crazy for
> > them to fix it for 5 hours labor.

> >
> > Hope you get it resolved.
> >
> > 73 james
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "jwarnerr" <jwarner1@> wrote:
> > >
> > >
> > > Ok. The parts section of the bill is as follows:
> > > 1 - KP000036 coupler 12.00
> > > 2 - KP000020 150UF 500V 18.97@ 37.94
> > > 2 - RE000022 470k 1/2w .99@ 1.98
> > >
> > > everything else is shipping and labor. It looks like 5 hours
> > > labor at $75 per hour. Total 478.98 and it cost me $52.00 to
> > > ship the radio to them. Total $538.98.
> > >
> > > I never even approved the work. I got an email at home in the
> > > evening from Smith saying to call him. I assumed he had an estimate so called him
firstthing the next morning and he reported "the work
> > > is already done". When I heard the bill I flipped but paid it.
> > > JW
> > >
> > >
> > >
> > >
> > >
> > > Can you contact me privately -
> > > Jerry Warner (jwarner1@)
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, n6wk@ wrote:
> > > >
> > > > I repair and Align these radios on a Regular Basis.
> > > > I would LOVE to see an Itemized bill that came to $500.00
> > > > I did buy a TS-520 from a fellow that had sent it to Burghardt for
> > > > repairs.
> > > > They sent it back to him as "Unrepairable"
> > > > I checked it out and found that there was a broken wire inside the VFO.
> > > > Fixed the wire, aligned the radio and it has worked Great ever since.
> > > > I had about 2 hours of time in repairing it.
> > > > $500.00 for just a repair and alignment is totally out of line in my
> > > > opinion.
> > > > Please keep us all updated.
> > > > Gordon
> > > > N6WK
> > > >
> > > >
> > > > jwarnerr wrote:

> > > > >
> > > > >
> > > > >
> > > > > I have the itemised bill but dont think its appropriate to
> > > > > share it here until I talk to Burghardt, but now Im in a mess
> > > > > I did not need.
> > > > > >
> > > > > I dont even know what "realignment" they did but whatever they
> > > > > did the receive digital display is now off more than is
> > > > > acceptable. (Wouldnt they check this while realigning?)
> > > > > >
> > > > > Wouldnt they check the power output?
> > > > > >
> > > > > But, included in my box was a bill and parts for another guy!
> > > > > A David Mansoir AC6CG for repairs on his FT-767GX, which has
> > > > > nothing to do with me.
> > > > > >
> > > > > Hopfully I can get somebody at Burghardt tomorrow and save
> > > > > myself. Hopfully Mr. Mansoir got his radio back ok...
> > > > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com
> > > > > <mailto:TS-520_820_530_830%40yahoogroups.com>, Eric Zerkle
> > > > > <kc9guz@> wrote:
> > > > > > >
> > > > > > Why did they charge you $500.00 to retune your rig and replace the
> > > > > caps? Those caps are not that expensive! They owe you a tune up and to
> > > > > make your rig like it was new. I hate that when i send a radio to
> > > > > someone and it comes back working worse than it was when i sent it out!
> > > > > > >
> > > > > > >
> > > > > > >
> > > > > > >
> > > > > > > [Non-text portions of this message have been removed]
> > > > > > >
> > > > > > >
> > > > > > >
> > > > > >
> > > > >
> > > >
> > >
> >

23686. New Group Co-owner

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-29 12:14:58 UTC
From: N9WB
Topic: 23686 Message: 23686

I asked Gordon, N6WK to help me by being a co-owner of this group. I should have done this a long time ago. Fortunately for all of us he accepted.

Gordon, we appreciate all of the input and help you have given our members for so many years. We appreciate your willingness to continue to help in this expanded capacity and keep this group growing.

Vy 73, Walt N9WB

23687. 520se transmitting???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-29 12:11:35 UTC
From: fjwheeler3
Topic: 23687 Message: 23687

hi
I need the wisdom of the group.
I have a :520se into a 20 meter dipole 20ft high .
I followed the tuning procedure in the manual and the one
suggested on the list.
I can hear stations but can't work them
when I transmit the processor is pulled out ,meter onalc and needle moves within the alc markings.
ip is at 70 ma
when talking in mic rf meter reads 50-100
uv reads a solid 300
What I think;
swr is not correct.I bought a meter. on eBay and expect to
test in a few days.
I guessed that dipole cut to length with 40ft rg58 would be close
mic is distorted.
it is an astatic d104 bought at hamfest
It was missing connector so I wired it as per
manual. if alc is in range I must be inputting
something.
I have an old cb mike. can that be used if wired properly?
any help appreciated
Fred
kb1tcy

23688. Re: 520se transmitting???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-29 14:12:09 UTC
From: w5rkl
Topic: 23687 Message: 23688

Hello Fred,

Did you make the dipole or was it one of the commercially made mono band dipoles? If you made the dipole and you do not have an SWR meter to adjust the length of each side's wires for the lowest SWR then more than likely a lot of your transmit RF is being reflected back to the transmitter and very little is actually being radiated. You can only determine the SWR level with an SWR meter which appears you have purchased one on eBay.

As far as microphones, the microphone used with the 520 should be a high impedance microphone. Low impedance microphones result in low / muffled audio which leads to low RF output which cannot be fixed by turning up the MIC gain setting.

You did not state whether the D-104 is the amplified or non-amplified D-104. Look at the bottom of the microphone stand, there's a small hole. If you see a screw driver adjustment through the hole then the D-104 is the amplified (T-UG9) base.

A bad microphone element, not uncommon with D-104 microphone, can result in no audio or distorted audio in the transmit signal.

The normal final amplifier no-signal final amplifier idling current is 60ma not 70ma. Set the final amplifier's idling current as shown on page 18 of the 520's operator's manual.

The processor is covered on page 21 of the 520's manual.

There is no requirement for a constant peak ALC meter indication during normal sideband transmit. If this is what is happening then the MIC gain is set too high which will result in distortion in your transmit signal.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "fjwheeler3" <fjwheeler3@...> wrote:
>
> hi
> I need the wisdom of the group.
> I have a :520se into a 20 meter dipole 20ft high .
> I followed the tuning procedure in the manual and the one
> suggested on the list.
> I can hear stations but can't work them
> when I transmit the processor is pulled out ,meter onalc and needle moves within the alc markings.
> ip is at 70 ma
> when talking in mic rf meter reads 50-100
> uv reads a solid 300
> What I think;
> swr is not correct.I bought a meter. on eBay and expect to
> test in a few days.

> I guessed that dipole cut to length with 40ft rg58 would be close
> mic is distorted.
> it is an astatic d104 bought at hamfest
> It was missing connector so I wired it as per
> manual. if alc is in range I must be inputting
> something.
> I have an old cb mike. can that be used if wired properly?
> any help appreciated
> Fred
> kb1tcy
>

23689. Re: [TS-520_820_530_830] 520se transmitting???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-29 14:14:36 UTC
From: martin
Topic: 23687 Message: 23689

Hi Fred. First of all, you need a dummy load to tune up into. If by IP you mean the bias current, it should be 60MA not 70. The RF meter in the radio is NOT measuring watts, it is a relative reading. What do you mean by "uv reads a solid 300"?

First follow the instructions in the manual for setting the bias current. Is the D-104 amplified? Whether it is or not, it may not be wired correctly internally to work with your radio. If it is one of the D-104 mics sold for CB use, it is probably amplified, and low impedance. Your radio requires a high impedance mic. The PTT and mic shield must be separate for it to work correctly. The same goes for pretty much any CB mic. The CB mic is probably a low impedance mic, and your radio requires a high impedance mic.

As stated in the manual, the radio should only be operated into a dummy load, or an antenna with an SWR of 2:1 or less. If you do not have the manual, it can be downloaded from a nimber of places on the internet.

TTYL

fjwheeler3 wrote:
> hi
> I need the wisdom of the group.
> I have a :520se into a 20 meter dipole 20ft high .
> I followed the tuning procedure in the manual and the one
> suggested on the list.
> I can hear stations but can't work them
> when I transmit the processor is pulled out ,meter onalc and needle moves within the alc markings.
> ip is at 70 ma
> when talking in mic rf meter reads 50-100
> uv reads a solid 300
> What I think;
> swr is not correct.I bought a meter. on eBay and expect to
> test in a few days.
> I guessed that dipole cut to length with 40ft rg58 would be close
> mic is distorted.
> it is an astatic d104 bought at hamfest
> It was missing connector so I wired it as per
> manual. if alc is in range I must be inputting
> something.
> I have an old cb mike. can that be used if wired properly?
> any help appreciated
> Fred
> kb1tcy

>
>
>
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

23690. Re: [TS-520_820_530_830] New Group Co-owner

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-29 15:40:45 UTC
From: Chris and Alex
Topic: 23686 Message: 23690

Thanks guys for the best group on the internet.

de Chris SV0XBQ/9

2009/11/29 N9WB <n9wb@...>

>
>
> I asked Gordon, N6WK to help me by being a co-owner of this group. I should
> have done this a long time ago. Fortunately for all of us he accepted.
>
> Gordon, we appreciate all of the input and help you have given our members
> for so many years. We appreciate your willingness to continue to help in
> this expanded capacity and keep this group growing.
>
> Vy 73, Walt N9WB
>
>
>

[Non-text portions of this message have been removed]

23691. Re: 520se transmitting???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-29 13:21:54 UTC
From: Peter
Topic: 23687 Message: 23691

Hi Fred,
Don't know if I qualify as wise, but I have a 520SE that behaves the same way. I am using a MC-50 mike and have an AT-200 tuner. I have my dipole which is cut for 14.300 about 20 feet off the ground as well and on most of the General portion of the band has about a 1.5/1 SWR. I think that it is the low antenna elevation as much as anything that is the issue. I have had a QSO with a Cuban station and a couple of others towards the southeast from my QTH in southern NH - FL, TN and PA. Since I replaced a 6 meter dipole that gave similiar results I'm not surprised. I do believe that getting the dipole up to about 30 feet will help. There was a good article on antenna height in a recent QST.
73,

Pete, N1TCH

--- In TS-520_820_530_830@yahoogroups.com, "fjwheeler3" <fjwheeler3@...> wrote:
>
> hi
> I need the wisdom of the group.
> I have a :520se into a 20 meter dipole 20ft high .
> I followed the tuning procedure in the manual and the one
> suggested on the list.
> I can hear stations but can't work them
> when I transmit the processor is pulled out ,meter onalc and needle moves within the alc markings.
> ip is at 70 ma
> when talking in mic rf meter reads 50-100
> uv reads a solid 300
> What I think;
> swr is not correct.I bought a meter. on eBay and expect to
> test in a few days.
> I guessed that dipole cut to length with 40ft rg58 would be close
> mic is distorted.
> it is an astatic d104 bought at hamfest
> It was missing connector so I wired it as per
> manual. if alc is in range I must be inputting
> something.
> I have an old cb mike. can that be used if wired properly?
> any help appreciated
> Fred
> kb1tcy
>

23692. Re: [TS-520_820_530_830] New Group Co-owner

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-29 16:41:55 UTC
From: Tracy Ringering
Topic: 23686 Message: 23692

Thanks to BOTH of you! This is such a valuable resource.

TR, N7FPI

From: N9WB <n9wb@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sun, November 29, 2009 4:14:58 AM
Subject: [TS-520_820_530_830] New Group Co-owner

I asked Gordon, N6WK to help me by being a co-owner of this group. I should have done this a long time ago. Fortunately for all of us he accepted.

Gordon, we appreciate all of the input and help you have given our members for so many years. We appreciate your willingness to continue to help in this expanded capacity and keep this group growing.

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

23693. Re: [TS-520_820_530_830] New Group Co-owner

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-29 16:41:50 UTC
From: Tracy Ringering
Topic: 23686 Message: 23693

Thanks to BOTH of you! This is such a valuable resource.

TR, N7FPI

From: N9WB <n9wb@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sun, November 29, 2009 4:14:58 AM
Subject: [TS-520_820_530_830] New Group Co-owner

I asked Gordon, N6WK to help me by being a co-owner of this group. I should have done this a long time ago. Fortunately for all of us he accepted.

Gordon, we appreciate all of the input and help you have given our members for so many years. We appreciate your willingness to continue to help in this expanded capacity and keep this group growing.

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

23694. Re: need help

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-29 17:56:03 UTC
From: w5rkl
Topic: 23683 Message: 23694

Hello Joseph,

The voltage adjustments on the 820's AF AVR UNIT board are covered in the 820's service manual starting on page 44.

You can download the 820 service manual from the following website, free:

www.n6wk.com/kenwood/

Scroll down the page and click on the 820 service manual link.

To make the adjustments, remove the power plug from the rear panel and remove both top and bottom covers.

Turn the 820 upside down, front panel facing you, and locate the AF AVR board directly below the VFO.

Note the 2 plug along the AF AVR board that are closest to the front panel, these are labeled AF1 and AF2.

The plug pins are numbered right to left, 1, 2, 3, 4, 5, and 6.

Connect a DC volt meter to AF1 pin 1 or 2.

Reconnect the power cable to the rear and make sure the speaker is connected and power up the 820. Leave the 820 powered up for 30 minutes before making any adjustments.

Note the voltage on AF1 pin 1 or 2. If it is not 9VDC, adjust VR4 located in the middle of the AF AVR board so the meter reads 9VDC +/- .5VDC. Do NOT adjust the large plastic pot, that's the "RIT" voltage pot.

Once you have completed the 9VDC voltage adjustment, move the DC volt meter probe to plug AF2 pin 6. The voltage should be 3.3VDC, +/- .5VDC. If the voltage is not 3.3VDC then adjust VR1, located between plugs AF1 and AF2, for a meter reading of 3.3VDC +/- .5VDC.

This completes the voltage adjustments on the AF AVR board.

One additional comment. The primary source of drift in the 820 is instability in the 9VDC supply which powers the VFO whether internal and/or external. Instability in the 9VDC AF AVR supply affects the stability of the VFOs which causes drift in the 820. Instability in the 9VDC supply is typically caused by D5 (6 volt zener) and regulator Q7 (2SA496Y). Replacing both components will significantly reduce the drift in the 820.

You can obtain both components, D5 and Q7, from the following website.

http://www.electronicsurplus.com/ccp78762-to-220-pnp-transistor-2sa496-y-13844.htm

Any 6.1 volt 1/2 watt zener will work fine as a replacement for D5. The above website sells a 6.1 volt 1 watt zener for 25 cents each, must purchase minimum of 4, which will also work

fine.

http://www.electronicsurplus.com/ccp77886-6-2v-1w-525-do-41-axial-zener-diodes-min-purchase--1n4735a-22930.htm

I have an 820 that had a significant amount of drift after the 30 minute warm up period. I replaced both D5 and Q7 on the AF AVR board and the drift was significantly reduced to factory specifications. If you replace D5 and Q7, you will have to readjust the 9VDC then the 3.3VDC adjustments on the AF AVR board.

I reused the heat sink on Q7. I simply applied some additional silicon grease between the transistor and the heat sink. The heat sink will feel warm to the touch, which is normal, during normal operation.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "stilesjoseph" <stilesjoseph@...> wrote:
>
> i still need help in some identification and adjustment of the voltages on a TS820S AF-AVR board...tnx de wb7uqu
>

23695. 520 se transmitting

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-29 20:19:38 UTC
From: Rich Jones
Topic: 23695 Message: 23695

Pete wrote:Hi Fred,
Don't know if I qualify as wise, but I have a 520SE that behaves the same way. I am using a MC-50 mike and have an AT-200 tuner. I have my dipole which is cut for 14.300 about 20 feet off the ground as well and on most of the General portion of the band has about a 1.5/1 SWR. I think that it is the low antenna elevation as much as anything that is the issue. I have had a QSO with a Cuban station and a couple of others towards the southeast from my QTH in southern NH - FL, TN and PA. Since I replaced a 6 meter dipole that gave similiar results I'm not surprised. I do believe that getting the dipole up to about 30 feet will help. There was a good article on antenna height in a recent QST.
73,

Pete, N1TCH

DR OM Pete. i have worked the world with a 40 meter Carolina Windom on many field days and the antenna only 25 foot up,. I understand the Higher the better but I don't think that is the major problem in making contacts. What time of day are you trying 20 meters? Operating time makes a big difference on most any band. Are you calling CQ or trying to make contacts with a ham just ending his QSO or one calling CQ. Unforthuately for you, allot of hams may not be returning you CQ for various reasons...strength, quality of audio or plain ole just not interested. Listen for a ham that has moderate to strong signal and audio and try going back to him. Tell him your operating conditions and ask how you sound to him, my audio OK? Hows my signal strength? etc. Find out what he is using for antenna and power out, etc. Good luck OM, will be looking for you on 20. 73 Rich K8UV

[Non-text portions of this message have been removed]

23696. Re: Trouble with TS-820s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-29 18:04:54 UTC
From: hapakr
Topic: 23627 Message: 23696

Thanks Charlie and Don!! You're both correct. I had only keyed the mic not spoken into it. I'm Learning!! Slowly but surely!!

Thanks,
Rod
VA3ZVT

--- In TS-520_820_530_830@yahoogroups.com, "Charlie , W5COV" <cvest@...> wrote:
>
> Could you provide more information ? There will be no power output on SSB unless you have audio to the microphone (talking) . Do you not show any output when you talk into the microphone ?
>
> Charlie , W5COV
>
> [Non-text portions of this message have been removed]
>

23697. Dummy load mods

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-29 20:28:48 UTC
From: Rich Jones
Topic: 23697 Message: 23697

John, fantastic website! Crystal clear photos and senior citizen print size. You have been added to my favorites to share with fellow hams. Best Holiday Greetings from SE Michigan es 73 Rich K8UV

Would be a pleasue to share flask with you and yours anyday.

[Non-text portions of this message have been removed]

23698. Use of a Pioneer DPM-31 Mic with TS-830??

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-30 01:48:42 UTC
From: Gmail - Kevin, Natalia, Stacey & Rochelle
Topic: 23698 Message: 23698

Hi Guys,

I was going through some gear of mine and came across; in excelent condition Pioneer DM-31 Dynamic mic.
I got this in my youth when I was doing a little DJing, with real records. That was a long time ago and then put away. I guess it has not been used for over 20 years.
Upon finding it I thought about using it with my TS-830S, the impedance are the same so this would make a nice shack boom mic.

So I am asking whether others have used a normal mic (not ham radio releated) mated to a ham radio?
Guessing I am asking about the quality of audio?
If overall acceptable, I will make a foot/hand PTT switch and an adaptor cable for the phono plug and the 4-pin socket on the radio.

Regards for any feedback.

Kevin, ZL1KFM.

I tried to do a search via Google with limited success unless I wanted to buy the manual, No.

23699. Re: [TS-520_820_530_830] Thinking of selling TS-520SE, need input

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-30 04:31:43 UTC
From: DW
Topic: 23635 Message: 23699

Paul,

Congratulations on your choice of wife! I know of many hams whose wives (or husbands) are at best indeifferent to the hobby, & sometimes blatantly hostile. Mine, like yours, wouldn't let me sell a rig even when times were at their worst for us. She's never given me a bit of hassle over any piece of gear that I needed (or wanted) to buy. We just worked together to make adjustments to the budget.

She knits (& lurks) for a hobby. If she needs needles, yarn, a whatever--she gets it--no argument from me.

Do whatever you can to support her & let her know how much you appreciate her supporting you.

Also, kudos to you for placing your family ahead of yourself in the first place. In my book, that's one of the defining elements of a true man.

DW White <><
KE6WYB ><>
Shasta County, California: CN80uk <><
God, Country, Corps><>
AR

>
> From: James Allen <jp.paul.allen@...>
> Subject: Re: [TS-520_820_530_830] Thinking of selling
> TS-520SE, need input
> To: TS-520_820_530_830@yahoogroups.com
> Date: Thursday, November 26, 2009, 5:27 PM
>
>
> I do have a 2 year old, but I talked with my wife after
> sending out the
> e-mail. She was surpisingly understanding and actually does
> not want me to
> sell the radio because I got a really good deal on it ($100
> for the radio,
> mic, and speaker in working condition). So I will not have
> to consider
> selling it anymore thankfully.
>
> Paul
> KE7TYY
>
>

23700. Re: [TS-520_820_530_830] 520 se transmitting

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-30 04:38:12 UTC
From: Chris and Alex
Topic: 23695 Message: 23700

Ask on here if someone local to you wants to schedule a QSO then you can
both swop reports and experiment with alc and processor without the
influence of propagation. It's something I'd like to do but I'm a bit far
away.

Chris

2009/11/29 Rich Jones <michjonezee@...>

>
>
> Pete wrote:Hi Fred,
> Don't know if I qualify as wise, but I have a 520SE that behaves the same
> way. I am using a MC-50 mike and have an AT-200 tuner. I have my dipole
> which is cut for 14.300 about 20 feet off the ground as well and on most of
> the General portion of the band has about a 1.5/1 SWR. I think that it is
> the low antenna elevation as much as anything that is the issue.
> I have had a QSO with a Cuban station and a couple of others towards the
> southeast from my QTH in southern NH - FL, TN and PA. Since I replaced a 6
> meter dipole that gave similiar results I'm not surprised. I do believe that
> getting the dipole up to about 30 feet will help. There was a good article
> on antenna height in a recent QST.
> 73,
>
> Pete, N1TCH
>
> DR OM Pete. i have worked the world with a 40 meter Carolina Windom on
> many field days and the antenna only 25 foot up,. I understand the Higher
> the better but I don't think that is the major problem in making contacts.
> What time of day are you trying 20 meters? Operating time makes a big
> difference on most any band. Are you calling CQ or trying to make contacts
> with a ham just ending his QSO or one calling CQ. Unforthuately for you,
> allot of hams may not be returning you CQ for various reasons...strength,
> quality of audio or plain ole just not interested. Listen for a ham that
> has moderate to strong signal and audio and try going back to him. Tell him
> your operating conditions and ask how you sound to him, my audio OK? Hows
> my signal strength? etc. Find out what he is using for antenna and power
> out, etc. Good luck OM, will be looking for you on 20. 73 Rich K8UV
>
> [Non-text portions of this message have been removed]
>
>
>

[Non-text portions of this message have been removed]

23701. Re: [TS-520_820_530_830] WTB: MC-10 Microphone

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-30 17:04:31 UTC
From: Howard Weinstein
Topic: 23560 Message: 23701

QSL - Tnx Dave

--- On Mon, 11/23/09, Dave ve3wej <ve3wej@...> wrote:

From: Dave ve3wej <ve3wej@...>
Subject: Re: [TS-520_820_530_830] WTB: MC-10 Microphone
To: TS-520_820_530_830@yahoogroups.com
Date: Monday, November 23, 2009, 6:22 PM

fyi so is a mc35 kenwood handmike if you can find one of those.. as well
as a mc-50 desk mike

----- Original Message -----
From: "Howard Weinstein" <k3hw@...>
To: <TS-520_820_530_ 830@yahoogroups. com>
Sent: Monday, November 23, 2009 5:25 PM
Subject: [TS-520_820_ 530_830] WTB: MC-10 Microphone

Hi TS-520s etc Gang,

I would like to obtain an original MC-10 Hand Microphone originally
available for the TS-520. It is unique in that it's output impedance is 50k
ohms.

Tnx es 72/73 de Howie K3HW

[Non-text portions of this message have been removed]

------------ --------- --------- ------

Yahoo! Groups Links

[Non-text portions of this message have been removed]

23702. TS-830 Filters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-30 19:05:12 UTC
From: Hartlessone
Topic: 23702 Message: 23702

Does anyone have data sheets on the YK-88C and the YG88C kenwood filters? I have a YG-88C filter which is a 500 cycle filter@8.83MHz and the TS-830 manual calls for a YK-88C 500 cycle filter@8.83MHz. Can anyone tell me the difference, and if I can use the YG88C in my TS-830. Thanks, and this is a wonderful group of helpful Hams.
Bill
W5ZV

23703. confirmation of membership

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-30 18:41:27 UTC
From: g3xhp
Topic: 23703 Message: 23703

[Body unavailable in the source archive]

23704. Re: [TS-520_820_530_830] Thinking of selling TS-520SE, need input

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-30 19:08:20 UTC
From: James Allen
Topic: 23635 Message: 23704

Thanks for the kudos, I appreciate it.

She is really good about this stuff, it's typically only due to lack of money that she snubs anything. She knows it's a big deal to me, but she doesn't think she will ever get her liscence. Maybe someday I can wear her down!

Paul
KE7TYY

On Sun, Nov 29, 2009 at 9:31 PM, DW <andersonradioactivity@...> wrote:

>
>
> Paul,
>
> Congratulations on your choice of wife! I know of many hams whose wives (or
> husbands) are at best indeifferent to the hobby, & sometimes blatantly
> hostile. Mine, like yours, wouldn't let me sell a rig even when times were
> at their worst for us. She's never given me a bit of hassle over any piece
> of gear that I needed (or wanted) to buy. We just worked together to make
> adjustments to the budget.
>
> She knits (& lurks) for a hobby. If she needs needles, yarn, a
> whatever--she gets it--no argument from me.
>
> Do whatever you can to support her & let her know how much you appreciate
> her supporting you.
>
> Also, kudos to you for placing your family ahead of yourself in the first
> place. In my book, that's one of the defining elements of a true man.
>
> DW White <><
> KE6WYB ><>
> Shasta County, California: CN80uk <><
> God, Country, Corps><>
> AR
>
> >
> > From: James Allen <jp.paul.allen@... <jp.paul.allen%40gmail.com>>
> > Subject: Re: [TS-520_820_530_830] Thinking of selling
> > TS-520SE, need input
> > To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> > Date: Thursday, November 26, 2009, 5:27 PM
> >
> >

> > I do have a 2 year old, but I talked with my wife after
> > sending out the
> > e-mail. She was surpisingly understanding and actually does
> > not want me to
> > sell the radio because I got a really good deal on it ($100
> > for the radio,
> > mic, and speaker in working condition). So I will not have
> > to consider
> > selling it anymore thankfully.
> >
> > Paul
> > KE7TYY
> >
> >
>
>
>

[Non-text portions of this message have been removed]

23705. RE: [TS-520_820_530_830] TS-830 Filters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-30 20:02:49 UTC
From: Dick Merryman
Topic: 23702 Message: 23705

Bill-

There was a discussion about this a couple of years ago on QRZ http://forums.qrz.com/archive/index.php/t-117637.html . One guy said he used it OK while another said no way. The guy that said it was OK is AB9LZ and you could probably ask him.

-Dick-
N3XRU

_____

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Hartlessone
Sent: Monday, November 30, 2009 11:05 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS-830 Filters

Does anyone have data sheets on the YK-88C and the YG88C kenwood filters? I have a YG-88C filter which is a 500 cycle filter@8.83MHz <mailto:filter%408.83MHz> and the TS-830 manual calls for a YK-88C 500 cycle filter@8.83MHz <mailto:filter%408.83MHz> . Can anyone tell me the difference, and if I can use the YG88C in my TS-830. Thanks, and this is a wonderful group of helpful Hams.
Bill
W5ZV

[Non-text portions of this message have been removed]

23706. Re: [TS-520_820_530_830] Use of a Pioneer DPM-31 Mic with TS-830??

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-30 20:25:49 UTC
From: Dave ve3wej
Topic: 23698 Message: 23706

is it the right impedance??? than try it and see...

----- Original Message -----
From: "Gmail - Kevin, Natalia, Stacey & Rochelle" <sparcnz@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, November 29, 2009 8:48 PM
Subject: [TS-520_820_530_830] Use of a Pioneer DPM-31 Mic with TS-830??

> Hi Guys,
>
> I was going through some gear of mine and came across; in excelent
> condition
> Pioneer DM-31 Dynamic mic.
> I got this in my youth when I was doing a little DJing, with real records.
> That was a long time ago and then put away. I guess it has not been used
> for
> over 20 years.
> Upon finding it I thought about using it with my TS-830S, the impedance
> are
> the same so this would make a nice shack boom mic.
>
> So I am asking whether others have used a normal mic (not ham radio
> releated) mated to a ham radio?
> Guessing I am asking about the quality of audio?
> If overall acceptable, I will make a foot/hand PTT switch and an adaptor
> cable for the phono plug and the 4-pin socket on the radio.
>
> Regards for any feedback.
>
> Kevin, ZL1KFM.
>
> I tried to do a search via Google with limited success unless I wanted to
> buy the manual, No.
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

23707. Re: [TS-520_820_530_830] Use of a Pioneer DPM-31 Mic with TS-830??

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-30 20:38:26 UTC
From: martin
Topic: 23698 Message: 23707

Hi Kevin. I have heard of hams using studio type mics before. Can't
hurt to try it!

TTYL

Gmail - Kevin, Natalia, Stacey & Rochelle wrote:
> Hi Guys,
>
> I was going through some gear of mine and came across; in excelent condition
> Pioneer DM-31 Dynamic mic.
> I got this in my youth when I was doing a little DJing, with real records.
> That was a long time ago and then put away. I guess it has not been used for
> over 20 years.
> Upon finding it I thought about using it with my TS-830S, the impedance are
> the same so this would make a nice shack boom mic.
>
> So I am asking whether others have used a normal mic (not ham radio
> releated) mated to a ham radio?
> Guessing I am asking about the quality of audio?
> If overall acceptable, I will make a foot/hand PTT switch and an adaptor
> cable for the phono plug and the 4-pin socket on the radio.
>
> Regards for any feedback.
>
> Kevin, ZL1KFM.
>
> I tried to do a search via Google with limited success unless I wanted to
> buy the manual, No.
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html

"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

23708. Re: [TS-520_820_530_830] TS-830 Filters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-30 20:39:58 UTC
From: martin
Topic: 23702 Message: 23708

Hi. Is the center frequency exactly the same? If so, you might try it.

TTYL

Hartlessone wrote:
> Does anyone have data sheets on the YK-88C and the YG88C kenwood
> filters? I have a YG-88C filter which is a 500 cycle filter@8.83MHz
> and the TS-830 manual calls for a YK-88C 500 cycle filter@8.83MHz.
> Can anyone tell me the difference, and if I can use the YG88C in my
> TS-830. Thanks, and this is a wonderful group of helpful Hams. Bill
> W5ZV
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

23709. DMP 31 Mic from Kiwi land

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-11-30 23:12:18 UTC
From: Rich Jones
Topic: 23709 Message: 23709

Kevin wrote:
I was going through some gear of mine and came across; in excelent condition
Pioneer DM-31 Dynamic mic.
I got this in my youth when I was doing a little DJing, with real records.
That was a long time ago and then put away. I guess it has not been used for
over 20 years.
Upon finding it I thought about using it with my TS-830S, the impedance are
the same so this would make a nice shack boom mic.

So I am asking whether others have used a normal mic (not ham radio
releated) mated to a ham radio?
Guessing I am asking about the quality of audio?
If overall acceptable, I will make a foot/hand PTT switch and an adaptor
cable for the phono plug and the 4-pin socket on the radio.

Regards for any feedback.

Kevin, ZL1KFM.

Dr OM Kevin: I use a Heil PR-20 studio mic. In my opinion not really a ham mic. for DXing but very nice for casual rag chewing. I get good reports. When DXing in rough conditions or during contests, I use a different mic.. a Shure 521 hand mic. that has hi tones VS low mellow ones. I did modify my D-104 by tring different resisters in line with the green wire (audio) and get good reports from it too. Variety is the spice of life, you can't hurt your rig so why not?

What ever floats your boat and after all, your the boss. Try it. 73 Rich K8UV

[Non-text portions of this message have been removed]

23710. Need 520 knob and VFO drive parts

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-01 00:15:43 UTC
From: James Young
Topic: 23710 Message: 23710

My TS-520S was damaged in shipment. The main VFO tuning knob was broken, the dial scale behind it was bent, and the shaft was bent. Even though the knob turns the shaft, nothing happens to the tuning, i.e. I can't change the frequency.

Does anyone have these parts or an old 520 for parts or know where I could find them or get it repaired?

Many thanks,
WB5DVS
saved893(at)netscape.net

[Non-text portions of this message have been removed]

23711. RE: [TS-520_820_530_830] TS-830 Filters

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-01 00:46:23 UTC
From: Bill Hart
Topic: 23702 Message: 23711

Thanks for the info Dick, I'll see if I can find the posts.
73
Bill
W5ZV

--- On Mon, 11/30/09, Dick Merryman <dicko@...> wrote:

From: Dick Merryman <dicko@...>
Subject: RE: [TS-520_820_530_830] TS-830 Filters
To: TS-520_820_530_830@yahoogroups.com
Date: Monday, November 30, 2009, 3:02 PM

Bill-

There was a discussion about this a couple of years ago on QRZ

http://forums. qrz.com/archive/ index.php/ t-117637. html . One guy said he

used it OK while another said no way. The guy that said it was OK is AB9LZ

and you could probably ask him.

-Dick-

N3XRU

_____

From: TS-520_820_530_ 830@yahoogroups. com

[mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of Hartlessone

Sent: Monday, November 30, 2009 11:05 AM

To: TS-520_820_530_ 830@yahoogroups. com

Subject: [TS-520_820_ 530_830] TS-830 Filters

Does anyone have data sheets on the YK-88C and the YG88C kenwood filters? I

have a YG-88C filter which is a 500 cycle filter@8.83MHz

<mailto:filter% 408.83MHz> and the TS-830 manual calls for a YK-88C 500

cycle filter@8.83MHz <mailto:filter% 408.83MHz> . Can anyone tell me the

difference, and if I can use the YG88C in my TS-830. Thanks, and this is a

wonderful group of helpful Hams.

Bill

W5ZV

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23712. Re: [TS-520_820_530_830] Need 520 knob and VFO drive parts

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-01 00:57:57 UTC
From: Dave ve3wej
Topic: 23710 Message: 23712

have you taken it apart yet you may be able to straighten the dial,
straighten the shaft???? then only will need a knob

----- Original Message -----
From: "James Young" <jwyoung2@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, November 30, 2009 7:15 PM
Subject: [TS-520_820_530_830] Need 520 knob and VFO drive parts

My TS-520S was damaged in shipment. The main VFO tuning knob was broken, the
dial scale behind it was bent, and the shaft was bent. Even though the knob
turns the shaft, nothing happens to the tuning, i.e. I can't change the
frequency.

Does anyone have these parts or an old 520 for parts or know where I could
find them or get it repaired?

Many thanks,
WB5DVS
saved893(at)netscape.net

[Non-text portions of this message have been removed]

Yahoo! Groups Links

23713. RE: [TS-520_820_530_830] Need 520 knob and VFO drive parts

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-01 01:56:53 UTC
From: Dick Merryman
Topic: 23710 Message: 23713

K4EAA sells used parts from junk rigs. Try asking him.

-Dick-
N3XRU

_____

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Dave ve3wej
Sent: Monday, November 30, 2009 4:58 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Need 520 knob and VFO drive parts

have you taken it apart yet you may be able to straighten the dial,
straighten the shaft???? then only will need a knob

----- Original Message -----
From: "James Young" <jwyoung2@yahoo. <mailto:jwyoung2%40yahoo.com> com>
To: <TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com>
Sent: Monday, November 30, 2009 7:15 PM
Subject: [TS-520_820_530_830] Need 520 knob and VFO drive parts

My TS-520S was damaged in shipment. The main VFO tuning knob was broken, the

dial scale behind it was bent, and the shaft was bent. Even though the knob
turns the shaft, nothing happens to the tuning, i.e. I can't change the
frequency.

Does anyone have these parts or an old 520 for parts or know where I could
find them or get it repaired?

Many thanks,
WB5DVS
saved893(at)netscape.net

[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

23714. Re: [TS-520_820_530_830] Need 520 knob and VFO drive parts

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-01 07:48:47 UTC
From: vlincoln@frontiernet.net
Topic: 23710 Message: 23714

http://www.k4eaa.com/ ken

http://www.avvid.com/ Clif

do NOT use kenwood factory warranty service

At 00:15 12/1/2009, James Young wrote:
>
>
>My TS-520S was damaged in shipment. The main VFO tuning knob was
>broken, the dial scale behind it was bent, and the shaft was
>bent. Even though the knob turns the shaft, nothing happens to the
>tuning, i.e. I can't change the frequency.
>
>Does anyone have these parts or an old 520 for parts or know where I
>could find them or get it repaired?
>
>Many thanks,
>WB5DVS
>saved893(at)netscape.net

23715. RE: [TS-520_820_530_830] confirmation of membership

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-01 10:19:56 UTC
From: Dan
Topic: 23703 Message: 23715

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of g3xhp
Sent: Tuesday, 1 December 2009 5:41 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] confirmation of membership

[Non-text portions of this message have been removed]

23716. Re: need help

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-01 04:23:25 UTC
From: wb7uqu
Topic: 23683 Message: 23716

tnx..now that i know kinda what i'm doin' life is better!! still on a learnin' curve on these rigs.. HI

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello Joseph,
>
> The voltage adjustments on the 820's AF AVR UNIT board are covered in the 820's service manual starting on page 44.
>
> You can download the 820 service manual from the following website, free:
>
> www.n6wk.com/kenwood/
>
> Scroll down the page and click on the 820 service manual link.
>
> To make the adjustments, remove the power plug from the rear panel and remove both top and bottom covers.
>
> Turn the 820 upside down, front panel facing you, and locate the AF AVR board directly below the VFO.
>
> Note the 2 plug along the AF AVR board that are closest to the front panel, these are labeled AF1 and AF2.
>
> The plug pins are numbered right to left, 1, 2, 3, 4, 5, and 6.
>
> Connect a DC volt meter to AF1 pin 1 or 2.
>
> Reconnect the power cable to the rear and make sure the speaker is connected and power up the 820. Leave the 820 powered up for 30 minutes before making any adjustments.
>
> Note the voltage on AF1 pin 1 or 2. If it is not 9VDC, adjust VR4 located in the middle of the AF AVR board so the meter reads 9VDC +/- .5VDC. Do NOT adjust the large plastic pot, that's the "RIT" voltage pot.
>
> Once you have completed the 9VDC voltage adjustment, move the DC volt meter probe to plug AF2 pin 6. The voltage should be 3.3VDC, +/- .5VDC. If the voltage is not 3.3VDC then adjust VR1, located between plugs AF1 and AF2, for a meter reading of 3.3VDC +/- .5VDC.
>
> This completes the voltage adjustments on the AF AVR board.
>
> One additional comment. The primary source of drift in the 820 is instability in the 9VDC supply which powers the VFO whether internal and/or external. Instability in the 9VDC AF AVR supply affects the stability of the VFOs which causes drift in the 820. Instability in

the 9VDC supply is typically caused by D5 (6 volt zener) and regulator Q7 (2SA496Y). Replacing both components will significantly reduce the drift in the 820.
>
> You can obtain both components, D5 and Q7, from the following website.
>
> http://www.electronicsurplus.com/ccp78762-to-220-pnp-transistor-2sa496-y-13844.htm
>
> Any 6.1 volt 1/2 watt zener will work fine as a replacement for D5. The above website sells a 6.1 volt 1 watt zener for 25 cents each, must purchase minimum of 4, which will also work fine.
>
> http://www.electronicsurplus.com/ccp77886-6-2v-1w-525-do-41-axial-zener-diodes-min-purchase--1n4735a-22930.htm
>
> I have an 820 that had a significant amount of drift after the 30 minute warm up period. I replaced both D5 and Q7 on the AF AVR board and the drift was significantly reduced to factory specifications. If you replace D5 and Q7, you will have to readjust the 9VDC then the 3.3VDC adjustments on the AF AVR board.
>
> I reused the heat sink on Q7. I simply applied some additional silicon grease between the transistor and the heat sink. The heat sink will feel warm to the touch, which is normal, during normal operation.
>
> 73s
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "stilesjoseph" <stilesjoseph@> wrote:
> >
> > i still need help in some identification and adjustment of the voltages on a TS820S AF-AVR board...tnx de wb7uqu
> >
>

23717. Re: confirmation of membership

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-01 17:36:17 UTC
From: CharlesR
Topic: 23703 Message: 23717

Hi! I have recieved 2 of these confirmations

Charlie Rodecap
KA9HDG

23718. KENWOOD SERVICE MANUAL FOR TS 820 S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-01 19:00:06 UTC
From: maxigrip@sbcglobal.net
Topic: 23718 Message: 23718

Is there a web site where I can download a service manual for a TS 820S?
Dan KA8P

23719. Re: [TS-520_820_530_830] KENWOOD SERVICE MANUAL FOR TS 820 S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-01 20:04:38 UTC
From: Dave ve3wej
Topic: 23718 Message: 23719

yes

----- Original Message -----
From: <maxigrip@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, December 01, 2009 2:00 PM
Subject: [TS-520_820_530_830] KENWOOD SERVICE MANUAL FOR TS 820 S

> Is there a web site where I can download a service manual for a TS 820S?
> Dan KA8P
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

23720. website now

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-01 20:10:45 UTC
From: Dave ve3wej
Topic: 23720 Message: 23720

http://www.n6wk.com/kenwood/

23721. Re: KENWOOD SERVICE MANUAL FOR TS 820 S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-01 21:41:41 UTC
From: w5rkl
Topic: 23718 Message: 23721

Dan,

You can download the operator and service manuals plus a high resolution schematic of the 820 at the following link:

www.n6wk.com/kenwood/

Scroll down the page and click on the appropriate link.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "maxigrip@..." <maxigrip@...> wrote:
>
> Is there a web site where I can download a service manual for a TS 820S?
> Dan KA8P
>

23722. Re: confirmation of membership

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-01 21:43:48 UTC
From: w5rkl
Topic: 23703 Message: 23722

Once you receive the acceptance email, you do not have to do anything, just log onto Yahoo Groups and select this forum from your groups.

Welcome and enjoy.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "CharlesR" <millwrightmonkey@...> wrote:
>
>
> Hi! I have recieved 2 of these confirmations
>
> Charlie Rodecap
> KA9HDG
>

23723. Re: [TS-520_820_530_830] KENWOOD SERVICE MANUAL FOR TS 820 S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-02 06:25:22 UTC
From: Chris and Alex
Topic: 23718 Message: 23723

Hi Dan,

It's all here http://www.n6wk.com

73
Chris SV0XBQ/9

2009/12/1 maxigrip@... <maxigrip@...>

>
>
> Is there a web site where I can download a service manual for a TS 820S?
> Dan KA8P
>
>
>

[Non-text portions of this message have been removed]

23724. Re: confirmation of membership

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-02 01:18:33 UTC
From: jstanicek
Topic: 23703 Message: 23724

This is a bit confusing !

Jim AG3Y

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Once you receive the acceptance email, you do not have to do anything, just log onto Yahoo Groups and select this forum from your groups.
>
> Welcome and enjoy.
>
> 73s
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "CharlesR" <millwrightmonkey@> wrote:
> >
> >
> > Hi! I have recieved 2 of these confirmations
> >
> > Charlie Rodecap
> > KA9HDG
> >
>

23725. TS 820S FUNCTION SWITCH

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-02 15:45:47 UTC
From: maxigrip@sbcglobal.net
Topic: 23725 Message: 23725

I recently purchased a TS 820S, everything seems to work except the function switch does not always work unless I wiggle and pull on it.Is this acommon problem and can it be repaired or replaced?

Dan KA8P

23726. Re: [TS-520_820_530_830] KENWOOD SERVICE MANUAL FOR TS 820 S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-02 15:36:53 UTC
From: DANIEL MARTIN
Topic: 23718 Message: 23726

thank you for the info.....KA8P Dan

--- On Wed, 12/2/09, Chris and Alex <alexandchrisp@...> wrote:

From: Chris and Alex <alexandchrisp@gmail.com>
Subject: Re: [TS-520_820_530_830] KENWOOD SERVICE MANUAL FOR TS 820 S
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, December 2, 2009, 1:25 AM

Hi Dan,

It's all here http://www.n6wk.com

73
Chris SV0XBQ/9

2009/12/1 maxigrip@... <maxigrip@...>

>
>
> Is there a web site where I can download a service manual for a TS 820S?
> Dan KA8P
>
>
>

[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

23727. RE: [TS-520_820_530_830] TS 820S FUNCTION SWITCH

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-02 16:48:01 UTC
From: Greg Anders
Topic: 23725 Message: 23727

Hi Dan,

This is normal and I would expect it in any radio of this age.
Buy some De-Oxit if you don't have any. Thoroughly spray it into the function switch between any adjacent wafers. You probably won't be able to see whether its actually cleaning the contacts but it will. I use the plastic extender tool supplied with De-OXit to get the spray between the segments. I spray it thoroughly once, work the function switch thru all positions 14-20 times, then repeat the process one more time. Then I return the radio to its normal orientation on the bench and let it drip dry for at least 24 hrs before applying power.

FYI, I have now fixed dirty function switches in numerous Kenwoods (520/820/830) and several Yaesu FT-101's. 30+ years of use/storage almost certainly suggest on any of these old sets I expect to have function switch continuity issues in some positions. BTW, its not a bad idea to inspect the bandswitch segments for tarnish as well. If they have any I spray them, run the bandswitch 15-20 times thru each position, drain/dry as well.

De-Oxit is found at Antique Electronic Supply in Tempe Az, Fry's Electronics, and probably a whole host of suppliers. They have several strengths available, the DeOxit D5 (red/black label) is plenty good for this application.

FYI,

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of maxigrip@sbcglobal.net
Sent: Wednesday, December 02, 2009 7:46 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS 820S FUNCTION SWITCH

I recently purchased a TS 820S, everything seems to work except the function switch does not always work unless I wiggle and pull on it.Is this acommon problem and can it be repaired or replaced?

Dan KA8P

[Non-text portions of this message have been removed]

23728. RE: [TS-520_820_530_830] TS 820S FUNCTION SWITCH

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-02 18:26:44 UTC
From: DANIEL MARTIN
Topic: 23725 Message: 23728

Thank you for the info. I am very impressed with the quality of this radio. The receiver is as good as my K3 and Flex and the audio is superb.
--- On Wed, 12/2/09, Greg Anders <greg.anders@...> wrote:

From: Greg Anders <greg.anders@...>
Subject: RE: [TS-520_820_530_830] TS 820S FUNCTION SWITCH
To: "TS-520_820_530_830@yahoogroups.com" <TS-520_820_530_830@yahoogroups.com>
Date: Wednesday, December 2, 2009, 11:48 AM

Hi Dan,

This is normal and I would expect it in any radio of this age.
Buy some De-Oxit if you don't have any. Thoroughly spray it into the function switch between any adjacent wafers. You probably won't be able to see whether its actually cleaning the contacts but it will. I use the plastic extender tool supplied with De-OXit to get the spray between the segments. I spray it thoroughly once, work the function switch thru all positions 14-20 times, then repeat the process one more time. Then I return the radio to its normal orientation on the bench and let it drip dry for at least 24 hrs before applying power.

FYI, I have now fixed dirty function switches in numerous Kenwoods (520/820/830) and several Yaesu FT-101's. 30+ years of use/storage almost certainly suggest on any of these old sets I expect to have function switch continuity issues in some positions. BTW, its not a bad idea to inspect the bandswitch segments for tarnish as well. If they have any I spray them, run the bandswitch 15-20 times thru each position, drain/dry as well.

De-Oxit is found at Antique Electronic Supply in Tempe Az, Fry's Electronics, and probably a whole host of suppliers. They have several strengths available, the DeOxit D5 (red/black label) is plenty good for this application.

FYI,

Greg
KG6YV

From: TS-520_820_530_ 830@yahoogroups. com [mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of maxigrip@sbcglobal. net
Sent: Wednesday, December 02, 2009 7:46 AM
To: TS-520_820_530_ 830@yahoogroups. com
Subject: [TS-520_820_ 530_830] TS 820S FUNCTION SWITCH

I recently purchased a TS 820S, everything seems to work except the function switch does not always work unless I wiggle and pull on it.Is this acommon problem and can it be repaired or replaced?

Dan KA8P

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23729. Re: [TS-520_820_530_830] TS 820S FUNCTION SWITCH

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-02 21:50:23 UTC
From: John Davidson
Topic: 23725 Message: 23729

replacing the function switch is a lot easier than the band switch !

--- On Wed, 12/2/09, maxigrip@... <maxigrip@...> wrote:

From: maxigrip@... <maxigrip@...>
Subject: [TS-520_820_530_830] TS 820S FUNCTION SWITCH
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, December 2, 2009, 10:45 AM

I recently purchased a TS 820S, everything seems to work except the function switch does not always work unless I wiggle and pull on it.Is this acommon problem and can it be repaired or replaced?

Dan KA8P

[Non-text portions of this message have been removed]

23730. door knob cap

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-03 02:28:52 UTC
From: Kevin King
Topic: 23730 Message: 23730

Please check your parts bin. I am looking for a 1000pf 6kvdc door knob cap.

Thanks for checking

-Kevin

KC6OVD

[Non-text portions of this message have been removed]

23731. Re: KENWOOD SERVICE MANUAL FOR TS 820 S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-03 08:28:31 UTC
From: N9WB
Topic: 23718 Message: 23731

Gordon's Kenwood Page, a great resource!
http://www.n6wk.com/kenwood/

--- In TS-520_820_530_830@yahoogroups.com, "maxigrip@..." <maxigrip@...> wrote:
>
> Is there a web site where I can download a service manual for a TS 820S?
> Dan KA8P
>

23732. [TS-520_820_530_830] DMP 31 Mic from Kiwi land

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-03 09:18:40 UTC
From: Walt Breining
Topic: 23709 Message: 23732

Usually I can find information on just about any pro mike but I can't find this one. I am guessing that it is high impedance, dynamic. Give it a try, it might sound good.

I enjoy using professional vocal and studio mikes on amateur radio, particularly antique ones.
I made a PTT switch out of a bottle that diabetic test strips come in. I placed a square PTT button on the bottom end and brought out a piece of flexible RG-58 to the mike plug.

Hiel Sound makes a very nice unit that does this.

Do not worry too much about impedance. If you use a low impedance mike on a high impedance rig, the level may be low. If you use a high impedance mike on a low impedance rig, the level may be low and the frequency response may be narrowed but probably not enough to notice with the narrow bandwidth of Amateur Radio.

If you don't like how it sounds, tell us what is happening and we will offer some tips.

Please note that we have a Yahoo group associated with this one called KenwoodMics.

Another cool Yahoo group that I have joined is micsANDaudio

Vy 73, Walt N9WB

----- Original Message -----
From: Rich Jones
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, November 30, 2009 6:12 PM
Subject: [TS-520_820_530_830] DMP 31 Mic from Kiwi land

Kevin wrote:
I was going through some gear of mine and came across; in excellent condition
Pioneer DM-31 Dynamic mic.
I got this in my youth when I was doing a little DJing, with real records. That was a long time ago and then put away. I guess it has not been used for over 20 years.
Upon finding it I thought about using it with my TS-830S, the impedance are the same so this would make a nice shack boom mic.

So I am asking whether others have used a normal mic (not ham radio related) mated to a ham radio?
Guessing I am asking about the quality of audio?

If overall acceptable, I will make a foot/hand PTT switch and an adapter cable for the phono plug and the 4-pin socket on the radio.

Regards for any feedback.

Kevin, ZL1KFM.

Dr OM Kevin: I use a Heil PR-20 studio mic. In my opinion not really a ham mic. for DXing but very nice for casual rag chewing. I get good reports. When DXing in rough conditions or during contests, I use a different mic.. a Shure 521 hand mic. that has hi tones VS low mellow ones. I did modify my D-104 by tring different resisters in line with the green wire (audio) and get good reports from it too. Variety is the spice of life, you can't hurt your rig so why not?

What ever floats your boat and after all, your the boss. Try it. 73 Rich K8UV

[Non-text portions of this message have been removed]

23733. SSTV and CW through PC usig TS 520 SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-03 08:45:02 UTC
From: kshitij mathur
Topic: 23733 Message: 23733

Dear Group Members

While reading the Manual of TS 520 SE , I came to know that I can use SSTV also with this Rig using Phone Patch IN and OUT sockets- can any body give me a simple circuit which can connect my rig to my PC- I shall be using MMSTV software. Also I need to use CW through my PC

It is the interface which is a problem for me

Need help

73

Kshitij

VU2CDW

The INTERNET now has a personality. YOURS! See your Yahoo! Homepage. http://in.yahoo.com/

[Non-text portions of this message have been removed]

23734. Re: [TS-520_820_530_830] SSTV and CW through PC usig TS 520 SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-03 09:38:10 UTC
From: Chris and Alex
Topic: 23733 Message: 23734

A quick and easy way to interface is to use a transformer off an old pc
modem card. PC repair shops will give them away. If the level isn't right
just turn it around.

Chris SV0XBQ/9

2009/12/3 kshitij mathur <telestar1960@yahoo.com>

>
>
> Dear Group Members
>
> While reading the Manual of TS 520 SE , I came to know that I can use SSTV
> also with this Rig using Phone Patch IN and OUT sockets- can any body give
> me a simple circuit which can connect my rig to my PC- I shall be using
> MMSTV software. Also I need to use CW through my PC
>
> It is the interface which is a problem for me
>
> Need help
>
> 73
>
> Kshitij
>
> VU2CDW
>
> The INTERNET now has a personality. YOURS! See your Yahoo! Homepage.
> http://in.yahoo.com/
>
> [Non-text portions of this message have been removed]
>
>
>

[Non-text portions of this message have been removed]

23735. Re: [TS-520_820_530_830] SSTV and CW through PC usig TS 520 SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-03 12:12:11 UTC
From: James French
Topic: 23733 Message: 23735

Here is a schematic for a nice simple interface much like what the old
Digipan interface was like. Very few parts needed.

http://www.qsl.net/wm2u/images/interface_kb8xi.jpg

I got my DIgipan interface from a ham that was downsizing and have
used it with my Icom IC-820 and a number of other HF and VHF+
radios with no problems for any of the digital modes from SSTV to WSJT.
I haven't used it with my FT-520s yet, so you'll have to figure out how to
interface it properly.

James W8ISS

23736. Re: [TS-520_820_530_830] SSTV and CW through PC usig TS 520 SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-03 14:05:13 UTC
From: Bill Hart
Topic: 23733 Message: 23736

The SingalLink USB is the best and easiest way to go and you don't have to build it. Also, it will allow you to use almost other digital modes. Cost with cable is about $100.
73
Bill
W5ZV

--- On Thu, 12/3/09, kshitij mathur <telestar1960@...> wrote:

From: kshitij mathur <telestar1960@yahoo.com>
Subject: [TS-520_820_530_830] SSTV and CW through PC usig TS 520 SE
To: TS-520_820_530_830@yahoogroups.com
Date: Thursday, December 3, 2009, 3:45 AM

Dear Group Members

While reading the Manual of TS 520 SE , I came to know that I can use SSTV also with this Rig using Phone Patch IN and OUT sockets- can any body give me a simple circuit which can connect my rig to my PC- I shall be using MMSTV software. Also I need to use CW through my PC

It is the interface which is a problem for me

Need help

73

Kshitij

VU2CDW

The INTERNET now has a personality. YOURS! See your Yahoo! Homepage. http://in.yahoo. com/

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[Non-text portions of this message have been removed]

23737. Re: door knob cap

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-03 18:58:34 UTC
From: scott10k
Topic: 23730 Message: 23737

--- In TS-520_820_530_830@yahoogroups.com, "Kevin King" <kc6ovd@...> wrote:
>
> Please check your parts bin. I am looking for a 1000pf 6kvdc door knob cap.
>
>
>
>
>
> Thanks for checking
>
> -Kevin
>
> KC6OVD
>
>
Kevin,

Check the RfParts web page, as they have doorknob capacitors for sale.
73s, Scott, N6CIC
>
> [Non-text portions of this message have been removed]
>

23738. TS-520 Replacement question for C15/C16

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-03 19:45:09 UTC
From: ganders52
Topic: 23738 Message: 23738

Hi all,

I am planning to replace C-15 and C-16 (the caps on the 300V line I believe)in my TS520SE, which I see from one simple picture in the Service Manual sit in the metal box under two small PWB's in the left back corner of the radio. I have not removed the boards yet so I went to the service manual to see what I could find out about these two 22uf caps.

The drawing isn't clear what they are physically. So, if anyone has been into this before can anyone tell me if they are "clamp mount" electrolytics, twist mount "er-what"???

Thanks for your help,

Greg
KG6YV

23739. Re: [TS-520_820_530_830] SSTV and CW through PC usig TS 520 SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-03 20:21:13 UTC
From: Dave ve3wej
Topic: 23733 Message: 23739

the only thing I would add to this simple circuit, is that if you can use the vox on your hf, you do NOT need the serial cable/ptt line on the interface...

> Here is a schematic for a nice simple interface much like what the old
> Digipan interface was like. Very few parts needed.
>
> http://www.qsl.net/wm2u/images/interface_kb8xi.jpg
>

23740. TS-520 Replacement question for C15/C16

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-03 21:03:28 UTC
From: ganders52
Topic: 23738 Message: 23740

Hi all,

I am planning to replace C-15 and C-16 (the caps on the 300V line I believe)in my TS520SE, which I see from one simple picture in the Service Manual sit in the metal box under two small PWB's in the left back corner of the radio. I have not removed the boards yet so I went to the service manual to see what I could find out about these two 22uf caps.

The drawing isn't clear what they are physically. So, if anyone has been into this before can anyone tell me if they are "clamp mount" electrolytics, twist mount "er-what"???

Thanks for your help,

Greg
KG6YV

23741. Re: TS-520 Replacement question for C15/C16

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-03 22:05:10 UTC
From: w5rkl
Topic: 23738 Message: 23741

Greg,

The capacitors you are talking about are actually 2 capacitors in each can. C15 is actually two 22ufd 450VDC capacitors in a can. The same goes for C16. Both C15A/B and C16A/B are located on the top left rear under the MARKER and VOX UNIT boards. Each can is mounted using a chassis mounted clamp.

You should inspect the bottom of each can by removing the top and bottom covers. Turn the 520 upside down with the front panel facing you. The bottom of each can can be inspected on the right rear. Each capacitor can has 3 leads, 2 positive terminals and 1 ground.

Look for bulges or a broken seal between the capacitor terminals. If a bulge or broken seal is found then the capacitors need replaced.

The 520, 520S, 520SE, 820, and 820S all have the same dual capacitor cans. Directly dual capacitor cans are no longer available. To replace the capacitors, individual radial lead capacitors are used. I replaced both cans, 4 capacitors, with 4 individual radial lead 22ufd 450VDC capacitors, new 470K 1/2 watt resistor, and a multi-tab terminal strip. It's a tight fit but it can be done if you take your time and think how you will mount the terminal strip and the caps.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "ganders52" <greg.anders@...> wrote:
>
> Hi all,
>
> I am planning to replace C-15 and C-16 (the caps on the 300V line I believe)in my TS520SE, which I see from one simple picture in the Service Manual sit in the metal box under two small PWB's in the left back corner of the radio. I have not removed the boards yet so I went to the service manual to see what I could find out about these two 22uf caps.
>
> The drawing isn't clear what they are physically. So, if anyone has been into this before can anyone tell me if they are "clamp mount" electrolytics, twist mount "er-what"???
>
> Thanks for your help,
>
> Greg
> KG6YV
>

23742. RE: [TS-520_820_530_830] Re: TS-520 Replacement question for C15/C16

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-03 22:11:07 UTC
From: Greg Anders
Topic: 23738 Message: 23742

Thanks Mike,

I was aware that they are dual section caps. There are some 30uf duals available @450V I plan to use. I also planned to replace the resistors. I would rather not have to "jury-rig" with separate radials or axials but in a pinch I guess it works.

Thanks for the answer on the clamp mount.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
Sent: Thursday, December 03, 2009 2:05 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS-520 Replacement question for C15/C16

Greg,

The capacitors you are talking about are actually 2 capacitors in each can. C15 is actually two 22ufd 450VDC capacitors in a can. The same goes for C16. Both C15A/B and C16A/B are located on the top left rear under the MARKER and VOX UNIT boards. Each can is mounted using a chassis mounted clamp.

You should inspect the bottom of each can by removing the top and bottom covers. Turn the 520 upside down with the front panel facing you. The bottom of each can can be inspected on the right rear. Each capacitor can has 3 leads, 2 positive terminals and 1 ground.

Look for bulges or a broken seal between the capacitor terminals. If a bulge or broken seal is found then the capacitors need replaced.

The 520, 520S, 520SE, 820, and 820S all have the same dual capacitor cans. Directly dual capacitor cans are no longer available. To replace the capacitors, individual radial lead capacitors are used. I replaced both cans, 4 capacitors, with 4 individual radial lead 22ufd 450VDC capacitors, new 470K 1/2 watt resistor, and a multi-tab terminal strip. It's a tight fit but it can be done if you take your time and think how you will mount the terminal strip and the caps.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "ganders52" <greg.anders@...> wrote:
>
> Hi all,
>

> I am planning to replace C-15 and C-16 (the caps on the 300V line I believe)in my TS520SE, which I see from one simple picture in the Service Manual sit in the metal box under two small PWB's in the left back corner of the radio. I have not removed the boards yet so I went to the service manual to see what I could find out about these two 22uf caps.
>
> The drawing isn't clear what they are physically. So, if anyone has been into this before can anyone tell me if they are "clamp mount" electrolytics, twist mount "er-what"???
>
> Thanks for your help,
>
> Greg
> KG6YV
>

[Non-text portions of this message have been removed]

23743. KENWOOD AT-230 TUNER QUESTION

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-03 18:14:33 UTC
From: popzemail
Topic: 16121 Message: 23743

Greetings Group, I find I am in need of a replacement 'R' Tune variable capacitor to replace the damaged one in my tuner. I called Kenwood and 'Leo' advised there are none available in North America or Japan.

Any assistance locating a good replacement variable cap either new or reclaimed or any suggestions to effectively repair the broken shaft would be most welcome and greatly appreciated.

73 John
VE3IZM

Email direct to: jd.hetherington(@)hotmail.com

23744. accessories for TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-03 19:30:30 UTC
From: rkersey tds.net
Topic: 23744 Message: 23744

Hello All,

I'm getting ready to set up my station with the TS-830S. I'd like to add a remote VFO for split operation and a transverter for 6 meters. However, the Kenwood dedicated VFO's are expensive [~$275] and the dedicated 6m transverters are hard to find and don't get great reviews. Could I use a VFO-120 or VFO-820 on the TS-830S or could I use a
VFO from another manufacturer? Someone suggested just receiving on another receiver at the split frequency [always on?] is cheaper and easier. Could I use any 6m transverter that converted to 10 meters? Any
advice/recommendations greatly appreciated.

73
Roy Kersey
KI4HAG

[Non-text portions of this message have been removed]

23745. Re: [TS-520_820_530_830] door knob cap

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-03 15:03:22 UTC
From: N0BBB - Martin Wilcox
Topic: 23730 Message: 23745

Try this place if all else fails,
http://www.surplussales.com/capacitors/Trans_Coup_Caps/cap_trans.html

Good luck,

73,
Marty - N0BBB

From: Kevin King <kc6ovd@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wed, December 2, 2009 9:28:52 PM
Subject: [TS-520_820_530_830] door knob cap

Please check your parts bin. I am looking for a 1000pf 6kvdc door knob cap.

Thanks for checking

-Kevin

KC6OVD

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23746. Antenna Designs / Problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-03 18:57:05 UTC
From: Music Maker
Topic: 23746 Message: 23746

.
.
.
Hello All,

As most know, I am just re-starting my Amateur Radio hobby after an absence of about 30 years. I am severely restricted by finances (I am a 74 year old State Pensioner!), but for the problems I have, even more restricted!

I now have a 'basic' rig set up, with the TS 520SE, AT230, SP23, HiMound HX 703, and MC50. I have been buying it in slowly over the last few weeks off Ebay.

Last item, I need now, is a half-decent Antenna.

I am in the middle of a large city, with absolutely no garden, just a small concrete slabbed, back yard about 15 feet long, with a 5ft high brick wall round it. I am in the middle of a row of 'town houses'.

I have been reading a lot on 'verticals' (my only option), but even second user 'Butternuts', or Diamonds, etc., are too expensive, also there is no room for ground plane radials. A real problem!

What I am looking at now, is to buy a new 6.6 metre CB 5/8 vertical antenna, and to feed it with an UNUN 9:1 Magnetic (Balun) Coupler. Total cost with all new, about 40 of your US Dollars!

I would mount this on a 9ft Steel pole (to get the RF away from Dogs and children!), with a copper earth rod driven into the ground immediately under it and earthing the outer of my coax there, (from the balun) at the farthest corner of the back yard wall.

I am then thinking of another copper Earth Rod driven into the ground under my living room window 15 ft away from the antenna to earth my rig from in the house, as well as another earth to a clamp on my water pipe, under the kitchen sink (where the Mains electricity is also earthed).

Sorry to 'ramble on' but I wanted to explain my plans in detail, to get evaluations of my thinking / ideas, for members to come up with better suggestions / ideas, to get me the most 'Bang per Buck!'

There is a 'commercial' vertical here on sale on Ebay, which I think is possibly exactly what I am thinking of doing. It is about 75 US Dollars.

http://cgi.ebay.co.uk/ws/eBayISAPI.dll?ViewItem&item=300363951551&ssPage\
Name=STRK:MEWAX:IT

Another idea I had was to use a hollow fishing pole about 9 or 10 Metres long, standing in a glass or plastic jar on the ground, with the 9:1 balun inside it the jar (and sealed), and to use a length of co-ax inside the whole length of the pole, using just the outer (or short inner and outer at each end?). It could start at ground level, as the tube would insulate the radiator, and also the connection from the Balun and feed coax outer would only be a few inches to the Earth Rod.

Any comments or suggestions are very welcome, before I start on this project,. and make a mess of it!.

Kind thoughts and 73's de G3OBU

John

www.John4Music.TV

.
.

23747. RE: [TS-520_820_530_830] accessories for TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-03 23:06:54 UTC
From: Greg Anders
Topic: 23744 Message: 23747

Hi Roy,

No you cannot use any of the VFO's you mention in your email. You are pretty much limited to the VFO-230 . Other transceivers have very different mixing schemes and their VFO's will not work.
Yes, you can use any transverter, you will just have to make up your own cables and make arrangements to power the transverter. You are not even limited to 10M IF for the transverter. You can choose to use 10M or even 20M, although most people use 10M because there is less chance of IF feed thru interference.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of rkersey tds.net
Sent: Thursday, December 03, 2009 11:31 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] accessories for TS-830S

Hello All,

I'm getting ready to set up my station with the TS-830S. I'd like to add a remote VFO for split operation and a transverter for 6 meters. However, the Kenwood dedicated VFO's are expensive [~$275] and the dedicated 6m transverters are hard to find and don't get great reviews. Could I use a VFO-120 or VFO-820 on the TS-830S or could I use a VFO from another manufacturer? Someone suggested just receiving on another receiver at the split frequency [always on?] is cheaper and easier. Could I use any 6m transverter that converted to 10 meters? Any advice/recommendations greatly appreciated.

73
Roy Kersey
KI4HAG

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23748. RE: [TS-520_820_530_830] Re: door knob cap

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-03 23:28:04 UTC
From: Kevin King
Topic: 23730 Message: 23748

They also have a minimum order amount to meet. But if I can not locate it anywhere else then that is the plan.

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of scott10k
Sent: Thursday, December 03, 2009 1:59 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: door knob cap

--- In TS-520_820_530_830@yahoogroups.com, "Kevin King" <kc6ovd@...> wrote:
>
> Please check your parts bin. I am looking for a 1000pf 6kvdc door knob cap.
>
>
>
>
>
> Thanks for checking
>
> -Kevin
>
> KC6OVD
>
>
Kevin,

Check the RfParts web page, as they have doorknob capacitors for sale.
73s, Scott, N6CIC
>
> [Non-text portions of this message have been removed]
>

Yahoo! Groups Links

23749. Re: [TS-520_820_530_830] accessories for TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-03 23:28:38 UTC
From: jsloss
Topic: 23744 Message: 23749

Roy: Low power (10-15) watt transverters are out there but it would be advantageous to have a bit more power when working on a band that can be subjected to weaker signals. You might look at the tube-type Heath SB-100 or -110A SSB/CW 6m transceiver or the Hallicrafters HA-6 transverter which uses 28 MHz as the RF input frequency. Both are in the 100W power range. The Drake TR-6 transceiver or their TC-6/SC-6 transverter are excellent 300W PEP rigs but can be a bit pricey due to scarcity.
Good luck - 6m is a great band. Your TN location should put you in good stead for E-skip contacts in the East and Mid-west US as well as the Caribbean, S. America and perhaps across the Atlantic during a good band opening.

73 Joe k7mks

[Non-text portions of this message have been removed]

23750. RE: [TS-520_820_530_830] door knob cap

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-03 23:43:56 UTC
From: Kevin King
Topic: 23730 Message: 23750

Thanks good link. But don't have the one I need. They do have much cool stuff!

-Kevin

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of N0BBB - Martin Wilcox
Sent: Thursday, December 03, 2009 10:03 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] door knob cap

Try this place if all else fails,
http://www.surplussales.com/capacitors/Trans_Coup_Caps/cap_trans.html

Good luck,

73,
Marty - N0BBB

From: Kevin King <kc6ovd@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wed, December 2, 2009 9:28:52 PM
Subject: [TS-520_820_530_830] door knob cap

Please check your parts bin. I am looking for a 1000pf 6kvdc door knob cap.

Thanks for checking

-Kevin

KC6OVD

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Yahoo! Groups Links

23751. Re: [TS-520_820_530_830] accessories for TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-03 23:51:04 UTC
From: Steve
Topic: 23744 Message: 23751

Roy,

The VFO-120 works well with the TS-530 and 830. Been using one for years. It's smaller and cheaper than the VFO-230 or 240. Looks like a shrunken VFO-240.

Steve W4IMF

----- Original Message -----
From: Greg Anders
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, December 03, 2009 6:06 PM
Subject: RE: [TS-520_820_530_830] accessories for TS-830S

Hi Roy,

No you cannot use any of the VFO's you mention in your email. You are pretty much limited to the VFO-230 . Other transceivers have very different mixing schemes and their VFO's will not work.
Yes, you can use any transverter, you will just have to make up your own cables and make arrangements to power the transverter. You are not even limited to 10M IF for the transverter. You can choose to use 10M or even 20M, although most people use 10M because there is less chance of IF feed thru interference.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of rkersey tds.net
Sent: Thursday, December 03, 2009 11:31 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] accessories for TS-830S

Hello All,

I'm getting ready to set up my station with the TS-830S. I'd like to add a remote VFO for split operation and a transverter for 6 meters. However, the Kenwood dedicated VFO's are expensive [~$275] and the dedicated 6m transverters are hard to find and don't get great reviews. Could I use a VFO-120 or VFO-820 on the TS-830S or could I use a VFO from another manufacturer? Someone suggested just receiving on another receiver at the split frequency [always on?] is cheaper and easier. Could I use any 6m transverter that converted to 10 meters? Any advice/recommendations greatly appreciated.

73
Roy Kersey
KI4HAG

[Non-text portions of this message have been removed]

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Certified Virus Free
Checked by AVG - www.avg.com
Version: 9.0.709 / Virus Database: 270.14.91/2542 - Release Date: 12/03/09 02:32:00

[Non-text portions of this message have been removed]

23752. Re: [TS-520_820_530_830] door knob cap

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-03 23:53:43 UTC
From: Troy Wideman
Topic: 23730 Message: 23752

Another good source (not sure if they have what you need) is:
http://www.mgs4u.com/RF-Microwave/doorknob-capacitors.htm

Troy, W6HV

From: "Kevin King" <kc6ovd@...>
Sent: Thursday, December 03, 2009 3:43 PM
To: <TS-520_820_530_830@yahoogroups.com>
Subject: RE: [TS-520_820_530_830] door knob cap

Thanks good link. But don't have the one I need. They do have much cool
stuff!

-Kevin

23753. Re: door knob cap

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-04 00:00:07 UTC
From: ah6rr1
Topic: 23730 Message: 23753

You could look on eBay. Here's one that is rated for 12KV
http://cgi.ebay.com/1000pF-12kV-Russian-Doorknob-Capacitor-Lot-of-2-NOS_W0QQitemZ200404115202QQcmdZViewItemQQptZLH_DefaultDomain_0?hash=item2ea9041f02
And here is one rated at 7.5KV a little pricey but no mim. to buy.
http://cgi.ebay.com/HEC-1000-Pf-7-5-KV-Doorknob-Capacitor-Ham-radio-CB_W0QQitemZ290348323506QQcmdZViewItemQQptZLH_DefaultDomain_0?hash=item439a1bd2b2

Hope this helps
Roland AH6RR

--- In TS-520_820_530_830@yahoogroups.com, "Troy Wideman" <w6hv@...> wrote:
>
> Another good source (not sure if they have what you need) is:
> http://www.mgs4u.com/RF-Microwave/doorknob-capacitors.htm
>
> Troy, W6HV
>
> ----------
> From: "Kevin King" <kc6ovd@...>
> Sent: Thursday, December 03, 2009 3:43 PM
> To: <TS-520_820_530_830@yahoogroups.com>
> Subject: RE: [TS-520_820_530_830] door knob cap
>
> Thanks good link. But don't have the one I need. They do have much cool
> stuff!
>
> -Kevin
>

23754. RE: [TS-520_820_530_830] Re: door knob cap

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-04 00:07:08 UTC
From: Kevin King
Topic: 23730 Message: 23754

I saw that 50 bucks delivered is on the high side!

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of ah6rr1
Sent: Thursday, December 03, 2009 7:00 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: door knob cap

You could look on eBay. Here's one that is rated for 12KV
http://cgi.ebay.com/1000pF-12kV-Russian-Doorknob-Capacitor-Lot-of-2-NOS_W0QQ
itemZ200404115202QQcmdZViewItemQQptZLH_DefaultDomain_0?hash=item2ea9041f02
And here is one rated at 7.5KV a little pricey but no mim. to buy.
http://cgi.ebay.com/HEC-1000-Pf-7-5-KV-Doorknob-Capacitor-Ham-radio-CB_W0QQi
temZ290348323506QQcmdZViewItemQQptZLH_DefaultDomain_0?hash=item439a1bd2b2

Hope this helps
Roland AH6RR

--- In TS-520_820_530_830@yahoogroups.com, "Troy Wideman" <w6hv@...> wrote:
>
> Another good source (not sure if they have what you need) is:
> http://www.mgs4u.com/RF-Microwave/doorknob-capacitors.htm
>
> Troy, W6HV
>
> ----------
> From: "Kevin King" <kc6ovd@...>
> Sent: Thursday, December 03, 2009 3:43 PM
> To: <TS-520_820_530_830@yahoogroups.com>
> Subject: RE: [TS-520_820_530_830] door knob cap
>
> Thanks good link. But don't have the one I need. They do have much cool
> stuff!
>
> -Kevin
>

Yahoo! Groups Links

23755. Re: Antenna Designs / Problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-04 02:52:59 UTC
From: morrisong32
Topic: 23746 Message: 23755

Hi You might try a Tak-tenna. They are easy to construct and tune and cost less than $150 with shipping. They are on a 30 inch boom, kind of a spiral dipole. NO ground radials are needed if mounted in the vertical position. You can use it horizontal or vertical. In horizontal it has a certain amount of directional ability. The antenna tunes to better than 1.2:1 SWR on 40 meters. You will need a manual tuner to work other bands, but it is easily doable. After tuning mine up, I hit a station 2000 miles away on my first try with 100 watts. The antenna is mounted on 1 inch PVC pipe, 6 feet off of a CONCRETE pool deck using an umbrella stand! Check the reviews on eham.

Glenn

--- In TS-520_820_530_830@yahoogroups.com, "Music Maker" <jhaddleton@...> wrote:
>
> .
> .
> .
> Hello All,
>
> As most know, I am just re-starting my Amateur Radio hobby after an
> absence of about 30 years. I am severely restricted by finances (I am
> a 74 year old State Pensioner!), but for the problems I have, even more
> restricted!
>
> I now have a 'basic' rig set up, with the TS 520SE, AT230, SP23, HiMound
> HX 703, and MC50. I have been buying it in slowly over the last few
> weeks off Ebay.
>
> Last item, I need now, is a half-decent Antenna.
>
> I am in the middle of a large city, with absolutely no garden, just a
> small concrete slabbed, back yard about 15 feet long, with a 5ft high
> brick wall round it. I am in the middle of a row of 'town houses'.
>
> I have been reading a lot on 'verticals' (my only option), but even
> second user 'Butternuts', or Diamonds, etc., are too expensive, also
> there is no room for ground plane radials. A real problem!
>
> What I am looking at now, is to buy a new 6.6 metre CB 5/8 vertical
> antenna, and to feed it with an UNUN 9:1 Magnetic (Balun) Coupler.
> Total cost with all new, about 40 of your US Dollars!
>
> I would mount this on a 9ft Steel pole (to get the RF away from Dogs and
> children!), with a copper earth rod driven into the ground immediately
> under it and earthing the outer of my coax there, (from the balun) at
> the farthest corner of the back yard wall.

>
> I am then thinking of another copper Earth Rod driven into the ground
> under my living room window 15 ft away from the antenna to earth my rig
> from in the house, as well as another earth to a clamp on my water pipe,
> under the kitchen sink (where the Mains electricity is also earthed).
>
> Sorry to 'ramble on' but I wanted to explain my plans in detail, to get
> evaluations of my thinking / ideas, for members to come up with better
> suggestions / ideas, to get me the most 'Bang per Buck!'
>
> There is a 'commercial' vertical here on sale on Ebay, which I think is
> possibly exactly what I am thinking of doing. It is about 75 US
> Dollars.
>
> http://cgi.ebay.co.uk/ws/eBayISAPI.dll?ViewItem&item=300363951551&ssPage\
> Name=STRK:MEWAX:IT
>
> Another idea I had was to use a hollow fishing pole about 9 or 10 Metres
> long, standing in a glass or plastic jar on the ground, with the 9:1
> balun inside it the jar (and sealed), and to use a length of co-ax
> inside the whole length of the pole, using just the outer (or short
> inner and outer at each end?). It could start at ground level, as the
> tube would insulate the radiator, and also the connection from the Balun
> and feed coax outer would only be a few inches to the Earth Rod.
>
> Any comments or suggestions are very welcome, before I start on this
> project,. and make a mess of it!.
>
> Kind thoughts and 73's de G3OBU
>
> John
>
> www.John4Music.TV
>
> .
> .
>

23756. Re: [TS-520_820_530_830] Antenna Designs / Problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-04 04:15:59 UTC
From: martin
Topic: 23746 Message: 23756

Hi John. I would be very Leary of that commercial antenna. At 21, it will be resonant somewhere between 12M and 15M (as a half wave). And This is the first time that I have heard of a 9:1 balun being used on an Amateur Radio transmitting antenna. And while most vertical antennas will work (sort of) without radials, they work far far better with them! Even a single radial for each band (that would actually be a counterpoise) is going to help the performance of the antenna. I have doubts about the CB antenna also.

Something that you might consider is a Hustlet 5BTV. They are not nearly as expensive as the others that you mention. It is a 5 band trap vertical They are very well made, although you may want to replace the nuts. bolts and screws with stainless steel or brass ones. The 5BVT can be ground mounted or mounted on a mast. When mast mounted, elevated radials are recommended. The elevated radials do not have to be in a strait line, they could be bent however you need.

Just my thoughts...

Music Maker wrote:
> .
> .
> .
> Hello All,
>
> As most know, I am just re-starting my Amateur Radio hobby after an
> absence of about 30 years. I am severely restricted by finances (I am
> a 74 year old State Pensioner!), but for the problems I have, even more
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>
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>
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> Total cost with all new, about 40 of your US Dollars!
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> the farthest corner of the back yard wall.
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> under the kitchen sink (where the Mains electricity is also earthed).
>
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> suggestions / ideas, to get me the most 'Bang per Buck!'
>
> There is a 'commercial' vertical here on sale on Ebay, which I think is
> possibly exactly what I am thinking of doing. It is about 75 US
> Dollars.
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> Name=STRK:MEWAX:IT
>
> Another idea I had was to use a hollow fishing pole about 9 or 10 Metres
> long, standing in a glass or plastic jar on the ground, with the 9:1
> balun inside it the jar (and sealed), and to use a length of co-ax
> inside the whole length of the pole, using just the outer (or short
> inner and outer at each end?). It could start at ground level, as the
> tube would insulate the radiator, and also the connection from the Balun
> and feed coax outer would only be a few inches to the Earth Rod.
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>
> Yahoo! Groups Links
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>

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CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

23757. Re: 520se transmitting???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-04 12:04:26 UTC
From: fjwheeler3
Topic: 23687 Message: 23757

Hi
Thanks for your response
I have built a 50 ohm dummy load and tuned
as per instructions.It tunes fine. I checked swr with meter
And it reads 1.1 with dummy load and antenna
hooked up. Power is 100 watts.
Astatic mic has amplifier at base.
I tried making a contact and they came back
saying it was distorted.So it appears I have a
Microphone problem
I wlll try to build an amplifier with hi output
impedance
Any suggestions?
KB1TCY
--- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@...> wrote:
>
> Hi Fred. First of all, you need a dummy load to tune up into. If by
> IP you mean the bias current, it should be 60MA not 70. The RF meter
> in the radio is NOT measuring watts, it is a relative reading. What
> do you mean by "uv reads a solid 300"?
>
> First follow the instructions in the manual for setting the bias
> current. Is the D-104 amplified? Whether it is or not, it may not be
> wired correctly internally to work with your radio. If it is one of
> the D-104 mics sold for CB use, it is probably amplified, and low
> impedance. Your radio requires a high impedance mic. The PTT and mic
> shield must be separate for it to work correctly. The same goes for
> pretty much any CB mic. The CB mic is probably a low impedance mic,
> and your radio requires a high impedance mic.
>
> As stated in the manual, the radio should only be operated into a
> dummy load, or an antenna with an SWR of 2:1 or less. If you do not
> have the manual, it can be downloaded from a nimber of places on the
> internet.
>
> TTYL
>
>
>
> fjwheeler3 wrote:
> > hi
> > I need the wisdom of the group.
> > I have a :520se into a 20 meter dipole 20ft high .
> > I followed the tuning procedure in the manual and the one
> > suggested on the list.

> > I can hear stations but can't work them
> > when I transmit the processor is pulled out ,meter onalc and needle moves within the alc markings.
> > ip is at 70 ma
> > when talking in mic rf meter reads 50-100
> > uv reads a solid 300
> > What I think;
> > swr is not correct.I bought a meter. on eBay and expect to
> > test in a few days.
> > I guessed that dipole cut to length with 40ft rg58 would be close
> > mic is distorted.
> > it is an astatic d104 bought at hamfest
> > It was missing connector so I wired it as per
> > manual. if alc is in range I must be inputting
> > something.
> > I have an old cb mike. can that be used if wired properly?
> > any help appreciated
> > Fred
> > kb1tcy
> >
> >
> >
> >
> >
>
> --
> CUL8R
>
> KBOHAE kb0hae@... Martin Campbell
>
> A Satisfied Sidux Linux user! To get Sidux go to:
> www.sidux.com/index.html
> "Protect your digital freedom and privacy, eliminate DRM, learn more
> at http://www.defectivebydesign.org/what_is_drm"
>

23758. Re: 520se transmitting???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-04 14:22:19 UTC
From: w5rkl
Topic: 23687 Message: 23758

I suspect the distortion problem is being caused by the amplified D-104 microphone level control on the bottom of the microphone stand is turned up too high. This can result in excessive audio levels being applied to the microphone speech amplifier inside the 520 which results in over driving the speech amplifier.

Turn all audio processing OFF.

If you have another non-amplified high impedance microphone then connect it to the 520. Set the 520's front panel MIC gain so the transmit audio produces an ALC meter indication that does not exceed the ALC meter scale and the transmit audio is clean and distortion free. Make a note of the ALC peak indication during sideband transmit.

Remove the non-amplified microphone and connect the amplifier D-104 to the 520.

Look on the bottom of the amplified D-104 and adjust the screw driver level control to minimum (counter clockwise). Set the 520's meter to ALC and while speaking normally into the microphone in sideband transmit, adjust the screw driver level control on the bottom of the amplified D-104 base to the point where the peak ALC meter indication is the same as the non-amplified ALC meter indication. Once you achieve that point stop adjusting the level control on the bottom of the D-104.

If you do not have another microphone, leave audio processing OFF and set the amplified D-104 level control at minimum and the front panel MIC gain control at 9 o'clock. Set the meter switch to ALC and while transmitting in sideband and speaking normally into the microphone, adjust the D-104 level control so the ALC meter indication on peaks does not exceed the ALC scale. Once you have achieved this setting, stop adjusting the D-104 level control.

I do not recommend using an amplified microphone on the 520 or any hybrid. The 520's speech amplifier is more than capable of producing excellent transmit audio without the use of external audio processing or amplification in the microphone.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "fjwheeler3" <fjwheeler3@...> wrote:
>
>
> Hi
> Thanks for your response
> I have built a 50 ohm dummy load and tuned
> as per instructions.It tunes fine. I checked swr with meter
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> Astatic mic has amplifier at base.
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> Microphone problem
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> KB1TCY
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> > > when I transmit the processor is pulled out ,meter onalc and needle moves within the
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> > > something.
> > > I have an old cb mike. can that be used if wired properly?
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> > --
> > CUL8R
> >
> > KBOHAE kb0hae@ Martin Campbell
> >
> > A Satisfied Sidux Linux user! To get Sidux go to:
> > www.sidux.com/index.html
> > "Protect your digital freedom and privacy, eliminate DRM, learn more
> > at http://www.defectivebydesign.org/what_is_drm"
> >
>

23759. Re: Antenna Designs / Problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-04 13:01:42 UTC
From: Music Maker
Topic: 23746 Message: 23759

.
.
Hello, and thank you for the quick response to my antenna problem.

I had already looked at the TAK-tenna, and that would cost a lot less, but is still expensive in UK at about 150 US Dollars - I think I may get one of these at a later point, after I have paid for my Grandchildrens Christmas 'Prezzies' !! - I really need something quick and cheap for 'now'.

The suggested 'Hustler' antenna is sadly just as expensive as the Butternut or Diamond antennas here in UK at over 300 dollars. Far too expensive for my limited funds!

[url]http://www.hamradio.co.uk/acatalog/Ant_Amateur_BHF_Vert_Hustler.htm\
l[/url]

I have done a lot of reading on the internet and have come (rightly or wrongly! HI) to the following conclusions ....

All metal objects have a resonant frequency, from a cuff-link to a long length of wire (we all know the formula!). Ideally, for antenna construction, an antenna should be a multiple or divider of the resonant full wave length of the frequency we wish to use. Anything other than this has to be a compromise. This can be overcome by using coils in the antenna length, which will reduce the physical length required, and other capacative, inductive or resistive combinations to achieve this resonant length to 'appear' at the feed point.

OR !!!

You can use an UNUN (Unbalanced to Unbalanced transformer), which is NOT a Balun (Balanced to Unbalanced) to produce the required RF impedance (50 Ohms) required at the feedpoint.

A 9:1 UNUN Transformer, will provide an unbalanced 50 Ohm feed point, to almost any length of wire or metal. which may or may not be resonant at the frequencies required.

This does not say that the random size antenna will be as efficient as a properly tuned length, but it does ensure that the random length presents a proper match to the Rx / Tx of between 25 and 90 Ohms, which can be converted to the required 50 Ohms by the use of an Antenna Tuning Unit.

My current thinking is that a ready made (and very cheap!) CB vertical 5/8 wave (6.6 Metre length) antenna would make an ideal and tidy

solution to my problems, with a 9:1 UNUN at its base, or perhaps, better still, a longer 'Carbon Fibre Fishing rod', with wire for the antenna inside it, would give a longer than 18ft length of the CB Antenna, surely a longer antenna length would increase its efficiency, even if not resonant?

Please read the following on the 9:1 UnUn .....

Professional ...
[url]http://www.snowdonia-radio-company.co.uk/unun-transformers.html[/ur\
l]

Amateur ......
[url]http://www.hams4u.com/kc0pet/9_1%20unun.htm[/url]

[url]http://www.bobsamerica.com/9-1balun.html[/url]

From the 'old days' when I first came into Amateur Radio (I was licenced in 1956 - Geez, that was over 50 years ago!!), when we used to experiment with everything, building our own receivers and Transmitters, etc. Today, with the advances to solid state high efficiency Transceivers, which are almost untouchable - the Antenna system is about all that is left to experiment (or mess!) with, unless of course, a person is of a very high technical (or genius) standard.

In those 'old days' - the antenna was everything, and I worked well over 100 countries CW with my first Transmitter - a single valve (6v6) 'homebrew' with all of 2 watts !! Sadly, I now have no space for the Aerial Farm I had in those days, and the limited 15ft X 15ft space I have now, in the centre of a large city, needs some serious experimentation!

Further comments and discussion would be appreciated, by you much more 'savvy' guys in the Group than myself , and I am sure we can all learn something new!! (Thats Amateur Radio!).

Kind thoughts and regards,

John G3OBU

www.John4Music.TV
.
.

--- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@...> wrote:
>
> Hi John. I would be very Leary of that commercial antenna. At 21, it
> will be resonant somewhere between 12M and 15M (as a half wave). And
> This is the first time that I have heard of a 9:1 balun being used on
> an Amateur Radio transmitting antenna. And while most vertical
> antennas will work (sort of) without radials, they work far far
> better with them! Even a single radial for each band (that would
> actually be a counterpoise) is going to help the performance of the

> antenna. I have doubts about the CB antenna also.
>
> Something that you might consider is a Hustlet 5BTV. They are not
> nearly as expensive as the others that you mention. It is a 5 band
> trap vertical They are very well made, although you may want to
> replace the nuts. bolts and screws with stainless steel or brass ones.
> The 5BVT can be ground mounted or mounted on a mast. When mast
> mounted, elevated radials are recommended. The elevated radials do
> not have to be in a strait line, they could be bent however you need.
>
> Just my thoughts...
>
> Music Maker wrote:
> > .
> > .
> > .
> > Hello All,
> >
> > As most know, I am just re-starting my Amateur Radio hobby after an
> > absence of about 30 years. I am severely restricted by finances
(I am
> > a 74 year old State Pensioner!), but for the problems I have, even
more
> > restricted!
> >
> > I now have a 'basic' rig set up, with the TS 520SE, AT230, SP23,
HiMound
> > HX 703, and MC50. I have been buying it in slowly over the last
few
> > weeks off Ebay.
> >
> > Last item, I need now, is a half-decent Antenna.
> >
> > I am in the middle of a large city, with absolutely no garden, just
a
> > small concrete slabbed, back yard about 15 feet long, with a 5ft
high
> > brick wall round it. I am in the middle of a row of 'town
houses'.
> >
> > I have been reading a lot on 'verticals' (my only option), but even
> > second user 'Butternuts', or Diamonds, etc., are too expensive,
also
> > there is no room for ground plane radials. A real problem!
> >
> > What I am looking at now, is to buy a new 6.6 metre CB 5/8 vertical
> > antenna, and to feed it with an UNUN 9:1 Magnetic (Balun) Coupler.
> > Total cost with all new, about 40 of your US Dollars!
> >
> > I would mount this on a 9ft Steel pole (to get the RF away from Dogs

and
> > children!), with a copper earth rod driven into the ground
immediately
> > under it and earthing the outer of my coax there, (from the balun)
at
> > the farthest corner of the back yard wall.
> >
> > I am then thinking of another copper Earth Rod driven into the
ground
> > under my living room window 15 ft away from the antenna to earth my
rig
> > from in the house, as well as another earth to a clamp on my water
pipe,
> > under the kitchen sink (where the Mains electricity is also
earthed).
> >
> > Sorry to 'ramble on' but I wanted to explain my plans in detail, to
get
> > evaluations of my thinking / ideas, for members to come up with
better
> > suggestions / ideas, to get me the most 'Bang per Buck!'
> >
> > There is a 'commercial' vertical here on sale on Ebay, which I think
is
> > possibly exactly what I am thinking of doing. It is about 75 US
> > Dollars.
> >
> >
http://cgi.ebay.co.uk/ws/eBayISAPI.dll?ViewItem&item=300363951551&ssPage\
\
> > Name=STRK:MEWAX:IT
> >
> > Another idea I had was to use a hollow fishing pole about 9 or 10
Metres
> > long, standing in a glass or plastic jar on the ground, with the 9:1
> > balun inside it the jar (and sealed), and to use a length of co-ax
> > inside the whole length of the pole, using just the outer (or short
> > inner and outer at each end?). It could start at ground level, as
the
> > tube would insulate the radiator, and also the connection from the
Balun
> > and feed coax outer would only be a few inches to the Earth Rod.
> >
> > Any comments or suggestions are very welcome, before I start on this
> > project,. and make a mess of it!.
> >
> > Kind thoughts and 73's de G3OBU
> >
> > John
> >

> > www.John4Music.TV

[Non-text portions of this message have been removed]

23760. Re: KENWOOD AT-230 TUNER QUESTION

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-04 14:12:07 UTC
From: oz1hyi
Topic: 16121 Message: 23760

--- In TS-520_820_530_830@yahoogroups.com, "hetherington.john" <hetherington.john@...>
wrote:
>
>
> Greetings (Again) everyone, I just purchased an AT-230 antenna tuner
> from ebay and happened to notice the following while I had the top
> cover off.
>
> When the plates of the R tune capacitor are fully meshed the red
> indicator on the tuning dial is pointing straight up at the 12'clock
> position (# 5 on the scale).
>
> Conversley when the plates are fully not meshed the red indicator is
> pointing straight down at the 6 o'clock position, obviously way off
> the adjustment scale.
>
> The X tune indicator is at 5 o'clock (way off scale) when the plates
> are fully meshed and at 11 o'clock (3.5 on the scale) when the plates
> are not meshed.
>
> Does this sound normal or has someone been puttering with the
> position of the knobs?
>
> I read the manual from cover to cover but there is no information on
> the settings for the knobs?
>
> In fact there is a paragraph in the manual that makes absoutely no
> sense to me at all??? It reads and I quote -
>
> MEASURING SWR WHEN USING THE COUPLER
>
> After completion of coupler adjustments, you may measure the
> transmitter and antenna match in a manner similar to get daker bed
> in "Measuring the antenna system SWR".
>
> Any ex Kenwood folks out there want to take a shot at this one???
> Something lost in the translation????
>
> Regards & 73's John VE3IZM
>
Hello

Mine AT 350 shows the caps is all in, when the knop says 0, and the caps is like a cirkle when the knop is pointing on 10... so you can adjust the knops by skrew it loose and fasten it again in the right possition.

I have a external homebrew SWR meter inline between the tx and the AT 350, and never used the built-in awr, so I know not the answer on your "translation" quwstion

Vy de OZ1HYI Willy.. Also 5P1W..

23761. Re: KENWOOD AT-230 TUNER QUESTION

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-04 16:10:12 UTC
From: Music Maker
Topic: 16121 Message: 23761

.
.
Hello John,

I have just opened up my AT 230 to look for you.

Fully Closed (Rotor Blades level with Stators) - are at '0' on both
Capacitors.

It is easy enough to change them to point wherever you want, just by
loosening the grub screw on the knob, and re-tighten on the place you
want it to point.

I too bought mine off Ebay (UK), for appx 170 US Dollars, and have
converted mine to have an internal dummy load inside, when you switch to
'Dummy Load' - the pictures and details are on my web site at
[url]http://www.john4music.tv/27.html[/url]

Kind regards,

John (another one !!) G3OBU

www.John4Music.TV
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--- In TS-520_820_530_830@yahoogroups.com, "oz1hyi" <oz1hyi@...> wrote:
>
>
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> --- In TS-520_820_530_830@yahoogroups.com, "hetherington.john"
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> > from ebay and happened to notice the following while I had the top
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possition.
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> I have a external homebrew SWR meter inline between the tx and the AT
350, and never used the built-in awr, so I know not the answer on your
"translation" quwstion
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> Vy de OZ1HYI Willy.. Also 5P1W..
>

23762. Re: KENWOOD AT-230 TUNER QUESTION

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-04 16:11:02 UTC
From: Music Maker
Topic: 16121 Message: 23762

.
.
Hello John,

I have just opened up my AT 230 to look for you.

Fully Closed (Rotor Blades level with Stators) - are at '0' on both
Capacitors.

It is easy enough to change them to point wherever you want, just by
loosening the grub screw on the knob, and re-tighten on the place you
want it to point.

I too bought mine off Ebay (UK), for appx 170 US Dollars, and have
converted mine to have an internal dummy load inside, when you switch to
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Kind regards,

John (another one !!) G3OBU

www.John4Music.TV
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--- In TS-520_820_530_830@yahoogroups.com, "oz1hyi" <oz1hyi@...> wrote:
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23763. Re: [TS-520_820_530_830] Re: Antenna Designs / Problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-04 16:31:03 UTC
From: Charlie Swenson
Topic: 23746 Message: 23763

The Mystery Antenna you can build for less than the Grandkids presents cost nowadays. check it out here: http://www.dxzone.com/cgi-bin/dir/jump2.cgi?ID=13121 even in a limited space you can get on the air.
Charlie - NØERE
Not exactly Nowhere
Just North Dakota
That's Close

----- Original Message -----
From: Music Maker
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, December 04, 2009 7:01 AM
Subject: [TS-520_820_530_830] Re: Antenna Designs / Problems

.
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Hello, and thank you for the quick response to my antenna problem.

I had already looked at the TAK-tenna, and that would cost a lot less, but is still expensive in UK at about 150 US Dollars - I think I may get one of these at a later point, after I have paid for my Grandchildrens Christmas 'Prezzies' !! - I really need something quick and cheap for 'now'.

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OR !!!

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(50 Ohms) required at the feedpoint.

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[url]http://www.hams4u.com/kc0pet/9_1%20unun.htm[/url]

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From the 'old days' when I first came into Amateur Radio (I was licenced in 1956 - Geez, that was over 50 years ago!!), when we used to experiment with everything, building our own receivers and Transmitters, etc. Today, with the advances to solid state high efficiency Transceivers, which are almost untouchable - the Antenna system is about all that is left to experiment (or mess!) with, unless of course, a person is of a very high technical (or genius) standard.

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Further comments and discussion would be appreciated, by you much more 'savvy' guys in the Group than myself , and I am sure we can all learn something new!! (Thats Amateur Radio!).

Kind thoughts and regards,

John G3OBU

www.John4Music.TV
.
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--- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@...> wrote:
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> > Kind thoughts and 73's de G3OBU
> >
> > John
> >
> > www.John4Music.TV

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23764. Re: [TS-520_820_530_830] Re: Antenna Designs / Problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-04 17:33:27 UTC
From: John Davidson
Topic: 23746 Message: 23764

Wire is not too expensive, we should build our own antennas.
 I put up a 160M dipole for less than the shipping cost of most factory built antennas !!!

--- On Fri, 12/4/09, Charlie Swenson <littlepaper@bis.midco.net> wrote:

From: Charlie Swenson <littlepaper@...>
Subject: Re: [TS-520_820_530_830] Re: Antenna Designs / Problems
To: TS-520_820_530_830@yahoogroups.com
Date: Friday, December 4, 2009, 11:31 AM

The Mystery Antenna you can build for less than the Grandkids presents cost nowadays. check it out here: http://www.dxzone. com/cgi-bin/ dir/jump2. cgi?ID=13121 even in a limited space you can get on the air.
Charlie - NØERE
Not exactly Nowhere
Just North Dakota
That's Close

----- Original Message -----
From: Music Maker
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Friday, December 04, 2009 7:01 AM
Subject: [TS-520_820_ 530_830] Re: Antenna Designs / Problems

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The suggested 'Hustler' antenna is sadly just as expensive as the Butternut or Diamond antennas here in UK at over 300 dollars. Far too expensive for my limited funds!

[url]http://www.hamradio .co.uk/acatalog/ Ant_Amateur_ BHF_Vert_ Hustler.htm\
l[/url]

I have done a lot of reading on the internet and have come (rightly or wrongly! HI) to the following conclusions ....

All metal objects have a resonant frequency, from a cuff-link to a long length of wire (we all know the formula!). Ideally, for antenna construction, an antenna should be a multiple or divider of the resonant

full wave length of the frequency we wish to use. Anything other than this has to be a compromise. This can be overcome by using coils in the antenna length, which will reduce the physical length required, and other capacative, inductive or resistive combinations to achieve this resonant length to 'appear' at the feed point.

OR !!!

You can use an UNUN (Unbalanced to Unbalanced transformer) , which is NOT a Balun (Balanced to Unbalanced) to produce the required RF impedance (50 Ohms) required at the feedpoint.

A 9:1 UNUN Transformer, will provide an unbalanced 50 Ohm feed point, to almost any length of wire or metal. which may or may not be resonant at the frequencies required.

This does not say that the random size antenna will be as efficient as a properly tuned length, but it does ensure that the random length presents a proper match to the Rx / Tx of between 25 and 90 Ohms, which can be converted to the required 50 Ohms by the use of an Antenna Tuning Unit.

My current thinking is that a ready made (and very cheap!) CB vertical 5/8 wave (6.6 Metre length) antenna would make an ideal and tidy solution to my problems, with a 9:1 UNUN at its base, or perhaps, better still, a longer 'Carbon Fibre Fishing rod', with wire for the antenna inside it, would give a longer than 18ft length of the CB Antenna, surely a longer antenna length would increase its efficiency, even if not resonant?

Please read the following on the 9:1 UnUn ....

Professional ...
[url]http://www.snowdoni a-radio-company. co.uk/unun- transformers. html[/ur\
l]

Amateur ......
[url]http://www.hams4u. com/kc0pet/ 9_1%20unun. htm[/url]

[url]http://www.bobsamer ica.com/9- 1balun.html[/url]

From the 'old days' when I first came into Amateur Radio (I was licenced in 1956 - Geez, that was over 50 years ago!!), when we used to experiment with everything, building our own receivers and Transmitters, etc. Today, with the advances to solid state high efficiency Transceivers, which are almost untouchable - the Antenna system is about all that is left to experiment (or mess!) with, unless of course, a person is of a very high technical (or genius) standard.

In those 'old days' - the antenna was everything, and I worked well over 100 countries CW with my first Transmitter - a single valve (6v6) 'homebrew' with all of 2 watts !! Sadly, I now have no space for the Aerial Farm I had in those days, and the limited 15ft X 15ft space I

have now, in the centre of a large city, needs some serious
experimentation!

Further comments and discussion would be appreciated, by you much more
'savvy' guys in the Group than myself , and I am sure we can all learn
something new!! (Thats Amateur Radio!).

Kind thoughts and regards,

John G3OBU

www.John4Music. TV
.
.

--- In TS-520_820_530_ 830@yahoogroups. com, martin <kb0hae@...> wrote:
>
> Hi John. I would be very Leary of that commercial antenna. At 21, it
> will be resonant somewhere between 12M and 15M (as a half wave). And
> This is the first time that I have heard of a 9:1 balun being used on
> an Amateur Radio transmitting antenna. And while most vertical
> antennas will work (sort of) without radials, they work far far
> better with them! Even a single radial for each band (that would
> actually be a counterpoise) is going to help the performance of the
> antenna. I have doubts about the CB antenna also.
>
> Something that you might consider is a Hustlet 5BTV. They are not
> nearly as expensive as the others that you mention. It is a 5 band
> trap vertical They are very well made, although you may want to
> replace the nuts. bolts and screws with stainless steel or brass ones.
> The 5BVT can be ground mounted or mounted on a mast. When mast
> mounted, elevated radials are recommended. The elevated radials do
> not have to be in a strait line, they could be bent however you need.
>
> Just my thoughts...
>
> Music Maker wrote:
> > .
> > .
> > .
> > Hello All,
> >
> > As most know, I am just re-starting my Amateur Radio hobby after an
> > absence of about 30 years. I am severely restricted by finances
(I am
> > a 74 year old State Pensioner!), but for the problems I have, even
more
> > restricted!
> >
> > I now have a 'basic' rig set up, with the TS 520SE, AT230, SP23,
HiMound

> > HX 703, and MC50. I have been buying it in slowly over the last
few
> > weeks off Ebay.
> >
> > Last item, I need now, is a half-decent Antenna.
> >
> > I am in the middle of a large city, with absolutely no garden, just
a
> > small concrete slabbed, back yard about 15 feet long, with a 5ft
high
> > brick wall round it. I am in the middle of a row of 'town
houses'.
> >
> > I have been reading a lot on 'verticals' (my only option), but even
> > second user 'Butternuts' , or Diamonds, etc., are too expensive,
also
> > there is no room for ground plane radials. A real problem!
> >
> > What I am looking at now, is to buy a new 6.6 metre CB 5/8 vertical
> > antenna, and to feed it with an UNUN 9:1 Magnetic (Balun) Coupler.
> > Total cost with all new, about 40 of your US Dollars!
> >
> > I would mount this on a 9ft Steel pole (to get the RF away from Dogs
and
> > children!), with a copper earth rod driven into the ground
immediately
> > under it and earthing the outer of my coax there, (from the balun)
at
> > the farthest corner of the back yard wall.
> >
> > I am then thinking of another copper Earth Rod driven into the
ground
> > under my living room window 15 ft away from the antenna to earth my
rig
> > from in the house, as well as another earth to a clamp on my water
pipe,
> > under the kitchen sink (where the Mains electricity is also
earthed).
> >
> > Sorry to 'ramble on' but I wanted to explain my plans in detail, to
get
> > evaluations of my thinking / ideas, for members to come up with
better
> > suggestions / ideas, to get me the most 'Bang per Buck!'
> >
> > There is a 'commercial' vertical here on sale on Ebay, which I think
is
> > possibly exactly what I am thinking of doing. It is about 75 US
> > Dollars.
> >

> >
http://cgi.ebay. co.uk/ws/ eBayISAPI. dll?ViewItem& item=30036395155 1&ssPage\
\
> > Name=STRK:MEWAX: IT
> >
> > Another idea I had was to use a hollow fishing pole about 9 or 10
Metres
> > long, standing in a glass or plastic jar on the ground, with the 9:1
> > balun inside it the jar (and sealed), and to use a length of co-ax
> > inside the whole length of the pole, using just the outer (or short
> > inner and outer at each end?). It could start at ground level, as
the
> > tube would insulate the radiator, and also the connection from the
Balun
> > and feed coax outer would only be a few inches to the Earth Rod.
> >
> > Any comments or suggestions are very welcome, before I start on this
> > project,. and make a mess of it!.
> >
> > Kind thoughts and 73's de G3OBU
> >
> > John
> >
> > www.John4Music. TV

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23765. Re: [TS-520_820_530_830] Re: Antenna Designs / Problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-04 17:32:04 UTC
From: richard
Topic: 23746 Message: 23765

O< big snip>

As your in the UK, do you remember a company down on the south coast,
used to advertise in Practical wireless, G W Radio or something like
that.He at one time had a large stock of stainless steel guided missile
wire, thin and very strong.
How about that and a weather balloon, they appear on the surplus market
as well from time to time.
If your QTH is reasonably sheltered you could get a quarter wave
vertical up for most bands. Its not a permanent structure so no
planning problems either. and cheap as well.

--
Best wishes

Richard Bown

##
Registered Linux User 36561
OS: Mandriva 2010.0 Powerpack on an AMD Dual Athlon 64 +4400: 8 GB RAM
DDR2 Ham Call: G8JVM , QRA IO82SP, Interests Microwave 1.3 GHz,2.3 GHz
& 5.7GHz & 10 GHz
##

23766. Re: [TS-520_820_530_830] Antenna Designs / Problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-04 18:05:57 UTC
From: Geoff Hegarty
Topic: 23746 Message: 23766

Hi John
Your mention of a 9m fishing pole reminded me of this. Sounds like what you're looking for.
http://www.perite.com/vk7jj/squidpoles.htm
(Don't miss page 2 of the site)
I have no personal experience of this design, but have heard generally good reports of it.
There are also other homebrew vertical designs on the web.
Good luck with it
Geoff VK2HQA

--- On Fri, 4/12/09, Music Maker <jhaddleton@...> wrote:

From: Music Maker <jhaddleton@...>
Subject: [TS-520_820_530_830] Antenna Designs / Problems
To: TS-520_820_530_830@yahoogroups.com
Received: Friday, 4 December, 2009, 5:57 AM

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Hello All,

As most know, I am just re-starting my Amateur Radio hobby after an

absence of about 30 years. I am severely restricted by finances (I am

a 74 year old State Pensioner!), but for the problems I have, even more

restricted!

I now have a 'basic' rig set up, with the TS 520SE, AT230, SP23, HiMound

HX 703, and MC50. I have been buying it in slowly over the last few

weeks off Ebay.

Last item, I need now, is a half-decent Antenna.

_____
See what's on at the movies in your area. Find out now:
http://au.movies.yahoo.com/session-times/

[Non-text portions of this message have been removed]

23767. Re: [TS-520_820_530_830] Re: 520se transmitting???

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-04 20:03:47 UTC
From: Dave ve3wej
Topic: 23687 Message: 23767

it may just be " turn down the gain" on the mike. you might be overdriving
the audio

----- Original Message -----
From: "fjwheeler3" <fjwheeler3@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, December 04, 2009 7:04 AM
Subject: [TS-520_820_530_830] Re: 520se transmitting???

>
> Hi
> Thanks for your response
> I have built a 50 ohm dummy load and tuned
> as per instructions.It tunes fine. I checked swr with meter
> And it reads 1.1 with dummy load and antenna
> hooked up. Power is 100 watts.
> Astatic mic has amplifier at base.
> I tried making a contact and they came back
> saying it was distorted.So it appears I have a
> Microphone problem
> I wlll try to build an amplifier with hi output
> impedance
> Any suggestions?
> KB1TCY
> --- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@...> wrote:
>>
>> Hi Fred. First of all, you need a dummy load to tune up into. If by
>> IP you mean the bias current, it should be 60MA not 70. The RF meter
>> in the radio is NOT measuring watts, it is a relative reading. What
>> do you mean by "uv reads a solid 300"?
>>
>> First follow the instructions in the manual for setting the bias
>> current. Is the D-104 amplified? Whether it is or not, it may not be
>> wired correctly internally to work with your radio. If it is one of
>> the D-104 mics sold for CB use, it is probably amplified, and low
>> impedance. Your radio requires a high impedance mic. The PTT and mic
>> shield must be separate for it to work correctly. The same goes for
>> pretty much any CB mic. The CB mic is probably a low impedance mic,
>> and your radio requires a high impedance mic.
>>
>> As stated in the manual, the radio should only be operated into a
>> dummy load, or an antenna with an SWR of 2:1 or less. If you do not
>> have the manual, it can be downloaded from a nimber of places on the
>> internet.
>>

>> TTYL
>>
>>
>>
>> fjwheeler3 wrote:
>> > hi
>> > I need the wisdom of the group.
>> > I have a :520se into a 20 meter dipole 20ft high .
>> > I followed the tuning procedure in the manual and the one
>> > suggested on the list.
>> > I can hear stations but can't work them
>> > when I transmit the processor is pulled out ,meter onalc and needle
>> > moves within the alc markings.
>> > ip is at 70 ma
>> > when talking in mic rf meter reads 50-100
>> > uv reads a solid 300
>> > What I think;
>> > swr is not correct.I bought a meter. on eBay and expect to
>> > test in a few days.
>> > I guessed that dipole cut to length with 40ft rg58 would be close
>> > mic is distorted.
>> > it is an astatic d104 bought at hamfest
>> > It was missing connector so I wired it as per
>> > manual. if alc is in range I must be inputting
>> > something.
>> > I have an old cb mike. can that be used if wired properly?
>> > any help appreciated
>> > Fred
>> > kb1tcy
>> >
>> >
>> >
>> >
>> >
>>
>> --
>> CUL8R
>>
>> KBOHAE kb0hae@... Martin Campbell
>>
>> A Satisfied Sidux Linux user! To get Sidux go to:
>> www.sidux.com/index.html
>> "Protect your digital freedom and privacy, eliminate DRM, learn more
>> at http://www.defectivebydesign.org/what_is_drm"
>>
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> Yahoo! Groups Links
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23768. Needed

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-04 20:13:15 UTC
From: Allan C
Topic: 23768 Message: 23768

Pardon me for this post but I have been looking every where for the manual and any other papers that came with a Palomar FC-40 Freq. Counter when it was new manual instruction etc., will pay $20. dollars for copies or original. Just thought someone here might have filed away.

73 & God Bless Everyone

[Non-text portions of this message have been removed]

23769. Re: [TS-520_820_530_830] Needed

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-04 20:24:52 UTC
From: Dave ve3wej
Topic: 23768 Message: 23769

http://www.cbtricks.com/miscellaneous/equipment/palomar/fc_40/index.htm

and page 17 of
http://www.hardtimez99.com/SECRETCB29/bookz/SECRET_CB_VOLUME_25.pdf

schematics at least google searched

----- Original Message -----
From: "Allan C" <a1mc@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, December 04, 2009 3:13 PM
Subject: [TS-520_820_530_830] Needed

>
> Pardon me for this post but I have been looking every where for the
> manual and any other papers that came with a Palomar FC-40 Freq. Counter
> when it was new manual instruction etc., will pay $20. dollars for
> copies or original. Just thought someone here might have filed away.
>
> 73 & God Bless Everyone
>
>
>
> [Non-text portions of this message have been removed]
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> ------------------------------------
>
> Yahoo! Groups Links
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>

23770. Re: KENWOOD AT-230 TUNER QUESTION

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-04 20:28:47 UTC
From: John Hetherington
Topic: 16121 Message: 23770

I believe there is some serious confusion afoot??? The following is the question I just posted......the other question regarding the position of the capacitor plates was posted in January 2008!!!

Greetings Group, I find I am in need of a replacement 'R' Tune variable capacitor to replace the damaged one in my tuner. I called Kenwood and 'Leo' advised there are none available in North America or Japan.

Any assistance locating a good replacement variable cap either new or reclaimed
or any suggestions to effectively repair the broken shaft would be most welcome
and greatly appreciated. Email direct to: jd.hetherington(@)hotmail.com

73 John
VE3IZM

[Non-text portions of this message have been removed]

23771. Re: [TS-520_820_530_830] Antenna Designs / Problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-04 21:10:26 UTC
From: Steve
Topic: 23746 Message: 23771

John,

I believe you mentioned in your original message that you had an antenna tuner. If so, a random end fed wire will get you out quite nicely. I worked much DX for a number of years with 100 W and an insulated #12 wire that exited my window, went up the side of my house, over the top of my roof and the end was tied off to my back fence. Total length about 80 feet.

Steve W4IMF

Certified Virus Free
Checked by AVG - www.avg.com
Version: 9.0.709 / Virus Database: 270.14.93/2544 - Release Date: 12/04/09 02:32:00

[Non-text portions of this message have been removed]

23772. WTB - Kenwood MC-10 and/or MC-35s Hi Z HAND MICROPHONE(s) for my TS-520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-05 00:01:50 UTC
From: Howard Weinstein
Topic: 23746 Message: 23772

Gang,

I would like to procure a Kenwood MC-10 and/or a Kenwood MC-35s Hi Z Hand Microphone for my TS-520s Mobile Station.

Please contact me with condition and price - can pay with personal check, USPS Money Order, or PayPal.

Tnx es 72/73 de Howie K3HW

[Non-text portions of this message have been removed]

23773. RE: [TS-520_820_530_830] Antenna Designs / Problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-05 11:20:33 UTC
From: Sulaiman Abdullah
Topic: 23746 Message: 23773

Your first problem may be your neighbors,

a good bit of advice that I used is to erect your antenna(s) and NOT transmit for about one month - this will protect you from any awkward neighbors that will blame you for anything!

Since you are considering CW and your neighbors are in the near-field there is a high probability of interference with neighbors equipment so the end of the back garden - farthest from all neighbors - may be the best choice, and you can use the wall as a support.

If like me you are lucky and have nice neighbors you could consider a feeder to the rear wall and a dipole running left and right along the wall as far as neighbors permit. This would be a reasonably good NVIS antenna. It could also be used as radials for a vertical.

I have a 7m and a 9m fiberglass fishing pole in my back garden as supports for my 20m resonant dipole, they have been up for a few years now with no problems, so I can recommend fishing poles.

I am considering converting the 9m pole into a helical/squid/rubber-ducky vertical but haven't tried yet, I'll post here if/when I try.

You may have just enough space for a 10m resonant dipole sloping from the top of your building to the rear wall.

That's all that comes to mind for the moment ... good luck and 73's 2E0YAH

To: TS-520_820_530_830@yahoogroups.com
From: jhaddleton@...
Date: Thu, 3 Dec 2009 18:57:05 +0000
Subject: [TS-520_820_530_830] Antenna Designs / Problems

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.

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Hello All,

As most know, I am just re-starting my Amateur Radio hobby after an

absence of about 30 years. I am severely restricted by finances (I am

a 74 year old State Pensioner!), but for the problems I have, even more

restricted!

I now have a 'basic' rig set up, with the TS 520SE, AT230, SP23, HiMound HX 703, and MC50. I have been buying it in slowly over the last few weeks off Ebay.

Last item, I need now, is a half-decent Antenna.

I am in the middle of a large city, with absolutely no garden, just a small concrete slabbed, back yard about 15 feet long, with a 5ft high brick wall round it. I am in the middle of a row of 'town houses'.

I have been reading a lot on 'verticals' (my only option), but even second user 'Butternuts', or Diamonds, etc., are too expensive, also there is no room for ground plane radials. A real problem!

What I am looking at now, is to buy a new 6.6 metre CB 5/8 vertical antenna, and to feed it with an UNUN 9:1 Magnetic (Balun) Coupler.

Total cost with all new, about 40 of your US Dollars!

I would mount this on a 9ft Steel pole (to get the RF away from Dogs and children!), with a copper earth rod driven into the ground immediately under it and earthing the outer of my coax there, (from the balun) at the farthest corner of the back yard wall.

I am then thinking of another copper Earth Rod driven into the ground under my living room window 15 ft away from the antenna to earth my rig from in the house, as well as another earth to a clamp on my water pipe, under the kitchen sink (where the Mains electricity is also earthed).

Sorry to 'ramble on' but I wanted to explain my plans in detail, to get evaluations of my thinking / ideas, for members to come up with better suggestions / ideas, to get me the most 'Bang per Buck!'

There is a 'commercial' vertical here on sale on Ebay, which I think is possibly exactly what I am thinking of doing. It is about 75 US Dollars.

http://cgi.ebay.co.uk/ws/eBayISAPI.dll?ViewItem&item=300363951551&ssPage\
Name=STRK:MEWAX:IT

Another idea I had was to use a hollow fishing pole about 9 or 10 Metres long, standing in a glass or plastic jar on the ground, with the 9:1 balun inside it the jar (and sealed), and to use a length of co-ax inside the whole length of the pole, using just the outer (or short inner and outer at each end?). It could start at ground level, as the tube would insulate the radiator, and also the connection from the Balun and feed coax outer would only be a few inches to the Earth Rod.

Any comments or suggestions are very welcome, before I start on this project,. and make a mess of it!.

Kind thoughts and 73's de G3OBU

John

www.John4Music.TV

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Have more than one Hotmail account? Link them together to easily access both
http://clk.atdmt.com/UKM/go/186394591/direct/01/

[Non-text portions of this message have been removed]

23774. RE: [TS-520_820_530_830] Antenna Designs / Problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-05 11:39:23 UTC
From: Adrian Ellison
Topic: 23746 Message: 23774

If your budget will run to it, I've found that the best way to deal with neighbours in these situations is to say nothing about what you're planning to do, just buy them a nice holiday somewhere.

They might not like what they see when they get back, but they'll feel awkward about saying anything after such a nice treat :-)

Adrian - ZS1TTZ

On Saturday 05 December 2009 13:20:33 Sulaiman Abdullah wrote:
>
> Your first problem may be your neighbors,
>

23775. ts-520 Fan

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-05 12:33:12 UTC
From: Stephen Judd
Topic: 23775 Message: 23775

If anyone has a Fan avalible I am in need of one mine quite any help will be appriciated 73 happy season
 Stephen/KB7BGS

[Non-text portions of this message have been removed]

23776. Re: [TS-520_820_530_830] Antenna Designs / Problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-05 20:16:42 UTC
From: martin
Topic: 23746 Message: 23776

Hi Guys. If john has to worry about his neighbors, a stealth antenna may be best. A vertical antenna could be placed inside some PVC and disguised as a flagpole or as a support for a bird feeder etc... Wire is also very stealthy. In my experience, most people seldom look upwards without a reason to do so. Also, small guage wire # 20 or #22) is small enough that it is hard to see more than a few feet away unless the light is just right. I am sure that anyone interested in stealth antennas can find plenty of ideas with a little searching on the net.

TTYL

Sulaiman Abdullah wrote:
> Your first problem may be your neighbors,
>
> a good bit of advice that I used is to erect your antenna(s) and NOT
> transmit for about one month - this will protect you from any awkward
> neighbors that will blame you for anything!

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

23777. Re: Needed

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-05 20:59:45 UTC
From: Allan C
Topic: 23768 Message: 23777

Thanks Dave I found all that and more of the same was hoping to find
someone that had the owners directions and/or manual.

--- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@...>
wrote:
>
>
http://www.cbtricks.com/miscellaneous/equipment/palomar/fc_40/index.htm
>
>
> and page 17 of
> http://www.hardtimez99.com/SECRETCB29/bookz/SECRET_CB_VOLUME_25.pdf
>
>
>
>
> schematics at least google searched
>
> ----- Original Message -----
> From: "Allan C" a1mc@...
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, December 04, 2009 3:13 PM
> Subject: [TS-520_820_530_830] Needed
>
>
> >
> > Pardon me for this post but I have been looking every where for the
> > manual and any other papers that came with a Palomar FC-40 Freq.
Counter
> > when it was new manual instruction etc., will pay $20. dollars for
> > copies or original. Just thought someone here might have filed away.
> >
> > 73 & God Bless Everyone
> >
> >
> >
> > [Non-text portions of this message have been removed]
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> > ------------------------------------
> >
> > Yahoo! Groups Links
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23778. G3OBU needs an antenna

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-05 21:29:21 UTC
From: Rich Jones
Topic: 23778 Message: 23778

Jonh: The ebay vertical looks pretty good for the price. I however doubt it will hear very well on the low bands compared to a some what resonant wire dipole. Again, you have a very small footprint for your back yard and it may be your only solution for now. I bought a TakTenna and sold it last summer to a ham for $30.00 US. I did not hear very well compared to wire and was an experiment that cost more than it was worth. Others may have good luck with it but compared it to others and it was a big looser. Save your money. I wonder if you have looked into a 4 square wire antenna? Four poles and wire 15 foot on each side of the four square. Kinda like a vertical single element quad antenna. You will have to load it with your antenna tuner but it might be a good simple low coast antenna to start with. I am sure it will hear better at the low freq's than the vertical. Just my 2 cents worth. Good luck Rich K8UV

[Non-text portions of this message have been removed]

23779. Fan

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-05 22:52:22 UTC
From: Stephen Judd
Topic: 23779 Message: 23779

I am in need of a Fan for a ts-520 can anyone help thanks
 Stephen/KB7BGS

[Non-text portions of this message have been removed]

23780. Re: Fan

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-06 01:53:34 UTC
From: Music Maker
Topic: 23779 Message: 23780

.
.
.
Hello Stephen,

I have just checked US Ebay & UK Ebay, and the same 3 TS520 Fans are advertised both in the US and UK.

The cheapest one is 25 US Dollars, and from the text, it would appear they are new. Postage UK to US Airmail takes about 3 days, and I guess it would be about 15 dollars.

Have a look here - I know the seller, or at least I have bought gear off him and he is A1
'''

http://cgi.ebay.com/Trio-Kenwood-TS-520-fan_W0QQitemZ370156659211QQcmdZViewItemQQptZUK_ConsumerElectronics_SpecialistRadioEquipment_SM?hash=item562f0e620b

Good Luck,

John G3OBU
.
.
.

--- In TS-520_820_530_830@yahoogroups.com, Stephen Judd <swanradios@...> wrote:
>
> I am in need of a Fan for a ts-520 can anyone help thanks
> ï¿½Stephen/KB7BGS
>
>
>
>
> [Non-text portions of this message have been removed]
>

23781. My Antenna Problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-06 02:11:33 UTC
From: Music Maker
Topic: 23781 Message: 23781

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.
.
Hi Everyone,

May I thank the many who responded to my distress call. I have taken much of the info on board, but in the end have decided to go my own 'experimental' way.

I have ordered from Ebay, a new 7 Metre Fibreglass pole. This will be strapped to my clothes-line post in the back yard. I am going to drill a hole in it about 12" from the ground, and will have a 7 metre length of #16 Earth wire inserted through this hole, to the tip of the pole. This will be the antenna. The bottom end I will be attaching to a 9:1 UnUn (it comes sealed in a box). The inner of the coax feed line will be attached to the antenna wire, and the outer to a copper earth spike at the base. I am then making an RF Choke (10 ft of the coax coiled 7 times round), and into the house a run of about 20 feet, to connect to my Unbalanced 50 Ohm connection socket on the Kenwood AT 230 Tuner.

I will let you all know the results, and pics when it is finished (about a week, as have only just ordered all the bits on Ebay). Total Cost 38 Pounds (Appx 50 dollars).

Thanks everyone for your advice and opinions. I will not be using 160 or 80 Metre bands other than listen, BTW. I usually do Dits and Dahs on 40, and SSB on 20.

John G3OBU

http://www.John4Music.TV

23782. Re: [TS-520_820_530_830] Re: Fan

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-06 14:45:24 UTC
From: Stephen Judd
Topic: 23779 Message: 23782

thank you very much for the help I will watch this auction hopefully I wont have to pay to much but again thanks
 Stephen/KB7BGS

_____
From: Music Maker <jhaddleton@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sat, December 5, 2009 6:53:34 PM
Subject: [TS-520_820_530_830] Re: Fan

.
.
.
Hello Stephen,

I have just checked US Ebay & UK Ebay, and the same 3 TS520 Fans are advertised both in the US and UK.

The cheapest one is 25 US Dollars, and from the text, it would appear they are new. Postage UK to US Airmail takes about 3 days, and I guess it would be about 15 dollars.

Have a look here - I know the seller, or at least I have bought gear off him and he is A1
'''

http://cgi.ebay. com/Trio- Kenwood-TS- 520-fan_W0QQitem Z370156659211QQc mdZViewItemQQptZ UK_ConsumerElect ronics_Specialis tRadioEquipment_ SM?hash=item562f 0e620b

Good Luck,

John G3OBU
.
.
.

--- In TS-520_820_530_ 830@yahoogroups. com, Stephen Judd <swanradios@ ...> wrote:
>
> I am in need of a Fan for a ts-520 can anyone help thanks
> ï¿½Stephen/KB7BGS
>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

23783. TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-06 15:09:13 UTC
From: k4mau
Topic: 23783 Message: 23783

Hello to the group
I'm new hear and am looking forward to learning about these wonderful radios. My current station is a FT-1000MP MK V Field, and AL80B. Just some back ground on me. I've had this station set up for 7 years or so.
I just got a TS-820S a few days ago. I was aware of the problems from the start so it's a project rig.
Here are the prblems. In TUN, CW and FSK mode switched to send it shows 60 ma but no carrier output, and the display on the lower bands reads 9.000. On the higher bands in TUN, CW or FSK , and switched to send the display goes to 19.000 with 60ma and no output. I can tune up the final in USB and LSB by transmitting a modulated to into the mic. I get 100+ watts out, and have had it on hte air in SSB no problems. I just don't like tuning it up like this.
Also on 80 meters it will only go up to 3.953. The VFO can still be turned on higher, but it not changing frequency. I works fine on all other bands.
Any suggestions and help is appreciated.
Thanks to all.
Rob K4MAU

23784. 830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-06 09:55:41 UTC
From: Victor
Topic: 23784 Message: 23784

Hi all
I'm new to group and immediately have a problem.
Recently acquired a TS830S and through my stupidity immediately manufactured a fault.
End result is this:-
The digital readout doesn't work.
If I am on 20m the digital readout shows 13.500.0 and stays there even though the Rx still tunes across the band. Not only that but if I change bands to 40m the readout still shows 13.500.0. But if I switch off and then back on the readout now shows 6.500.0 but again doesn't move and so on and so on.
Also the top relay chatters when I switch from CW to SSb.
Now my stupidity. I had tuned the rig (at this point working OK) with the meter in IC position - tuned for dip. I then moved the meter to RF and was disturbed. Returning a short while later I forgot I had moved the meter to RF and spent quite a long while trying to dip it!! After that the display packed in functioning correctly.
It tunes OK using the analogue so I guess the VFO board is OK. I think that leaves me with the PLL and counter board.
I haven't a clue where to start so can anyone help, please.
Vic Waddington
G4JSS
(First class donkey)

23785. Re: 830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-06 19:02:34 UTC
From: w5rkl
Topic: 23784 Message: 23785

Victor,

Try removing all of the plugs, one at a time, giving each plug a light shot of contact cleaner. Insert the plug a few times then use canned air to remove any excess contact cleaner. Do this to each plug on the COUNTER unit. Once completed, visually inspect each plug to ensure it is properly seated and, when necessary, use canned air to remove all remain evidence of contact cleaner. Wait 3 to 5 minutes then test for proper operation.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Victor" <g4jss@...> wrote:
>
> Hi all
> I'm new to group and immediately have a problem.
> Recently acquired a TS830S and through my stupidity immediately manufactured a fault.
> End result is this:-
> The digital readout doesn't work.
> If I am on 20m the digital readout shows 13.500.0 and stays there even though the Rx still tunes across the band. Not only that but if I change bands to 40m the readout still shows 13.500.0. But if I switch off and then back on the readout now shows 6.500.0 but again doesn't move and so on and so on.
> Also the top relay chatters when I switch from CW to SSb.
> Now my stupidity. I had tuned the rig (at this point working OK) with the meter in IC position - tuned for dip. I then moved the meter to RF and was disturbed. Returning a short while later I forgot I had moved the meter to RF and spent quite a long while trying to dip it!! After that the display packed in functioning correctly.
> It tunes OK using the analogue so I guess the VFO board is OK. I think that leaves me with the PLL and counter board.
> I haven't a clue where to start so can anyone help, please.
> Vic Waddington
> G4JSS
> (First class donkey)
>

23786. Re: [TS-520_820_530_830] TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-06 19:15:19 UTC
From: Dave & Loraine
Topic: 23783 Message: 23786

Hi Rob,
Forget the display problem for now. It doesn't control frequency. Use the dial to control freq.

After 'tuning', turn the CAR to max and report the IP in CW mode. (with no key plugged into back)

73 Dave f4eyk

23787. Re: TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-06 19:20:12 UTC
From: w5rkl
Topic: 23783 Message: 23787

Rob,

Since you didn't say whether or not you have the 820's operator's manual, you can download it at the following website:

www.n6wk.com/kenwood/

Did you follow the tune up procedures outlined in the 820's operator's manual?

If so what indication do you get with the meter set to ALC, MODE switch set to TUNE, CAR control set to 9 or 10 o'clock, and you adjust the DRIVE control? Does the meter indicate a peak meter reading or does the meter sit at zero?

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "k4mau" <kg4ggx@...> wrote:
>
> Hello to the group
> I'm new hear and am looking forward to learning about these wonderful radios. My current station is a FT-1000MP MK V Field, and AL80B. Just some back ground on me. I've had this station set up for 7 years or so.
> I just got a TS-820S a few days ago. I was aware of the problems from the start so it's a project rig.
> Here are the prblems. In TUN, CW and FSK mode switched to send it shows 60 ma but no carrier output, and the display on the lower bands reads 9.000. On the higher bands in TUN, CW or FSK , and switched to send the display goes to 19.000 with 60ma and no output. I can tune up the final in USB and LSB by transmitting a modulated to into the mic. I get 100+ watts out, and have had it on hte air in SSB no problems. I just don't like tuning it up like this.
> Also on 80 meters it will only go up to 3.953. The VFO can still be turned on higher, but it not changing frequency. I works fine on all other bands.
> Any suggestions and help is appreciated.
> Thanks to all.
> Rob K4MAU
>

23788. VFO-230 For Sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-06 19:29:50 UTC
From: n6wk_skcc3
Topic: 11863 Message: 23788

I am selling a Nice working VFO-230 with Original Cable.
I checked it out and it appears to function great. The only cosmetic thing I see is that there is a small area on the top of the front Bezel where some of the paint has rubbed off.
I can provide pictures if requested.
I am asking $200.00 plus shipping.
If interested, please contact me OFF the list
n6wk at n6wk.com

Thanks,
Gordon
N6WK

23789. Re: [TS-520_820_530_830] Re: 830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-06 19:26:27 UTC
From: g4jss@tiscali.co.uk
Topic: 23784 Message: 23789

OK Mike

Will give that a try.

Vic

PS This is old fashioned England where we still wear woad so I haven't a clue if we have got round to canned air yet. Joking apart I fully understand what you have said and thank you.
Fun games for all the family - http://www.tiscali.co.uk/play

[Non-text portions of this message have been removed]

23790. Re: TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-06 22:01:43 UTC
From: k4mau
Topic: 23783 Message: 23790

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
>
> Rob,
>
> Since you didn't say whether or not you have the 820's operator's manual, you can download it at the following website:
>
> www.n6wk.com/kenwood/
>
> Did you follow the tune up procedures outlined in the 820's operator's manual?
>
> If so what indication do you get with the meter set to ALC, MODE switch set to TUNE, CAR control set to 9 or 10 o'clock, and you adjust the DRIVE control? Does the meter indicate a peak meter reading or does the meter sit at zero?
>
> 73s
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "k4mau" <kg4ggx@> wrote:
> >
> > Hello to the group
> > I'm new hear and am looking forward to learning about these wonderful radios. My current station is a FT-1000MP MK V Field, and AL80B. Just some back ground on me. I've had this station set up for 7 years or so.
> > I just got a TS-820S a few days ago. I was aware of the problems from the start so it's a project rig.
> > Here are the prblems. In TUN, CW and FSK mode switched to send it shows 60 ma but no carrier output, and the display on the lower bands reads 9.000. On the higher bands in TUN, CW or FSK , and switched to send the display goes to 19.000 with 60ma and no output. I can tune up the final in USB and LSB by transmitting a modulated to into the mic. I get 100+ watts out, and have had it on hte air in SSB no problems. I just don't like tuning it up like this.
> > Also on 80 meters it will only go up to 3.953. The VFO can still be turned on higher, but it not changing frequency. I works fine on all other bands.
> > Any suggestions and help is appreciated.
> > Thanks to all.
> > Rob K4MAU
> >
>

Hi
Boy you guys reply fast. Thanks! I hope I'm replying correctly.

Yes, I have down loaded the operators manual. Attempting to tune by the manual in TUN mode it will only show 60 ma idle current. It will not do anything else at all. No ALC, RF or give anything out to an external watt meter. CW AND FSK is the same way. It seems there is no carrier to the final to modulate it to tune up on. Also, when I switch to send in these modes the display will change to 9.000, or 19.000, or 29.000 band relavent. I am suspect of CAR 2 looking at the service manual.
In USB and LSB I can get out put, including readings on ALC, IP, and RF. HV reads 800 to 850. And the display will stay on the frequency it's tune to. I set the drive by peaking on the CAL signal. Then preset the Plate to the indicated band range, and set the Load about 12 oclock. I set the mic gain at 5, drive 12 oclock, key the transmitter and modulate with aaaaaaaahhhhhh,(hi hi), or whistle (on a dummy load of coarse), and dip the plate current. Then switch the meter to RF, and peak the load, and redip etc. Then adjust the mic gain back to and occasional alc peak, and I can easily get 100+ wattas out. I get good on the air reports no problem. If I drive the audio real hard the ip will go to about 220 ma. Under normal talking the ip is around 100 ma.
I would rather tune up using the TUN and CW, but ??? As to the problem on 80 meters,it stops at exactly 3.957. It's on frequency there, but it will not tune any higher. The VFO will continue to be turned but the reciever and transmitter will still be actualy on 3.957. It will tune all other bands up to the high end or the vfo fine. This problem is only related to 75 meters.
Sorry this was so long. There are other bugs that are minor. These , especially the TUN, CW, FSK problems ar what I would like to solve the most. My test equipment is limited, however I would still like to address this at home. With you alls help I feel I can. Thanks very much.
73 Rob

23791. ts520 fan

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-06 23:58:04 UTC
From: Eldon Scott
Topic: 23791 Message: 23791

I got a rig here I am parting out. $25.00 and I will ship you the fan. Let me know. Eldon w0szv

[Non-text portions of this message have been removed]

23792. Re: [TS-520_820_530_830] VFO-230 For Sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-07 00:23:14 UTC
From: Jerry Keller
Topic: 11863 Message: 23792

Hi, Gordon.... would you have any idea where I can get a dual-gate mosfet 3SK41 ?... (Q3 on my TS-520 RF board) I've tried Parts Store, Jameco, Mouser, and Digikey... no luck....
73, Jerry K3BZ

----- Original Message -----
From: "n6wk_skcc3" <n6wk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, December 06, 2009 2:29 PM
Subject: [TS-520_820_530_830] VFO-230 For Sale

>I am selling a Nice working VFO-230 with Original Cable.
> I checked it out and it appears to function great. The only cosmetic thing
> I see is that there is a small area on the top of the front Bezel where
> some of the paint has rubbed off.
> I can provide pictures if requested.
> I am asking $200.00 plus shipping.
> If interested, please contact me OFF the list
> n6wk at n6wk.com
>
> Thanks,
> Gordon
> N6WK
>
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>
> Yahoo! Groups Links
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23793. RE: [TS-520_820_530_830] VFO-230 For Sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-07 00:30:15 UTC
From: Greg Anders
Topic: 11863 Message: 23793

Go to the NTE website and look for the current replacement. Its probably an NTE 454 or an NTE 222. That 3sk41 is thirty year old silicon. There are replacements that are much better. Turst me, I replaced the old mosfets in my 520SE recently with new NTE parts.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jerry Keller
Sent: Sunday, December 06, 2009 4:23 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] VFO-230 For Sale

Hi, Gordon.... would you have any idea where I can get a dual-gate mosfet
3SK41 ?... (Q3 on my TS-520 RF board) I've tried Parts Store, Jameco,
Mouser, and Digikey... no luck....
73, Jerry K3BZ

----- Original Message -----
From: "n6wk_skcc3" <n6wk@...<mailto:n6wk%40n6wk.com>>
To: <TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>>
Sent: Sunday, December 06, 2009 2:29 PM
Subject: [TS-520_820_530_830] VFO-230 For Sale

>I am selling a Nice working VFO-230 with Original Cable.
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> I see is that there is a small area on the top of the front Bezel where
> some of the paint has rubbed off.
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> I am asking $200.00 plus shipping.
> If interested, please contact me OFF the list
> n6wk at n6wk.com
>
> Thanks,
> Gordon
> N6WK
>
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> ------------------------------------
>
> Yahoo! Groups Links
>
>

>

[Non-text portions of this message have been removed]

23794. Re: [TS-520_820_530_830] VFO-230 For Sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-07 01:23:07 UTC
From: n6wk@n6wk.com
Topic: 11863 Message: 23794

Hi Jerry,

Use the NTE-222. I use them all the time and they work
perfectly.
I even keep a few in the drawer since they are used so commonly in these
old hybrids.
They are pretty inexpensive too. If you have problem locating some, let
me know and I can mail whatever you need to you.
73,
Gordon
N6WK

Jerry Keller wrote:
>
>
> Hi, Gordon.... would you have any idea where I can get a dual-gate mosfet
> 3SK41 ?... (Q3 on my TS-520 RF board) I've tried Parts Store, Jameco,
> Mouser, and Digikey... no luck....
> 73, Jerry K3BZ
>
> ----- Original Message -----
> From: "n6wk_skcc3" <n6wk@... <mailto:n6wk%40n6wk.com>>
> To: <TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>>
> Sent: Sunday, December 06, 2009 2:29 PM
> Subject: [TS-520_820_530_830] VFO-230 For Sale
>
> >I am selling a Nice working VFO-230 with Original Cable.
> > I checked it out and it appears to function great. The only cosmetic
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> > I see is that there is a small area on the top of the front Bezel where
> > some of the paint has rubbed off.
> > I can provide pictures if requested.
> > I am asking $200.00 plus shipping.
> > If interested, please contact me OFF the list
> > n6wk at n6wk.com
> >
> > Thanks,
> > Gordon
> > N6WK
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23795. Re: [TS-520_820_530_830] VFO-230 For Sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-07 01:23:58 UTC
From: n6wk@n6wk.com
Topic: 11863 Message: 23795

Good advice Greg !!

73,
Gordon

Greg Anders wrote:
>
>
> Go to the NTE website and look for the current replacement. Its
> probably an NTE 454 or an NTE 222. That 3sk41 is thirty year old
> silicon. There are replacements that are much better. Turst me, I
> replaced the old mosfets in my 520SE recently with new NTE parts.
>
> Greg
> KG6YV
>
> From: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> [mailto:TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of Jerry Keller
> Sent: Sunday, December 06, 2009 4:23 PM
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Subject: Re: [TS-520_820_530_830] VFO-230 For Sale
>
> Hi, Gordon.... would you have any idea where I can get a dual-gate mosfet
> 3SK41 ?... (Q3 on my TS-520 RF board) I've tried Parts Store, Jameco,
> Mouser, and Digikey... no luck....
> 73, Jerry K3BZ
>
> ----- Original Message -----
> From: "n6wk_skcc3" <n6wk@...
> <mailto:n6wk%40n6wk.com><mailto:n6wk%40n6wk.com>>
> To: <TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com><mailto:TS-520_820_530_830%40yahoogroups.co
m>>
> Sent: Sunday, December 06, 2009 2:29 PM
> Subject: [TS-520_820_530_830] VFO-230 For Sale
>
> >I am selling a Nice working VFO-230 with Original Cable.
> > I checked it out and it appears to function great. The only cosmetic
> thing
> > I see is that there is a small area on the top of the front Bezel where
> > some of the paint has rubbed off.
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> > If interested, please contact me OFF the list
> > n6wk at n6wk.com
> >
> > Thanks,
> > Gordon
> > N6WK
> >
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>

23796. Re: [TS-520_820_530_830] VFO-230 For Sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-07 01:02:27 UTC
From: Jerry Keller
Topic: 11863 Message: 23796

NTE says it's an NTE222.... and it's available.... many thanks, Greg.

73, Jerry K3BZ

----- Original Message -----
From: "Greg Anders" <greg.anders@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, December 06, 2009 7:30 PM
Subject: RE: [TS-520_820_530_830] VFO-230 For Sale

> Go to the NTE website and look for the current replacement. Its probably
> an NTE 454 or an NTE 222. That 3sk41 is thirty year old silicon. There
> are replacements that are much better. Turst me, I replaced the old
> mosfets in my 520SE recently with new NTE parts.
>
>
> Greg
> KG6YV
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jerry Keller
> Sent: Sunday, December 06, 2009 4:23 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] VFO-230 For Sale
>
>
>
> Hi, Gordon.... would you have any idea where I can get a dual-gate mosfet
> 3SK41 ?... (Q3 on my TS-520 RF board) I've tried Parts Store, Jameco,
> Mouser, and Digikey... no luck....
> 73, Jerry K3BZ
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> ----- Original Message -----
> From: "n6wk_skcc3" <n6wk@...<mailto:n6wk%40n6wk.com>>
> To:
> <TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>>
> Sent: Sunday, December 06, 2009 2:29 PM
> Subject: [TS-520_820_530_830] VFO-230 For Sale
>
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>> If interested, please contact me OFF the list
>> n6wk at n6wk.com
>>
>> Thanks,
>> Gordon
>> N6WK
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> [Non-text portions of this message have been removed]
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>
> Yahoo! Groups Links
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23797. Re: [TS-520_820_530_830] VFO-230 For Sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-07 03:14:19 UTC
From: Jerry Keller
Topic: 11863 Message: 23797

That's an interesting offer, Gordon, I only need the one at the moment. It's Q3 in my TS-520 RF board, and I think it might be the key to getting adequate drive on 15M and 10M. I've changed the 12BY7 for a new one and have good drive on all bands 20M and below. Checking out the circuits has not been easy for me as all I have is a sig gen, a scope, and a VOM.... and I'm a novice with the scope. In fact, I'm trying to learn how to use it, and this TS-520 is my first attempt at troubleshooting an older rig. I'm thinking that I should rule out Q3 before proceeding. What would the cost be to mail the NTE222 to me? Also, any suggestions you might have would be very welcome.

Many thanks and 73, Jerry K3BZ

----- Original Message -----
From: <n6wk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, December 06, 2009 8:23 PM
Subject: Re: [TS-520_820_530_830] VFO-230 For Sale

> Hi Jerry,
>
> Use the NTE-222. I use them all the time and they work
> perfectly.
> I even keep a few in the drawer since they are used so commonly in these
> old hybrids.
> They are pretty inexpensive too. If you have problem locating some, let
> me know and I can mail whatever you need to you.
> 73,
> Gordon
> N6WK
>
>
>
>
> Jerry Keller wrote:
>>
>>
>> Hi, Gordon.... would you have any idea where I can get a dual-gate mosfet
>> 3SK41 ?... (Q3 on my TS-520 RF board) I've tried Parts Store, Jameco,
>> Mouser, and Digikey... no luck....
>> 73, Jerry K3BZ
>>
>> ----- Original Message -----
>> From: "n6wk_skcc3" <n6wk@... <mailto:n6wk%40n6wk.com>>
>> To: <TS-520_820_530_830@yahoogroups.com
>> <mailto:TS-520_820_530_830%40yahoogroups.com>>

>> Sent: Sunday, December 06, 2009 2:29 PM
>> Subject: [TS-520_820_530_830] VFO-230 For Sale
>>
>> >I am selling a Nice working VFO-230 with Original Cable.
>> > I checked it out and it appears to function great. The only cosmetic
>> thing
>> > I see is that there is a small area on the top of the front Bezel where
>> > some of the paint has rubbed off.
>> > I can provide pictures if requested.
>> > I am asking $200.00 plus shipping.
>> > If interested, please contact me OFF the list
>> > n6wk at n6wk.com
>> >
>> > Thanks,
>> > Gordon
>> > N6WK
>> >
>> >
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>> > ------------------------------------
>> >
>> > Yahoo! Groups Links
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> Yahoo! Groups Links
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23798. Re: [TS-520_820_530_830] 830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-07 07:13:22 UTC
From: k5lcl@sbcglobal.net
Topic: 23784 Message: 23798

The "DH" button isn't "pressed in"/on is it? If it is in, the digital display will drop the MHz number, and show 027.6, instead of 14.027.6. The radio will still tune to other frequencies, but the digital reading will stay the same.
----- Original Message -----
From: Victor
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, December 06, 2009 3:55 AM
Subject: [TS-520_820_530_830] 830S

Hi all
I'm new to group and immediately have a problem.
Recently acquired a TS830S and through my stupidity immediately manufactured a fault.
End result is this:-
The digital readout doesn't work.
If I am on 20m the digital readout shows 13.500.0 and stays there even though the Rx still tunes across the band. Not only that but if I change bands to 40m the readout still shows 13.500.0. But if I switch off and then back on the readout now shows 6.500.0 but again doesn't move and so on and so on.
Also the top relay chatters when I switch from CW to SSb.
Now my stupidity. I had tuned the rig (at this point working OK) with the meter in IC position - tuned for dip. I then moved the meter to RF and was disturbed. Returning a short while later I forgot I had moved the meter to RF and spent quite a long while trying to dip it!! After that the display packed in functioning correctly.
It tunes OK using the analogue so I guess the VFO board is OK. I think that leaves me with the PLL and counter board.
I haven't a clue where to start so can anyone help, please.
Vic Waddington
G4JSS
(First class donkey)

[Non-text portions of this message have been removed]

23799. Re: accessories for TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-07 15:26:41 UTC
From: Al Schichler
Topic: 23744 Message: 23799

I see it was mentioned briefly already, but the VFO-240 works great with the TS-830S, and you can get them for a lot less than a VFO-230. They show up from time to time on eBay, QTH.com, and eham.net. I bought one around a year ago for around $140 or so. They are a perfect match for the TS-530S, but they look good (and work good) with the TS-830S (just a different dial scale).

-Al, WA2AS

23800. Re: accessories for TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-07 16:05:23 UTC
From: Dave W
Topic: 23744 Message: 23800

Hi,
As far as the VFO-240 versus the VFO-230. I believe the VFO-240 has the same vfo assembly in it that the TS-830 has in it which does have a little drift associated with it. The VFO-230 comes as a digital VFO and has no drift associated with it , rock solid. If you just plan on using CW or SSB the 240 is tolerable but if you plan on using any of the digital modes such as RTTY or Packet the 230 is the way to go.

Dave
K8DWW

[Non-text portions of this message have been removed]

23801. Re: Antenna Designs / Problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-07 15:40:42 UTC
From: renopithicus
Topic: 23746 Message: 23801

Would you be open to a homebrew project? If so, I suggest that you consider building a magnetic loop. There are many designs for them on the web. In fact, here are a couple of useful sites:

http://www.magneticloopantenna.com/

http://www.standpipe.com/w2bri/

Properly constructed and tuned, a magnetic loop will outperform any other limited space antenna in my opinion. They do not require a lot of height in order to work well. They don't take up a lot of space. It won't cost too much to build one (if you use copper tubing that will cost some money as will the capacitor. Still, I suspect it would be manageable).

The downside to this antenna is that it has to be retuned every time you change frequency. This is a pain in the behind, but many think the solid performance is worth the aggravation. If you want to get fancy you can build one that is tuned remotely.

You also don't want to be too close to this antenna when you're transmitting. It will radiate like gangbusters and you want to be careful to observe the MPE limits. And you definitely want to put it where no person or pet is going to come into direct contact with it while you're transmitting. Put 100 watts into one of these things and it will generate extremely high voltages and lots of current (on the order of 15 amps). It can kill!

That said, if you're careful with it and have a decent spot for it, it will perform remarkably well.

Steve

--- In TS-520_820_530_830@yahoogroups.com, "Music Maker" <jhaddleton@...> wrote:
>
> .
> .
> .
> Hello All,
>
> As most know, I am just re-starting my Amateur Radio hobby after an
> absence of about 30 years. I am severely restricted by finances (I am
> a 74 year old State Pensioner!), but for the problems I have, even more
> restricted!
>
> I now have a 'basic' rig set up, with the TS 520SE, AT230, SP23, HiMound
> HX 703, and MC50. I have been buying it in slowly over the last few
> weeks off Ebay.
>
> Last item, I need now, is a half-decent Antenna.
>
> I am in the middle of a large city, with absolutely no garden, just a

> small concrete slabbed, back yard about 15 feet long, with a 5ft high
> brick wall round it. I am in the middle of a row of 'town houses'.
>
> I have been reading a lot on 'verticals' (my only option), but even
> second user 'Butternuts', or Diamonds, etc., are too expensive, also
> there is no room for ground plane radials. A real problem!
>
> What I am looking at now, is to buy a new 6.6 metre CB 5/8 vertical
> antenna, and to feed it with an UNUN 9:1 Magnetic (Balun) Coupler.
> Total cost with all new, about 40 of your US Dollars!
>
> I would mount this on a 9ft Steel pole (to get the RF away from Dogs and
> children!), with a copper earth rod driven into the ground immediately
> under it and earthing the outer of my coax there, (from the balun) at
> the farthest corner of the back yard wall.
>
> I am then thinking of another copper Earth Rod driven into the ground
> under my living room window 15 ft away from the antenna to earth my rig
> from in the house, as well as another earth to a clamp on my water pipe,
> under the kitchen sink (where the Mains electricity is also earthed).
>
> Sorry to 'ramble on' but I wanted to explain my plans in detail, to get
> evaluations of my thinking / ideas, for members to come up with better
> suggestions / ideas, to get me the most 'Bang per Buck!'
>
> There is a 'commercial' vertical here on sale on Ebay, which I think is
> possibly exactly what I am thinking of doing. It is about 75 US
> Dollars.
>
> http://cgi.ebay.co.uk/ws/eBayISAPI.dll?ViewItem&item=300363951551&ssPage\
> Name=STRK:MEWAX:IT
>
> Another idea I had was to use a hollow fishing pole about 9 or 10 Metres
> long, standing in a glass or plastic jar on the ground, with the 9:1
> balun inside it the jar (and sealed), and to use a length of co-ax
> inside the whole length of the pole, using just the outer (or short
> inner and outer at each end?). It could start at ground level, as the
> tube would insulate the radiator, and also the connection from the Balun
> and feed coax outer would only be a few inches to the Earth Rod.
>
> Any comments or suggestions are very welcome, before I start on this
> project,. and make a mess of it!.
>
> Kind thoughts and 73's de G3OBU
>
> John
>
> www.John4Music.TV
>
> .

> .
>

23802. Re: [TS-520_820_530_830] 830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-07 19:46:15 UTC
From: g4jss@tiscali.co.uk
Topic: 23784 Message: 23802

Hi

Didn't even know there was a DH button but found it and put it in the out position and hey presto digital readout again.

If you see a deep red glow on the horizon it will be me blushing.

Thanks to all for your help.

Vic

G4JSS
Fun games for all the family - http://www.tiscali.co.uk/play

[Non-text portions of this message have been removed]

23803. Re: [TS-520_820_530_830] My Antenna Problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-07 20:18:56 UTC
From: John Davidson
Topic: 23781 Message: 23803

--- On Sat, 12/5/09, Music Maker <jhaddleton@...> wrote:

From: Music Maker <jhaddleton@...>
Subject: [TS-520_820_530_830] My Antenna Problems
To

.
.
.
Hi Everyone,
You were doing OK until
I have ordered from Ebay, a new 7 Metre Fibreglass pole. This will be
strapped to my clothes-line post in the back yard. I am going to
drill a hole in it about 12" from the ground, and will have a 7 metre
length of #16 Earth wire inserted through this hole, to the tip of the
pole. This will be the antenna. The bottom end I will be
attaching to a 9:1 UnUn (it comes sealed in a box). The inner of the
coax feed line will be attached to the antenna wire, and the outer to a
copper earth spike at the base.I read abiut the 9:1 UnUn ....
The 16 ft wire (if my M fo Ft conversion was correct) vertical will show you a fair match to the 50 ohm line, on 20M, without any tuner at all. Inserting a 9:1 xfmr will totally botch up the match on 20 and probably not help on 40 Meters.,...You will have either 5.5 ohms Z or 450 depending what way you install the UnUN, and thats only on 20M.
To get a good match to the 50 ohm coax on 20 and 40M, you need a trap on the base of the vertical that is transparent on 20 and will have some inductance on 40 to load the antenna enough to get 50 ohms Z.
If you can tune the trap correctly you will need no tuner at the radio end.
good luck
http://www.John4Mus ic.TV

[Non-text portions of this message have been removed]

23804. Re: [TS-520_820_530_830] 830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-07 22:19:22 UTC
From: Gmail - Kevin, Natalia, Stacey & Rochelle
Topic: 23784 Message: 23804

Question,

My TS-830S with the DH button in locks the frequency, Turning the dial stops the display, but the frequency changes as I can hear it sweep.
I still have, in the case of the suggestion below, 14.027.6, does not drop the 14. Is there something else that I am doing wrong?

Kevin, ZL1KFM.

----- Original Message -----
From: k5lcl@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, December 07, 2009 8:13 PM
Subject: Re: [TS-520_820_530_830] 830S

The "DH" button isn't "pressed in"/on is it? If it is in, the digital display will drop the MHz number, and show 027.6, instead of 14.027.6. The radio will still tune to other frequencies, but the digital reading will stay the same.
----- Original Message -----
From: Victor
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, December 06, 2009 3:55 AM
Subject: [TS-520_820_530_830] 830S

Hi all
I'm new to group and immediately have a problem.
Recently acquired a TS830S and through my stupidity immediately manufactured a fault.
End result is this:-
The digital readout doesn't work.
If I am on 20m the digital readout shows 13.500.0 and stays there even though the Rx still tunes across the band. Not only that but if I change bands to 40m the readout still shows 13.500.0. But if I switch off and then back on the readout now shows 6.500.0 but again doesn't move and so on and so on.
Also the top relay chatters when I switch from CW to SSb.
Now my stupidity. I had tuned the rig (at this point working OK) with the meter in IC position - tuned for dip. I then moved the meter to RF and was disturbed. Returning a short while later I forgot I had moved the meter to RF and spent quite a long while trying to dip it!! After that the display packed in functioning correctly.
It tunes OK using the analogue so I guess the VFO board is OK. I think that leaves me with the PLL and counter board.
I haven't a clue where to start so can anyone help, please.
Vic Waddington
G4JSS
(First class donkey)

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23805. Re: [TS-520_820_530_830] 830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-07 22:41:24 UTC
From: n6wk@n6wk.com
Topic: 23784 Message: 23805

Kevin,
The TS-830S I have here of my own Locks the display when I push in the DH switch, but it does NOT drop the 14 when on 14.027 for example.
I have seen other ones that do drop the mhz part off though. I prefer it to keep the complete digital read when I push the DH button in.
I am wondering if this is something that Kenwood changed from early to late units.
The one I have here is a Gold Edition serial number in the 3 million (by the way, Cleanest/Nicest TS-830S I have every seen and has all the filters)

Gordon
N6WK

Gmail - Kevin, Natalia, Stacey & Rochelle wrote:
>
>
> Question,
>
> My TS-830S with the DH button in locks the frequency, Turning the dial
> stops the display, but the frequency changes as I can hear it sweep.
> I still have, in the case of the suggestion below, 14.027.6, does not
> drop the 14. Is there something else that I am doing wrong?
>
> Kevin, ZL1KFM.
>
> ----- Original Message -----
> From: k5lcl@... <mailto:k5lcl%40sbcglobal.net>
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Monday, December 07, 2009 8:13 PM
> Subject: Re: [TS-520_820_530_830] 830S
>
> The "DH" button isn't "pressed in"/on is it? If it is in, the digital
> display will drop the MHz number, and show 027.6, instead of 14.027.6.
> The radio will still tune to other frequencies, but the digital
> reading will stay the same.
> ----- Original Message -----
> From: Victor
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Sunday, December 06, 2009 3:55 AM
> Subject: [TS-520_820_530_830] 830S
>
> Hi all

> I'm new to group and immediately have a problem.
> Recently acquired a TS830S and through my stupidity immediately
> manufactured a fault.
> End result is this:-
> The digital readout doesn't work.
> If I am on 20m the digital readout shows 13.500.0 and stays there even
> though the Rx still tunes across the band. Not only that but if I
> change bands to 40m the readout still shows 13.500.0. But if I switch
> off and then back on the readout now shows 6.500.0 but again doesn't
> move and so on and so on.
> Also the top relay chatters when I switch from CW to SSb.
> Now my stupidity. I had tuned the rig (at this point working OK)
> with the meter in IC position - tuned for dip. I then moved the meter
> to RF and was disturbed. Returning a short while later I forgot I had
> moved the meter to RF and spent quite a long while trying to dip it!!
> After that the display packed in functioning correctly.
> It tunes OK using the analogue so I guess the VFO board is OK. I think
> that leaves me with the PLL and counter board.
> I haven't a clue where to start so can anyone help, please.
> Vic Waddington
> G4JSS
> (First class donkey)
>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
>
>

23806. TS-520S LSB Issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-07 22:55:08 UTC
From: ah6rr1
Topic: 23806 Message: 23806

Aloha All,
Heres a issue I am having with a TS-520S it has low RX audio and very low transmit power on LSB. USB and CW are fine 110W out and good RX audio. The RX level on LSB is the same as USB/CW but the audio level drops by at least 1/3-1/2 the level of the other modes. I am trying to get this going for a new ham. Any help will be greatly accepted.

73 and Merry Christmas.
Roland AH6RR

23807. DH swith on the front of the 820

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-07 23:05:07 UTC
From: Bob
Topic: 23807 Message: 23807

The following is from the manual for the DH switch.

DH (DISPLAY HOLD) SWITCH
(WHEN THE DISPLAY DG-l IS USED.)
With this switch set to ON. the frequency below 100 kHz on
the display dial remains on even when the main dial knob is
rotated. This feature is useful to memorize the original fre~
quency when checking other frequencies. The DH switch
being ON turns off the liglits for "MHz" frequencies, elimina~
ting a worry about mis-reading frequencies.

I find it handy now that I am getting older. I can remember where I am most of the time.

Bob
KB6KPK

23808. Re: My Antenna Problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-07 23:26:52 UTC
From: ah6rr1
Topic: 23781 Message: 23808

Make sure you use at least 4 radials per band more of them would be better.
73
Roland AH6RR

--- In TS-520_820_530_830@yahoogroups.com, "Music Maker" <jhaddleton@...> wrote:
>
> .
> .
> .
> Hi Everyone,
>
> May I thank the many who responded to my distress call. I have taken
> much of the info on board, but in the end have decided to go my own
> 'experimental' way.
>
> I have ordered from Ebay, a new 7 Metre Fibreglass pole. This will be
> strapped to my clothes-line post in the back yard. I am going to
> drill a hole in it about 12" from the ground, and will have a 7 metre
> length of #16 Earth wire inserted through this hole, to the tip of the
> pole. This will be the antenna. The bottom end I will be
> attaching to a 9:1 UnUn (it comes sealed in a box). The inner of the
> coax feed line will be attached to the antenna wire, and the outer to a
> copper earth spike at the base. I am then making an RF Choke (10
> ft of the coax coiled 7 times round), and into the house a run of about
> 20 feet, to connect to my Unbalanced 50 Ohm connection socket on the
> Kenwood AT 230 Tuner.
>
> I will let you all know the results, and pics when it is finished (about
> a week, as have only just ordered all the bits on Ebay). Total
> Cost 38 Pounds (Appx 50 dollars).
>
> Thanks everyone for your advice and opinions. I will not be using 160
> or 80 Metre bands other than listen, BTW. I usually do Dits and Dahs
> on 40, and SSB on 20.
>
> John G3OBU
>
> http://www.John4Music.TV
>

23809. RE: [TS-520_820_530_830] TS-520S LSB Issues

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-07 23:38:24 UTC
From: Greg Anders
Topic: 23806 Message: 23809

Hi Roland,

It is possible that the carrier freq. on LSB is out of spec. One way to tell is to listen to band noise and switch between LSB and USB. Listen for the "pitch" of the background noise. If it is different pitch between the two the LSB carrier may be off frequency resulting in LSB not being centered properly in the pass band of the crystal filter. It is also possible (though not as likely) that if someone has been inside the unit and tweaked any of the IF's you could have the same scenario. However, the band noise-pitch test is easy and the cure is simple.

I hope this helps, let us know what you find/hear,

Greg

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of ah6rr1
Sent: Monday, December 07, 2009 2:55 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS-520S LSB Issues

Aloha All,
Heres a issue I am having with a TS-520S it has low RX audio and very low transmit power on LSB. USB and CW are fine 110W out and good RX audio. The RX level on LSB is the same as USB/CW but the audio level drops by at least 1/3-1/2 the level of the other modes. I am trying to get this going for a new ham. Any help will be greatly accepted.

73 and Merry Christmas.
Roland AH6RR

[Non-text portions of this message have been removed]

23810. I introduce Myself

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-08 00:28:50 UTC
From: Andrea
Topic: 23810 Message: 23810

Hello i Am Andrea from Florence IT.
My callsign is iw5ci and i like to collect Hybrid radios expecially Kenwood. Actually i own:
TS-520S line composed of TS-520S + vfo-520 + Sp-520 and DG-5
TS-830M line composed of TS-830M + Vfo-230 + SP-230
TS-820S line composed of TS-820S + VFO-820 SP-820 +SM-220 station monitor.
I have also a MC-50 mike and another TS-520SE.

Now all my radios are in perfect conditions except for the TS-820S
that i recently bought on ebay in non working conditions. I am restoring it , so i will post for help next days.

The previous ownet had caused a short circuit between ext vfo and radio so it was sold as junk also because before the accident with vfo, the digital display was broken, there was no power in tune, and the 160 meters band was not working.

At the moment i have fixed the tune mode replacing a resistor that was open (R6 in X43-1110-00 board), I have replaced Q9 in fix-vox board and a diode in the external VFO (now both internal and external vfo are working fine), then i cleaned all the contacts inside DG1 and the PLL unit and now i have again a working 160 meters band and the digital display (except for the 100HZ number that is still not operative.

So at the moment i have 2 problems with this wonderful radio:

LOW power in 20 meters: just 70W instead of 90-100W i have in other bands, the last digit of the frequency counter that is still inoperative. So if someone can give me an hand....

73!

23811. Re: TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-08 00:11:24 UTC
From: Andrea
Topic: 23783 Message: 23811

A question: when the display shows 9000 the vfo light is on?

--- In TS-520_820_530_830@yahoogroups.com, "k4mau" <kg4ggx@...> wrote:
>
> Hello to the group
> I'm new hear and am looking forward to learning about these wonderful radios. My current station is a FT-1000MP MK V Field, and AL80B. Just some back ground on me. I've had this station set up for 7 years or so.
> I just got a TS-820S a few days ago. I was aware of the problems from the start so it's a project rig.
> Here are the prblems. In TUN, CW and FSK mode switched to send it shows 60 ma but no carrier output, and the display on the lower bands reads 9.000. On the higher bands in TUN, CW or FSK , and switched to send the display goes to 19.000 with 60ma and no output. I can tune up the final in USB and LSB by transmitting a modulated to into the mic. I get 100+ watts out, and have had it on hte air in SSB no problems. I just don't like tuning it up like this.
> Also on 80 meters it will only go up to 3.953. The VFO can still be turned on higher, but it not changing frequency. I works fine on all other bands.
> Any suggestions and help is appreciated.
> Thanks to all.
> Rob K4MAU
>

23812. Re: TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-08 01:36:36 UTC
From: w5rkl
Topic: 23783 Message: 23812

Rob,

Ok, based on your response, it appears one or both resistors, R5 and R6, on the HV unit have increased significantly in resistance. When this happens which is typically due to age, TUNE mode will not display any ALC indication during tune up.

Check R5 and R6, both 56K 1/2 watt resistors, on the HV UNIT. If one is bad, replace both, not just the bad one. The two 56K resistors form a voltage divider that controls the screen voltage applied to the final tubes in TUNE mode. It's better to replace both resistors if only one is found to be bad.

The HV UNIT PC board is located on the bottom of the 820 just forward of the power transformer. It's a small PC board with 7 resistors and a capacitor mounted on it. There should be 5 wires connected to it, one each at the following labels:

800, 210, FSB, TUNE, and HV.

If you do not have the 820 service manual you can download it from the same link I provided in my last response:

www.n6wk.com/kenwood/

Turn to page 17 and you will see where the HV UNIT board is located.

The resistors you are looking for have colored bands around the body of "GREEN BLUE ORANGE SILVER". There are only 2 of these 56K resistors on the HV UNIT. Check them with an OHM meter. You will have to remove them to verify their actual resistance.

73s
Mike W5RKL

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "k4mau" <kg4ggx@...> wrote:
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> >
> > Rob,
> >
> > Since you didn't say whether or not you have the 820's operator's manual, you can download it at the following website:
> >
> > www.n6wk.com/kenwood/
> >

> > Did you follow the tune up procedures outlined in the 820's operator's manual?
> >
> > If so what indication do you get with the meter set to ALC, MODE switch set to TUNE, CAR control set to 9 or 10 o'clock, and you adjust the DRIVE control? Does the meter indicate a peak meter reading or does the meter sit at zero?
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> > Mike W5RKL
> >
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> > --- In TS-520_820_530_830@yahoogroups.com, "k4mau" <kg4ggx@> wrote:
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> > > Here are the prblems. In TUN, CW and FSK mode switched to send it shows 60 ma but no carrier output, and the display on the lower bands reads 9.000. On the higher bands in TUN, CW or FSK , and switched to send the display goes to 19.000 with 60ma and no output. I can tune up the final in USB and LSB by transmitting a modulated to into the mic. I get 100+ watts out, and have had it on hte air in SSB no problems. I just don't like tuning it up like this.
> > > Also on 80 meters it will only go up to 3.953. The VFO can still be turned on higher, but it not changing frequency. I works fine on all other bands.
> > > Any suggestions and help is appreciated.
> > > Thanks to all.
> > > Rob K4MAU
> > >
> >
>
> Hi
> Boy you guys reply fast. Thanks! I hope I'm replying correctly.
>
> Yes, I have down loaded the operators manual. Attempting to tune by the manual in TUN mode it will only show 60 ma idle current. It will not do anything else at all. No ALC, RF or give anything out to an external watt meter. CW AND FSK is the same way. It seems there is no carrier to the final to modulate it to tune up on. Also, when I switch to send in these modes the display will change to 9.000, or 19.000, or 29.000 band relavent. I am suspect of CAR 2 looking at the service manual.
> In USB and LSB I can get out put, including readings on ALC, IP, and RF. HV reads 800 to 850. And the display will stay on the frequency it's tune to. I set the drive by peaking on the CAL signal. Then preset the Plate to the indicated band range, and set the Load about 12 oclock. I set the mic gain at 5, drive 12 oclock, key the transmitter and modulate with aaaaaaaahhhhhh,(hi hi), or whistle (on a dummy load of coarse), and dip the plate current. Then switch the meter to RF, and peak the load, and redip etc. Then adjust the mic gain back to and occasional alc peak, and I can easily get 100+ wattas out. I get good on the air reports no problem. If I drive the audio real hard the ip will go to about 220 ma. Under normal talking the ip is around 100 ma.

> I would rather tune up using the TUN and CW, but ??? As to the problem on 80 meters,it stops at exactly 3.957. It's on frequency there, but it will not tune any higher. The VFO will continue to be turned but the reciever and transmitter will still be actualy on 3.957. It will tune all other bands up to the high end or the vfo fine. This problem is only related to 75 meters.
> Sorry this was so long. There are other bugs that are minor. These , especially the TUN, CW, FSK problems ar what I would like to solve the most. My test equipment is limited, however I would still like to address this at home. With you alls help I feel I can.
> Thanks very much.
> 73 Rob
>

23813. Re: TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-08 01:46:29 UTC
From: w5rkl
Topic: 23783 Message: 23813

I suspect the problem with the digital display is the COUNTER UNIT need cleaning.

To do this you will have to remove the COUNTER UNIT from the 820. This is easily done.

1. Remove the power cable from the rear of the 820

2. Remove the top and bottom covers

3. Turn the 820 up on its right side (final cage against the table)

4. Locate the COUNTER UNIT and on the bottom of the COUNTER UNIT, remove the edge connector. Remove the multi wire plug on the top of the COUNTER UNIT.

5. Loosen the COUNTER UNIT mounting screw and gently lift the COUNTER UNIT from the 820.

6. Remove the outer cover from the COUNTER UNIT and note there are 2 PC boards inside the metal enclosure.

7. Loosen the mounting screws to one PC board and remove it from the metal enclosure. You will notice a set of fixed pins mounted to the metal enclosure. Give each pin socket on the PC board a shot of contact cleaner. Insert the board onto the fixed pins a number of times then secure the PC board onto the metal enclosure and tighten the mounting screws.

8. Do the same thing to the other PC board as stated in step 7.

9. When completed, use canned air to remove any excess contact cleaner and let the PC board sit for 3 to 5 minutes.

10. Install the COUNTER UNIT back into the 820 in the "reverse" order you removed it.

11. Give the bottom edge connector a short of contact cleaner and connect the plug to the bottom edge a number of times then full seat the connector onto the counter edge, ensuring it seats flat and not at an angle. Use canned air to remove any excess contact cleaner.

12. Give the multi wire plug a shot of contact cleaner and insert then remove the plug a number of time to the top pins on the COUNTER UNIT then seat the plug firmly onto the pins. Use canned air to remove any excess contact cleaner.

Let the 820 sit for a few minutes then reconnect the power cable, speaker, and power up the 820. Check the display, it should, providing nothing else is wrong, display the correct frequency and it should change according to the VFO setting.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Andrea" <andrealiverani@...> wrote:
>
> A question: when the display shows 9000 the vfo light is on?
>

>
>
> --- In TS-520_820_530_830@yahoogroups.com, "k4mau" <kg4ggx@> wrote:
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> > Hello to the group
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> > Also on 80 meters it will only go up to 3.953. The VFO can still be turned on higher, but it not changing frequency. I works fine on all other bands.
> > Any suggestions and help is appreciated.
> > Thanks to all.
> > Rob K4MAU
> >
>

23814. Re: VFO-230 For Sale..... SOLD !!!!!!!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-08 03:35:28 UTC
From: n6wk_skcc3
Topic: 11863 Message: 23814

VFO has Been Sold. Thanks to everyone that sent Emails.
73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "n6wk_skcc3" <n6wk@...> wrote:
>
> I am selling a Nice working VFO-230 with Original Cable.
> I checked it out and it appears to function great. The only cosmetic thing I see is that there is a small area on the top of the front Bezel where some of the paint has rubbed off.
> I can provide pictures if requested.
> I am asking $200.00 plus shipping.
> If interested, please contact me OFF the list
> n6wk at n6wk.com
>
> Thanks,
> Gordon
> N6WK
>

23815. RE: [TS-520_820_530_830] Re: TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-08 09:44:02 UTC
From: Andrea Liverani
Topic: 23783 Message: 23815

Mike gave you the right Tip also my ts-820 had no power in tune. It Was R6 that was perfect from outside but opened at the ohmeter... Replacing both resistors solved all the problems.

To: TS-520_820_530_830@yahoogroups.com
From: w5rkl@...
Date: Tue, 8 Dec 2009 01:36:36 +0000
Subject: [TS-520_820_530_830] Re: TS 820 TUN and CW not working

Rob,

Ok, based on your response, it appears one or both resistors, R5 and R6, on the HV unit have increased significantly in resistance. When this happens which is typically due to age, TUNE mode will not display any ALC indication during tune up.

Check R5 and R6, both 56K 1/2 watt resistors, on the HV UNIT. If one is bad, replace both, not just the bad one. The two 56K resistors form a voltage divider that controls the screen voltage applied to the final tubes in TUNE mode. It's better to replace both resistors if only one is found to be bad.

The HV UNIT PC board is located on the bottom of the 820 just forward of the power transformer. It's a small PC board with 7 resistors and a capacitor mounted on it. There should be 5 wires connected to it, one each at the following labels:

800, 210, FSB, TUNE, and HV.

If you do not have the 820 service manual you can download it from the same link I provided in my last response:

www.n6wk.com/kenwood/

Turn to page 17 and you will see where the HV UNIT board is located.

The resistors you are looking for have colored bands around the body of "GREEN BLUE ORANGE SILVER". There are only 2 of these 56K resistors on the HV UNIT. Check them with an OHM meter. You will have to remove them to verify their actual resistance.

73s

Mike W5RKL

73s

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "k4mau" <kg4ggx@...> wrote:

>

>

>

> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:

> >

> >

> > Rob,

> >

> > Since you didn't say whether or not you have the 820's operator's manual, you can download it at the following website:

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> > Did you follow the tune up procedures outlined in the 820's operator's manual?

> >

> > If so what indication do you get with the meter set to ALC, MODE switch set to TUNE, CAR control set to 9 or 10 o'clock, and you adjust the DRIVE control? Does the meter indicate a peak meter reading or does the meter sit at zero?

> >

> > 73s

> > Mike W5RKL

> >

> >

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> > > Any suggestions and help is appreciated.

> > > Thanks to all.

> > > Rob K4MAU

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> Hi

> Boy you guys reply fast. Thanks! I hope I'm replying correctly.

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> In USB and LSB I can get out put, including readings on ALC, IP, and RF. HV reads 800 to 850. And the display will stay on the frequency it's tune to. I set the drive by peaking on the CAL signal. Then preset the Plate to the indicated band range, and set the Load about 12 oclock. I set the mic gain at 5, drive 12 oclock, key the transmitter and modulate with aaaaaaaahhhhhh,(hi hi), or whistle (on a dummy load of coarse), and dip the plate current. Then switch the meter to RF, and peak the load, and redip etc. Then adjust the mic gain back to and occasional alc peak, and I can easily get 100+ wattas out. I get good on the air reports no problem. If I drive the audio real hard the ip will go to about 220 ma. Under normal talking the ip is around 100 ma.

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> Sorry this was so long. There are other bugs that are minor. These , especially the TUN, CW, FSK problems ar what I would like to solve the most. My test equipment is limited, however I would still like to address this at home. With you alls help I feel I can.

> Thanks very much.

> 73 Rob

>

Scopri tuttele novit? di Internet Explorer 8
http://www.microsoft.com/italy/windows/internet-explorer/msn.aspx

[Non-text portions of this message have been removed]

23816. Re: TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-08 14:26:54 UTC
From: k4mau
Topic: 23783 Message: 23816

Hi
Thanks very much for the reply.
Yes the VFO light stays on when switched into the send position, and the display will change from the tuned freq to 9.0000,19.000 or 29.000 depending on the band selection. Again , this only happens in TUN, CW, and FSK modes. In LSB or USB the display and trans work normal (stays on the tuned freq, and has normal out put).
I understand about the R5 and R6. I will likley go ahead and change those resistor. But will they cause it to not transmit in CW? In CW switched to send or keyed with a key I get 60ma idle IP, but thats it. I cannot get it to trasmit at all in any of those modes (TUN,CW,FSK). Only get idle IP.
I will remove and clean the boards in the display unit. However the display stopping at 3.950 condition only happens on that band. Works normal on all other bands. As well it does not recieve any higher than the display reads. The reciever stops as well as the display. Again this only happens on this one band.
Thanks for the help. I am looking forward to more info and getting this old girl figured out. Using it on SSB has been a real treat.
Thanks again!
73 Rob
--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> I suspect the problem with the digital display is the COUNTER UNIT need cleaning.
>
> To do this you will have to remove the COUNTER UNIT from the 820. This is easily done.
>
> 1. Remove the power cable from the rear of the 820
>
> 2. Remove the top and bottom covers
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> 3. Turn the 820 up on its right side (final cage against the table)
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> 4. Locate the COUNTER UNIT and on the bottom of the COUNTER UNIT, remove the edge connector. Remove the multi wire plug on the top of the COUNTER UNIT.
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> 5. Loosen the COUNTER UNIT mounting screw and gently lift the COUNTER UNIT from the 820.
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> 6. Remove the outer cover from the COUNTER UNIT and note there are 2 PC boards inside the metal enclosure.
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> 8. Do the same thing to the other PC board as stated in step 7.
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> 9. When completed, use canned air to remove any excess contact cleaner and let the PC board sit for 3 to 5 minutes.
>
> 10. Install the COUNTER UNIT back into the 820 in the "reverse" order you removed it.
>
> 11. Give the bottom edge connector a short of contact cleaner and connect the plug to the bottom edge a number of times then full seat the connector onto the counter edge, ensuring it seats flat and not at an angle. Use canned air to remove any excess contact cleaner.
>
> 12. Give the multi wire plug a shot of contact cleaner and insert then remove the plug a number of time to the top pins on the COUNTER UNIT then seat the plug firmly onto the pins. Use canned air to remove any excess contact cleaner.
>
> Let the 820 sit for a few minutes then reconnect the power cable, speaker, and power up the 820. Check the display, it should, providing nothing else is wrong, display the correct frequency and it should change according to the VFO setting.
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> 73s
> Mike W5RKL
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>
> --- In TS-520_820_530_830@yahoogroups.com, "Andrea" <andrealiverani@> wrote:
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> > > Also on 80 meters it will only go up to 3.953. The VFO can still be turned on higher, but it not changing frequency. I works fine on all other bands.
> > > Any suggestions and help is appreciated.
> > > Thanks to all.
> > > Rob K4MAU
> > >
> >
>

23817. Re: TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-08 17:18:15 UTC
From: w5rkl
Topic: 23783 Message: 23817

When you say there is no RF output in CW and FSK, what setting is the CAR control set at? RF output in both CW and FSK mode is controlled by the "CAR" control, not the MIC gain control.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "k4mau" <kg4ggx@...> wrote:
>
>
> Hi
> Thanks very much for the reply.
> Yes the VFO light stays on when switched into the send position, and the display will change from the tuned freq to 9.0000,19.000 or 29.000 depending on the band selection. Again , this only happens in TUN, CW, and FSK modes. In LSB or USB the display and trans work normal (stays on the tuned freq, and has normal out put).
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> > 8. Do the same thing to the other PC board as stated in step 7.
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> > 9. When completed, use canned air to remove any excess contact cleaner and let the PC board sit for 3 to 5 minutes.
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> > 10. Install the COUNTER UNIT back into the 820 in the "reverse" order you removed it.
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> > Let the 820 sit for a few minutes then reconnect the power cable, speaker, and power up the 820. Check the display, it should, providing nothing else is wrong, display the correct frequency and it should change according to the VFO setting.
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can tune up the final in USB and LSB by transmitting a modulated to into the mic. I get 100+ watts out, and have had it on hte air in SSB no problems. I just don't like tuning it up like this.
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> > > > Thanks to all.
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> > > >
> > >
> >
>

23818. Looking for hand mic for Kenwood TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-08 18:16:00 UTC
From: renopithicus
Topic: 23818 Message: 23818

I just picked up a TS-820S on ebay. I'm really looking forward to it, as it will be my first trip into the world of hybrid rigs. Unfortunately, though, it is not coming with a mic. If anyone has (and would like to sell) one of the MC-35 hand mics, please let me know. You can email me at KC2SIZ (at) arrl.net.

Thanks!

23819. 6146A

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-08 18:47:19 UTC
From: Dick Merryman
Topic: 23819 Message: 23819

I have a NOS 6146A that was sent to me by mistake in a 6146B box. Anybody need it? The price is right - free. A couple of bucks to cover shipping appreciated but not required. Note that this tube will not work in a Kenwood hybrid.

-Dick-
N3XRU

[Non-text portions of this message have been removed]

23820. Finally get the radio to transmit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-08 19:56:15 UTC
From: Ron Le Vine
Topic: 23783 Message: 23820

Greetings all,

I have the Kenwood ts-830s radio. After about 6 months of working on it, it finally transmits. The thing is though, it is only putting out about one watt and that falls off to zip in pretty short order.

Has anyone seen this before? All the tubes check out within spec. The tech I am working with thinks it may be a capacitor or two that have gone soft.

Any thoughts would be greatly appreciated.

With regards and 73,
Ron - KF7AYS

23821. RE: [TS-520_820_530_830] Re: TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-08 19:59:42 UTC
From: Andrea Liverani
Topic: 23783 Message: 23821

Hi i know ... my 820 was really worse than yours but a step to another is returning in life.
The resistors cure only the tune problem but it's necessary you measure the resistor near r5 and r6 to see if you find an open resistor.
for the frequency counter i had the "9000" issue before cleaning it. The 3950 issue is not a really problem as the 80 meters band stops before...

To: TS-520_820_530_830@yahoogroups.com
From: kg4ggx@...
Date: Tue, 8 Dec 2009 14:26:54 +0000
Subject: [TS-520_820_530_830] Re: TS 820 TUN and CW not working

Hi

Thanks very much for the reply.

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Thanks for the help. I am looking forward to more info and getting this old girl figured out. Using it on SSB has been a real treat.

Thanks again!

73 Rob

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:

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> To do this you will have to remove the COUNTER UNIT from the 820. This is easily done.

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> 3. Turn the 820 up on its right side (final cage against the table)

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> 4. Locate the COUNTER UNIT and on the bottom of the COUNTER UNIT, remove the edge connector. Remove the multi wire plug on the top of the COUNTER UNIT.

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> 6. Remove the outer cover from the COUNTER UNIT and note there are 2 PC boards inside the metal enclosure.

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> 8. Do the same thing to the other PC board as stated in step 7.

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> 9. When completed, use canned air to remove any excess contact cleaner and let the PC board sit for 3 to 5 minutes.

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> 10. Install the COUNTER UNIT back into the 820 in the "reverse" order you removed it.

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> 11. Give the bottom edge connector a short of contact cleaner and connect the plug to the bottom edge a number of times then full seat the connector onto the counter edge, ensuring it seats flat and not at an angle. Use canned air to remove any excess contact cleaner.

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> 12. Give the multi wire plug a shot of contact cleaner and insert then remove the plug a number of time to the top pins on the COUNTER UNIT then seat the plug firmly onto the pins. Use canned air to remove any excess contact cleaner.

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> Let the 820 sit for a few minutes then reconnect the power cable, speaker, and power up the 820. Check the display, it should, providing nothing else is wrong, display the correct frequency and it should change according to the VFO setting.

>

> 73s

> Mike W5RKL

>

>

> --- In TS-520_820_530_830@yahoogroups.com, "Andrea" <andrealiverani@> wrote:

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> > A question: when the display shows 9000 the vfo light is on?

> >

> >

> >

> > --- In TS-520_820_530_830@yahoogroups.com, "k4mau" <kg4ggx@> wrote:

> > >

> > > Hello to the group

> > > I'm new hear and am looking forward to learning about these wonderful radios. My current station is a FT-1000MP MK V Field, and AL80B. Just some back ground on me. I've had this station set up for 7 years or so.

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> > > Here are the prblems. In TUN, CW and FSK mode switched to send it shows 60 ma but no carrier output, and the display on the lower bands reads 9.000. On the higher bands in TUN, CW or FSK , and switched to send the display goes to 19.000 with 60ma and no output. I can tune up the final in USB and LSB by transmitting a modulated to into the mic. I get 100+ watts out, and have had it on hte air in SSB no problems. I just don't like tuning it up like this.

> > > Also on 80 meters it will only go up to 3.953. The VFO can still be turned on higher, but it not changing frequency. I works fine on all other bands.

> > > Any suggestions and help is appreciated.

> > > Thanks to all.

> > > Rob K4MAU

> > >

> >

>

_____
Giochi, radio, TV... E tutti i tuoi amici. Cercali su Messenger
http://www.messenger.it/home_comunica.aspx

[Non-text portions of this message have been removed]

23822. RE: [TS-520_820_530_830] Looking for hand mic for Kenwood TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-08 20:04:25 UTC
From: Andrea Liverani
Topic: 23818 Message: 23822

Hi, if i can suggest you the perfect mike for your hybrid beauty i would choose an MC-50 or an Astatic D-104 (preamplified) or a Turner +2

To: TS-520_820_530_830@yahoogroups.com
From: renopithicus@...
Date: Tue, 8 Dec 2009 18:16:00 +0000
Subject: [TS-520_820_530_830] Looking for hand mic for Kenwood TS-820S

I just picked up a TS-820S on ebay. I'm really looking forward to it, as it will be my first trip into the world of hybrid rigs. Unfortunately, though, it is not coming with a mic. If anyone has (and would like to sell) one of the MC-35 hand mics, please let me know. You can email me at KC2SIZ (at) arrl.net.

Thanks!

_____
I tuoi amici sempre a portata di clic, sul nuovo Web Messenger
http://www.windowslive.it/foto.aspx

[Non-text portions of this message have been removed]

23823. Re: [TS-520_820_530_830] Looking for hand mic for Kenwood TS-820S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-08 20:07:53 UTC
From: martin
Topic: 23818 Message: 23823

Hi. I see the MC-35 mics on eBAy once in a while, but they are pretty
pricy. I see on now but its in the UK. Pretty much any high
impedance mic should work though they may not sound as good as the
Kenwood mics. An MC-50 would work well with you TS-820.

TTYL

renopithicus wrote:
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> it, as it will be my first trip into the world of hybrid rigs.
> Unfortunately, though, it is not coming with a mic. If anyone has
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>
> Thanks!
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> ------------------------------------
>
> Yahoo! Groups Links
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CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

23824. 1 radio 2 problems!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-08 20:25:12 UTC
From: Andrea Liverani
Topic: 23824 Message: 23824

I am still trying to fix my 820S i have restored cosmetically and now i must fix the remaining problems.

1) i have low power only in 20 meters 65W instead of 100-110 i have elsewhere. The strange thing is
that i obtain this power with load very advanced and plate on the 28 mhz position... and 14 mhz is just
28/2 .... strange isn't' it?
I have realigned the tx to peak alc at 14.175 as reported in the manual i have changed final tubes
the 12by7a and cleaned the band switch but i have still the problem.

2) i have no 100hz reading on the frequency counter at all the last digid is off all the time , all the other segments works fine.

Some advice?

_____
25 Gigabyte per le tue foto online
http://www.windowslive.it/foto.aspx

[Non-text portions of this message have been removed]

23825. Re: TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-08 20:59:53 UTC
From: k4mau
Topic: 23783 Message: 23825

HI Mike
Thanks for all your help. Changing the carrier setting doesn't make any change. And yes I realize the carrier setting controls CW out put. When I key with a key in CW I get the side tone and 60 ma idle IP but nothing else , and carrier doesn't have an effect. I did read about D5 and D6 before I purchased the radio. I was thrown off from them by no CW carrier. However I intend to replace those resistors .
Thanks again!
Rob

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
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> When you say there is no RF output in CW and FSK, what setting is the CAR control set at? RF output in both CW and FSK mode is controlled by the "CAR" control, not the MIC gain control.
>
>
> 73s
> Mike W5RKL
>
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> --- In TS-520_820_530_830@yahoogroups.com, "k4mau" <kg4ggx@> wrote:
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> > Hi
> > Thanks very much for the reply.
> > Yes the VFO light stays on when switched into the send position, and the display will change from the tuned freq to 9.0000,19.000 or 29.000 depending on the band selection. Again , this only happens in TUN, CW, and FSK modes. In LSB or USB the display and trans work normal (stays on the tuned freq, and has normal out put).
> > I understand about the R5 and R6. I will likley go ahead and change those resistor. But will they cause it to not transmit in CW? In CW switched to send or keyed with a key I get 60ma idle IP, but thats it. I cannot get it to trasmit at all in any of those modes (TUN,CW,FSK). Only get idle IP.
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> > Thanks for the help. I am looking forward to more info and getting this old girl figured out. Using it on SSB has been a real treat.
> > Thanks again!
> > 73 Rob
> > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
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> > > 2. Remove the top and bottom covers
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> > > 3. Turn the 820 up on its right side (final cage against the table)
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> > > 4. Locate the COUNTER UNIT and on the bottom of the COUNTER UNIT, remove the edge connector. Remove the multi wire plug on the top of the COUNTER UNIT.
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> > > 5. Loosen the COUNTER UNIT mounting screw and gently lift the COUNTER UNIT from the 820.
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> > > 6. Remove the outer cover from the COUNTER UNIT and note there are 2 PC boards inside the metal enclosure.
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> > > 8. Do the same thing to the other PC board as stated in step 7.
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> > > 9. When completed, use canned air to remove any excess contact cleaner and let the PC board sit for 3 to 5 minutes.
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> > > 11. Give the bottom edge connector a short of contact cleaner and connect the plug to the bottom edge a number of times then full seat the connector onto the counter edge, ensuring it seats flat and not at an angle. Use canned air to remove any excess contact cleaner.
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> > > 12. Give the multi wire plug a shot of contact cleaner and insert then remove the plug a number of time to the top pins on the COUNTER UNIT then seat the plug firmly onto the pins. Use canned air to remove any excess contact cleaner.
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> > > Let the 820 sit for a few minutes then reconnect the power cable, speaker, and power up the 820. Check the display, it should, providing nothing else is wrong, display the correct frequency and it should change according to the VFO setting.
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> > > Mike W5RKL
> > >
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> > > --- In TS-520_820_530_830@yahoogroups.com, "Andrea" <andrealiverani@> wrote:

> > > >
> > > > A question: when the display shows 9000 the vfo light is on?
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> > > > > Hello to the group
> > > > > I'm new hear and am looking forward to learning about these wonderful radios. My current station is a FT-1000MP MK V Field, and AL80B. Just some back ground on me. I've had this station set up for 7 years or so.
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> > > > > Also on 80 meters it will only go up to 3.953. The VFO can still be turned on higher, but it not changing frequency. I works fine on all other bands.
> > > > > Any suggestions and help is appreciated.
> > > > > Thanks to all.
> > > > > Rob K4MAU
> > > > >
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23826. Re: TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-08 21:12:36 UTC
From: k4mau
Topic: 23783 Message: 23826

Hi Andrea
Thanks much for your help also. I do plan to remove and clean the VFO. However it does tune thru all other bands fine. I guess the last 50 kc of 75 meters isn't a big deal, but it does indicate a problem with that band. I have compared it with my other radios both TX and RX, and do know the 820 does indeed stop at 3.955 It's not just the display. My thought is if the VFO tunes all the other bands completely to the top end the VFO is working correctly. That leads me to think the problem is somewhere else with the 3.5 MHZ band. Any thought ae greatly appreciated.
Thanks
Rob

--- In TS-520_820_530_830@yahoogroups.com, Andrea Liverani <andrealiverani@...> wrote:
>
>
> Hi i know ... my 820 was really worse than yours but a step to another is returning in life.
> The resistors cure only the tune problem but it's necessary you measure the resistor near
> r5 and r6 to see if you find an open resistor.
> for the frequency counter i had the "9000" issue before cleaning it. The 3950 issue is not
> a really problem as the 80 meters band stops before...
>
> To: TS-520_820_530_830@yahoogroups.com
> From: kg4ggx@...
> Date: Tue, 8 Dec 2009 14:26:54 +0000
> Subject: [TS-520_820_530_830] Re: TS 820 TUN and CW not working
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> Thanks again!
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>
> [Non-text portions of this message have been removed]
>

23828. Re: TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-08 21:35:56 UTC
From: n6wk_skcc3
Topic: 23783 Message: 23828

Make sure the VOX delay is NOT fully counterclockwise and clicks..

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "k4mau" <kg4ggx@...> wrote:
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> HI Mike
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> > > > > > Also on 80 meters it will only go up to 3.953. The VFO can still be turned on higher, but it not changing frequency. I works fine on all other bands.
> > > > > > Any suggestions and help is appreciated.
> > > > > > Thanks to all.
> > > > > > Rob K4MAU
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23829. Re: TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-08 21:55:27 UTC
From: WimP
Topic: 23783 Message: 23829

Rob, Andrea,

Stopping working on the top if the band is almost always a problem in the PLL unit. The tuning voltage to the VCO is then too high.
Usually it is just a re-alignment of the tuning voltage.
Download the service manual and study that part.
I do not have a TS520/820 myself, but this is a common fault in all PLL's of transceivers of that age.

My 2 cents,
73, Wim PA0PGA

--- In TS-520_820_530_830@yahoogroups.com, "k4mau" <kg4ggx@...> wrote:
>
> Hi Andrea
> Thanks much for your help also. I do plan to remove and clean the VFO. However it does tune thru all other bands fine. I guess the last 50 kc of 75 meters isn't a big deal, but it does indicate a problem with that band. I have compared it with my other radios both TX and RX, and do know the 820 does indeed stop at 3.955 It's not just the display. My thought is if the VFO tunes all the other bands completely to the top end the VFO is working correctly. That leads me to think the problem is somewhere else with the 3.5 MHZ band. Any thought ae greatly appreciated.
> Thanks
> Rob
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>
> --- In TS-520_820_530_830@yahoogroups.com, Andrea Liverani <andrealiverani@> wrote:
> >
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> > Hi i know ... my 820 was really worse than yours but a step to another is returning in life.
> > The resistors cure only the tune problem but it's necessary you measure the resistor near
> > r5 and r6 to see if you find an open resistor.
> > for the frequency counter i had the "9000" issue before cleaning it. The 3950 issue is not
> > a really problem as the 80 meters band stops before...
> >
> > To: TS-520_820_530_830@yahoogroups.com
> > From: kg4ggx@
> > Date: Tue, 8 Dec 2009 14:26:54 +0000
> > Subject: [TS-520_820_530_830] Re: TS 820 TUN and CW not working
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> > I will remove and clean the boards in the display unit. However the display stopping at 3.950 condition only happens on that band. Works normal on all other bands. As well it does not recieve any higher than the display reads. The reciever stops as well as the display. Again this only happens on this one band.
> >
> > Thanks for the help. I am looking forward to more info and getting this old girl figured out. Using it on SSB has been a real treat.
> >
> > Thanks again!
> >

> > 73 Rob
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> > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
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> > > I suspect the problem with the digital display is the COUNTER UNIT need cleaning.
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> > > To do this you will have to remove the COUNTER UNIT from the 820. This is easily done.
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> > > 1. Remove the power cable from the rear of the 820
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> > > 3. Turn the 820 up on its right side (final cage against the table)
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> > > 4. Locate the COUNTER UNIT and on the bottom of the COUNTER UNIT, remove the edge connector. Remove the multi wire plug on the top of the COUNTER UNIT.
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> > > 5. Loosen the COUNTER UNIT mounting screw and gently lift the COUNTER UNIT from the 820.
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> > > 6. Remove the outer cover from the COUNTER UNIT and note there are 2 PC boards inside the metal enclosure.
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> > > 8. Do the same thing to the other PC board as stated in step 7.

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> > > 10. Install the COUNTER UNIT back into the 820 in the "reverse" order you removed it.
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> > > 11. Give the bottom edge connector a short of contact cleaner and connect the plug to the bottom edge a number of times then full seat the connector onto the counter edge, ensuring it seats flat and not at an angle. Use canned air to remove any excess contact cleaner.
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> > > 12. Give the multi wire plug a shot of contact cleaner and insert then remove the plug a number of time to the top pins on the COUNTER UNIT then seat the plug firmly onto the pins. Use canned air to remove any excess contact cleaner.
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> > > Let the 820 sit for a few minutes then reconnect the power cable, speaker, and power up the 820. Check the display, it should, providing nothing else is wrong, display the correct frequency and it should change according to the VFO setting.
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> > > Mike W5RKL
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> > _____
> > Giochi, radio, TV... E tutti i tuoi amici. Cercali su Messenger
> > http://www.messenger.it/home_comunica.aspx
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> > [Non-text portions of this message have been removed]
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23830. Re: [TS-520_820_530_830] 1 radio 2 problems!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-08 22:35:21 UTC
From: Dave ve3wej
Topic: 23824 Message: 23830

for problem number 2.... dont look for voltage on each segment, look for common ground problem

I suspect your ground to the digit may possibly be lost..

>
> 2) i have no 100hz reading on the frequency counter at all the last digid
> is off all the time , all the other segments works fine.
>
> Some advice?
>
> _____
> 25 Gigabyte per le tue foto online
> http://www.windowslive.it/foto.aspx
>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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23831. Re: TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-08 22:51:17 UTC
From: w5rkl
Topic: 23783 Message: 23831

Rob,

All of the Kenwood hybrid VFOs operate on a specific range of frequencies. The 520 and 820 VFOs operate between 4.999Mhz and 5.500Mhz on ALL band. The 530 and 830, however, operate between 5.400Mhz and 6.100Mhz.

I assume the VFO tunes smoothly, no jumpy or erratic behavior occurs when tuning the VFO. If that's true then the VFOs working fine. If you have a frequency counter, pull the RCA plug cable from the rear of the VFO and connect the VFO output RCA socket to the frequency counter. Tune the VFO from the low end, 0.0 to the high end 500. The counter should display 5.500Mhz at the low end and 4.999Mhz or 5.000Mhz on the top end of the dial. If it does then, again, the VFO is fine.

Check the 9VDC supply on the AF AVR UNIT. Remove the top and bottom cover, turn the 820 upside down with the front panel facing you. The AF AVR UNIT is located directly below the VFO. The board 2 plugs along the front panel, AF1 and AF2. AF1 is on the left and AF2 on the right. Pins are numbered right to left, 1, 2, 3, 4, 5, and 6.

Connect you DC volt meter to AF1 pin 1 or 2. The voltage should be 9VDC If it is not then adjust VR4, in the middle of the board (not the large plastic pot, that's the RIT pot) so the volt meter reads 9VDC +/- .5VDC.

Next, move the DC probe to pin 6 on AF2. The voltage should be 3.3VDC. If it is not, adjust VR1, located between AF1 and AF2 plug, so the meter reads 3.3VDC +/- .5VDC.

The hybrids have a tendency to have dirty plugs on the PC boards. Also, the pins and plus do not always make good connections which leads to other problems. I had a problem where my 820 appeared, visually, to be working fine but, no receive and no transmit. The problem was one or more of the pins on a number of plugs that were simply not making good contact. I fed the 8Mhz IF signal to the IF board and I could hear it fine but nothing on transmit or receive. I remove all plugs, cleaned them, and put them all back onto their respective pins then ensured all board mounting screws were tight and it worked. I can't say for sure this will fix your problem, just a thought from my experience.

The VFO in ALL of the hybrids are powered from the 9VDC supply. Any instability in the 9VDC supply will affect the VFO's stability.

Drift in the 820 can be traced to the 9VDC supply and typically is caused by aging D5 (6 volt zener) and Q7 (2SA496Y) regulator, both on the AF AVR board. Replacing both D5 and Q7 will significantly improve the drift in the 820. You can find new Q7s at the following website.

http://www.electronicsurplus.com/ccp78762-to-220-pnp-transistor-2sa496-y-13844.htm

I bought 10 of them and replace Q7 and D5. The drift was significantly reduced to well within factory specs.

You can replace D5 with any 6.1 volt 1/2 watt zener. Mouser sells them cheap.

I would do voltage checks on the driver and final tubes.

There is a high resolution schematic with voltages you can read at n6wk's website.

www.n6wk.com/kenwood/

Scroll down and click on the 820 high resolution schematic. If you have already done this, disregard this recommendation.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "k4mau" <kg4ggx@...> wrote:
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> Hi Andrea
> Thanks much for your help also. I do plan to remove and clean the VFO. However it does tune thru all other bands fine. I guess the last 50 kc of 75 meters isn't a big deal, but it does indicate a problem with that band. I have compared it with my other radios both TX and RX, and do know the 820 does indeed stop at 3.955 It's not just the display. My thought is if the VFO tunes all the other bands completely to the top end the VFO is working correctly. That leads me to think the problem is somewhere else with the 3.5 MHZ band. Any thought ae greatly appreciated.
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> > [Non-text portions of this message have been removed]
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23832. Re: TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-09 00:19:55 UTC
From: k4mau
Topic: 23783 Message: 23832

Mike
I don't have a freq conuter. I do think the vfo is working ok as the freq stop problem is only on 75 meter. It tunes all other bands from one end to the other fine. 80/75 starts at 3.492 and stops at 3.953 at this moment. I will go up to 3.961 or so when first turned on and as it warms up it comes down to 3.953 or so. This is the actual freq of the radio as I described before. I'm thinking , as someone else suggested it may me in the PLL. It only does this on 75 meters, so I guess I can live with that for a while.
I'm running voltage checks at this time starting with the HV and Rectifier boards, and following through the shcematic that is in my service manual that came with the radio. I will check out the web site you suggested. A larger copy would be nice. As this is only a one page fold out and my eyes aren't near as good as they were.
At this point I guess the major concern is no TUN and CW to use to tune the final. Tuning up with a whistle isn't any fun. I will have to get some 56K resistor for the HV board. If you or anyone has any more thoughts about the TUN/CW issue please let me know your thoughts.
Thank very much to all.
Rob

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
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> Rob,
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> http://www.electronicsurplus.com/ccp78762-to-220-pnp-transistor-2sa496-y-13844.htm
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> I bought 10 of them and replace Q7 and D5. The drift was significantly reduced to well within factory specs.
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> You can replace D5 with any 6.1 volt 1/2 watt zener. Mouser sells them cheap.
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> I would do voltage checks on the driver and final tubes.
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> There is a high resolution schematic with voltages you can read at n6wk's website.
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> www.n6wk.com/kenwood/
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> Scroll down and click on the 820 high resolution schematic. If you have already done this, disregard this recommendation.
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> > > a really problem as the 80 meters band stops before...
> > >
> > > To: TS-520_820_530_830@yahoogroups.com
> > > From: kg4ggx@
> > > Date: Tue, 8 Dec 2009 14:26:54 +0000
> > > Subject: [TS-520_820_530_830] Re: TS 820 TUN and CW not working
> > >
> > >
> > >

> > >
> > > Thanks very much for the reply.
> > >
> > > Yes the VFO light stays on when switched into the send position, and the display will change from the tuned freq to 9.0000,19.000 or 29.000 depending on the band selection. Again , this only happens in TUN, CW, and FSK modes. In LSB or USB the display and trans work normal (stays on the tuned freq, and has normal out put).
> > >
> > > I understand about the R5 and R6. I will likley go ahead and change those resistor. But will they cause it to not transmit in CW? In CW switched to send or keyed with a key I get 60ma idle IP, but thats it. I cannot get it to trasmit at all in any of those modes (TUN,CW,FSK). Only get idle IP.
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> > > I will remove and clean the boards in the display unit. However the display stopping at 3.950 condition only happens on that band. Works normal on all other bands. As well it does not recieve any higher than the display reads. The reciever stops as well as the display. Again this only happens on this one band.
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> > > Thanks for the help. I am looking forward to more info and getting this old girl figured out. Using it on SSB has been a real treat.
> > >
> > > Thanks again!
> > >
> > > 73 Rob
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
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> > > >
> > >
> > > > I suspect the problem with the digital display is the COUNTER UNIT need cleaning.
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> > > > To do this you will have to remove the COUNTER UNIT from the 820. This is easily done.
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> > > > 2. Remove the top and bottom covers
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> > > > 3. Turn the 820 up on its right side (final cage against the table)
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> > > > 4. Locate the COUNTER UNIT and on the bottom of the COUNTER UNIT, remove the edge connector. Remove the multi wire plug on the top of the COUNTER UNIT.
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> > > > 12. Give the multi wire plug a shot of contact cleaner and insert then remove the plug a number of time to the top pins on the COUNTER UNIT then seat the plug firmly onto the pins. Use canned air to remove any excess contact cleaner.
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> > > > Let the 820 sit for a few minutes then reconnect the power cable, speaker, and power up the 820. Check the display, it should, providing nothing else is wrong, display the correct frequency and it should change according to the VFO setting.
> > >
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> > > > 73s
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> > > > Mike W5RKL
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> > > > --- In TS-520_820_530_830@yahoogroups.com, "Andrea" <andrealiverani@> wrote:
> > >
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> > > > > A question: when the display shows 9000 the vfo light is on?
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> > > > > > --- In TS-520_820_530_830@yahoogroups.com, "k4mau" <kg4ggx@> wrote:
> > >
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> > > > > > > Hello to the group
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> > > > > > > I'm new hear and am looking forward to learning about these wonderful radios. My current station is a FT-1000MP MK V Field, and AL80B. Just some back ground on me. I've had this station set up for 7 years or so.
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> > > > > > > I just got a TS-820S a few days ago. I was aware of the problems from the start so it's a project rig.
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> > > > > > > Here are the prblems. In TUN, CW and FSK mode switched to send it shows 60 ma but no carrier output, and the display on the lower bands reads 9.000. On the higher bands in TUN, CW or FSK , and switched to send the display goes to 19.000 with 60ma and no output. I can tune up the final in USB and LSB by transmitting a modulated to into the mic. I get 100+ watts out, and have had it on hte air in SSB no problems. I just don't like tuning it up like this.
> > >
> > > > > > > Also on 80 meters it will only go up to 3.953. The VFO can still be turned on higher, but it not changing frequency. I works fine on all other bands.
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> > > > > > > Any suggestions and help is appreciated.

> > >
> > > > > > Thanks to all.
> > >
> > > > > > Rob K4MAU
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> > > _____
> > > Giochi, radio, TV... E tutti i tuoi amici. Cercali su Messenger
> > > http://www.messenger.it/home_comunica.aspx
> > >
> > > [Non-text portions of this message have been removed]
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23833. Re: [TS-520_820_530_830] Finally get the radio to transmit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-09 01:23:47 UTC
From: Chris and Alex
Topic: 23783 Message: 23833

Ron,

A quickie that's worth looking at is the soldered connections at the top of L2, the plate choke. If the tubes have been in and out a few times this joint gets dry and it's worth wetting it with a hot iron.

Chris

2009/12/8 Ron Le Vine <levine.ron@...>

>
>
> Greetings all,
>
> I have the Kenwood ts-830s radio. After about 6 months of working on it,
> it finally transmits. The thing is though, it is only putting out about
> one watt and that falls off to zip in pretty short order.
>
> Has anyone seen this before? All the tubes check out within spec. The
> tech I am working with thinks it may be a capacitor or two that have
> gone soft.
>
> Any thoughts would be greatly appreciated.
>
> With regards and 73,
> Ron - KF7AYS
>
>

[Non-text portions of this message have been removed]

23834. RE: [TS-520_820_530_830] Finally get the radio to transmit

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-09 02:49:35 UTC
From: Tate Antrim
Topic: 23783 Message: 23834

I had this problem as well. It would start at 100W and then after a few minutes nothing...the radio was in storage for nearly 20 years when I bought it and that solder connection was not good at the top of the choke. But I also had temp sensitive resistors in the cathode circuit. These would be fine cold but as they heated up and were used their resistance began to climb and then the IP would fluctuate rapidly under load. Let them cool and the radio would be fine. Wound up getting the resistor/capacitor kit from k4eaa - solved the problem and the radio runs like a champ now.

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Chris and Alex
Sent: Tuesday, December 08, 2009 8:24 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Finally get the radio to transmit

Ron,

A quickie that's worth looking at is the soldered connections at the top of L2, the plate choke. If the tubes have been in and out a few times this joint gets dry and it's worth wetting it with a hot iron.

Chris

2009/12/8 Ron Le Vine <levine.ron@...>

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> it finally transmits. The thing is though, it is only putting out about
> one watt and that falls off to zip in pretty short order.
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> Has anyone seen this before? All the tubes check out within spec. The
> tech I am working with thinks it may be a capacitor or two that have
> gone soft.
>
> Any thoughts would be greatly appreciated.
>
> With regards and 73,
> Ron - KF7AYS
>
>

[Non-text portions of this message have been removed]

Yahoo! Groups Links

23835. broke my TS-520S (with keyer maybe)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-09 02:48:05 UTC
From: Trav
Topic: 23835 Message: 23835

I'm new to ham radio, just got my license in October 2009, and bought a used TS-520S at a ham swap meet the same day. It was working good on both receive and transmit and I had just recently learned how to tune it up according to the user manual and to use my external tuner to tune up my dipole outside. Everything was looking good and I even made a voice contact once on 80 meters.

I have a straight key and a no-name keyer and paddle unit (which I got from my brother - a lapsed ham). I plugged in the keyer and it seemed to work, I got a side tone and tuning proceeded normally. A few days later I decided to try it again and use the side tone to practice my morse code. I left the heater switch off, checked the plate idle current, changed the mode switch to TUN, checked ALC, changed mode switch to CW, flipped the "tune" toggle switch on the keyer to close the contacts, dipped the plate, all okay. Then I turned the "tune" toggle off and began practicing with the keyer.

About three minutes later the tones suddenly dropped down to silence and nothing further would work. After shutting off the rig I let it cool for awhile and then turned it back on. It won't transmit and it won't receive either. Using the tune-up instructions gets me through the "dip the plate" step okay, but after switching the meter to RF to peak the meter with the plate and load controls there is no response from the meter. Also, no sidetone with either keyer or straight key.

On receive I can hear a smooth background hiss, and if I twist the drive knob I can hear the sweet spot go by with the slight sound of motorboat noise (probably from my pellet stove which is in the same room). The calibrator signal works correctly and is easy to hear. But there is no reception. I've checked the antenna connections and antenna tuner and all are okay and set normally as I've done before.

No smoke or smell was noticed, but I think I broke something. given that my electronics skills are rudimentary is this something I can try fixing myself, or will it require a trip to the shop?

thanks for all your help.

Jerry
KF7FOW

23836. Re: [TS-520_820_530_830] Re: TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-09 05:23:30 UTC
From: Chuck Goelz
Topic: 23783 Message: 23836

Rob,

I can't help but think that the TUNE (which is a CW mode) and CW mode problem is due to the carrier oscillator (bad crystal, misadjusted coil, etc). The resonant circuits for USB, LSB, and CW are independent, but the rest of the oscillator circuit is common to all three modes.

Just my thoughts... If Mike disagrees, listen to HIM!! I always DO!

Cheers and GL,
Chuck WA3CEJ

----- Original Message -----
From: k4mau
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 08, 2009 7:19 PM
Subject: [TS-520_820_530_830] Re: TS 820 TUN and CW not working

Mike
I don't have a freq conuter. I do think the vfo is working ok as the freq stop problem is only on 75 meter. It tunes all other bands from one end to the other fine. 80/75 starts at 3.492 and stops at 3.953 at this moment. I will go up to 3.961 or so when first turned on and as it warms up it comes down to 3.953 or so. This is the actual freq of the radio as I described before. I'm thinking , as someone else suggested it may me in the PLL. It only does this on 75 meters, so I guess I can live with that for a while.
I'm running voltage checks at this time starting with the HV and Rectifier boards, and following through the shcematic that is in my service manual that came with the radio. I will check out the web site you suggested. A larger copy would be nice. As this is only a one page fold out and my eyes aren't near as good as they were.
At this point I guess the major concern is no TUN and CW to use to tune the final. Tuning up with a whistle isn't any fun. I will have to get some 56K resistor for the HV board. If you or anyone has any more thoughts about the TUN/CW issue please let me know your thoughts.
Thank very much to all.
Rob

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Rob,
>
> All of the Kenwood hybrid VFOs operate on a specific range of frequencies. The 520 and 820 VFOs operate between 4.999Mhz and 5.500Mhz on ALL band. The 530 and 830, however, operate between 5.400Mhz and 6.100Mhz.
>
> I assume the VFO tunes smoothly, no jumpy or erratic behavior occurs when tuning the VFO. If that's true then the VFOs working fine. If you have a frequency counter, pull the RCA

plug cable from the rear of the VFO and connect the VFO output RCA socket to the frequency counter. Tune the VFO from the low end, 0.0 to the high end 500. The counter should display 5.500Mhz at the low end and 4.999Mhz or 5.000Mhz on the top end of the dial. If it does then, again, the VFO is fine.
>
> Check the 9VDC supply on the AF AVR UNIT. Remove the top and bottom cover, turn the 820 upside down with the front panel facing you. The AF AVR UNIT is located directly below the VFO. The board 2 plugs along the front panel, AF1 and AF2. AF1 is on the left and AF2 on the right. Pins are numbered right to left, 1, 2, 3, 4, 5, and 6.
>
> Connect you DC volt meter to AF1 pin 1 or 2. The voltage should be 9VDC If it is not then adjust VR4, in the middle of the board (not the large plastic pot, that's the RIT pot) so the volt meter reads 9VDC +/- .5VDC.
>
> Next, move the DC probe to pin 6 on AF2. The voltage should be 3.3VDC. If it is not, adjust VR1, located between AF1 and AF2 plug, so the meter reads 3.3VDC +/- .5VDC.
>
> The hybrids have a tendency to have dirty plugs on the PC boards. Also, the pins and plus do not always make good connections which leads to other problems. I had a problem where my 820 appeared, visually, to be working fine but, no receive and no transmit. The problem was one or more of the pins on a number of plugs that were simply not making good contact. I fed the 8Mhz IF signal to the IF board and I could hear it fine but nothing on transmit or receive. I remove all plugs, cleaned them, and put them all back onto their respective pins then ensured all board mounting screws were tight and it worked. I can't say for sure this will fix your problem, just a thought from my experience.
>
> The VFO in ALL of the hybrids are powered from the 9VDC supply. Any instability in the 9VDC supply will affect the VFO's stability.
>
> Drift in the 820 can be traced to the 9VDC supply and typically is caused by aging D5 (6 volt zener) and Q7 (2SA496Y) regulator, both on the AF AVR board. Replacing both D5 and Q7 will significantly improve the drift in the 820. You can find new Q7s at the following website.
>
> http://www.electronicsurplus.com/ccp78762-to-220-pnp-transistor-2sa496-y-13844.htm
>
> I bought 10 of them and replace Q7 and D5. The drift was significantly reduced to well within factory specs.
>
> You can replace D5 with any 6.1 volt 1/2 watt zener. Mouser sells them cheap.
>
> I would do voltage checks on the driver and final tubes.
>
> There is a high resolution schematic with voltages you can read at n6wk's website.
>
> www.n6wk.com/kenwood/
>
> Scroll down and click on the 820 high resolution schematic. If you have already done this, disregard this recommendation.
>
> 73s

> Mike W5RKL
>
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>
> --- In TS-520_820_530_830@yahoogroups.com, "k4mau" <kg4ggx@> wrote:
> >
> > Hi Andrea
> > Thanks much for your help also. I do plan to remove and clean the VFO. However it does tune thru all other bands fine. I guess the last 50 kc of 75 meters isn't a big deal, but it does indicate a problem with that band. I have compared it with my other radios both TX and RX, and do know the 820 does indeed stop at 3.955 It's not just the display. My thought is if the VFO tunes all the other bands completely to the top end the VFO is working correctly. That leads me to think the problem is somewhere else with the 3.5 MHZ band. Any thought ae greatly appreciated.
> > Thanks
> > Rob
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, Andrea Liverani <andrealiverani@> wrote:
> > >
> > >
> > > Hi i know ... my 820 was really worse than yours but a step to another is returning in life.
> > > The resistors cure only the tune problem but it's necessary you measure the resistor near
> > > r5 and r6 to see if you find an open resistor.
> > > for the frequency counter i had the "9000" issue before cleaning it. The 3950 issue is not
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> > > To: TS-520_820_530_830@yahoogroups.com
> > > From: kg4ggx@
> > > Date: Tue, 8 Dec 2009 14:26:54 +0000
> > > Subject: [TS-520_820_530_830] Re: TS 820 TUN and CW not working
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> > > Thanks again!
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> > > 73 Rob
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> > > _____
> > > Giochi, radio, TV... E tutti i tuoi amici. Cercali su Messenger
> > > http://www.messenger.it/home_comunica.aspx
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> > > [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

23837. Re: [TS-520_820_530_830] 830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-09 09:19:46 UTC
From: k5lcl@sbcglobal.net
Topic: 23784 Message: 23837

The DH button works as stated for the TS-820. It MAY not drop the first digit or two for the 830, I don't know. But if the button is out, the digital display SHOULD change. Pressed in, it locks the display, but not the tuning capability of the VFO. The DH button is just there to help you remember where you LEFT in case you want to go back there the next time. It's really not much use.

----- Original Message -----
From: Gmail - Kevin, Natalia, Stacey & Rochelle
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, December 07, 2009 4:19 PM
Subject: Re: [TS-520_820_530_830] 830S

Question,

My TS-830S with the DH button in locks the frequency, Turning the dial stops the display, but the frequency changes as I can hear it sweep.
I still have, in the case of the suggestion below, 14.027.6, does not drop the 14. Is there something else that I am doing wrong?

Kevin, ZL1KFM.

----- Original Message -----
From: k5lcl@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, December 07, 2009 8:13 PM
Subject: Re: [TS-520_820_530_830] 830S

The "DH" button isn't "pressed in"/on is it? If it is in, the digital display will drop the MHz number, and show 027.6, instead of 14.027.6. The radio will still tune to other frequencies, but the digital reading will stay the same.
----- Original Message -----
From: Victor
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, December 06, 2009 3:55 AM
Subject: [TS-520_820_530_830] 830S

Hi all
I'm new to group and immediately have a problem.
Recently acquired a TS830S and through my stupidity immediately manufactured a fault.
End result is this:-
The digital readout doesn't work.
If I am on 20m the digital readout shows 13.500.0 and stays there even though the Rx still tunes across the band. Not only that but if I change bands to 40m the readout still shows 13.500.0. But if I switch off and then back on the readout now shows 6.500.0 but again doesn't move and so on and so on.
Also the top relay chatters when I switch from CW to SSb.
Now my stupidity. I had tuned the rig (at this point working OK) with the meter in IC

position - tuned for dip. I then moved the meter to RF and was disturbed. Returning a short while later I forgot I had moved the meter to RF and spent quite a long while trying to dip it!! After that the display packed in functioning correctly.
It tunes OK using the analogue so I guess the VFO board is OK. I think that leaves me with the PLL and counter board.
I haven't a clue where to start so can anyone help, please.
Vic Waddington
G4JSS
(First class donkey)

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23838. Re: 830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-09 12:43:44 UTC
From: boat.anchor
Topic: 23784 Message: 23838

Kind of like why my wife puts a return address in my lunch bag every morning.
regards
Barry

--- In TS-520_820_530_830@yahoogroups.com, <k5lcl@...> wrote:
>
> The DH button is just there to help you remember where you LEFT in case you want to go back there the next time. It's really not much use.
>

23839. RE: [TS-520_820_530_830] Re: 830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-09 13:44:54 UTC
From: Kevin King
Topic: 23784 Message: 23839

Now that is funny!

Unless your name is Tiger! Ouch.

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of boat.anchor
Sent: Wednesday, December 09, 2009 7:44 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: 830S

Kind of like why my wife puts a return address in my lunch bag every
morning.
regards
Barry

--- In TS-520_820_530_830@yahoogroups.com, <k5lcl@...> wrote:
>
> The DH button is just there to help you remember where you LEFT in case
you want to go back there the next time. It's really not much use.
>

Yahoo! Groups Links

23840. Re: TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-09 14:13:36 UTC
From: w5rkl
Topic: 23783 Message: 23840

Glad to see more information is surfacing which helps in suggestions.

Someone said it could be the CAR UNIT. That's a possibility that should not be over looked. In addition to the CAR UNIT, I also suggest the PLL UNIT.

I recommend removing both the PLL and the CAR UNIT enclosures, one at a time, and clean each one. This means not only to clean the pins on the outer edge but to remove the 2 PC boards inside the enclosures and clean the pins and sockets on each board.

Remove each enclosure, one at a time, then remove the cover. Remove each PC board, clean the sockets and pins, then put the board back into the enclosure, secured with the mounting hardware. Do the same to the other board. Once completed, reinstall the unit back into the 820. Clean each plug and pin on the edge of the unit then install the plugs back onto the unit.

Do the same thing with the unit.

Once this has been done, check for proper operation.

73s
Mike W5RKL

23841. RE: [TS-520_820_530_830] 1 radio 2 problems!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-09 08:02:42 UTC
From: Andrea Liverani
Topic: 23824 Message: 23841

Thank you very much. I will check ground connection from the display to the chassis!

To: TS-520_820_530_830@yahoogroups.com
From: ve3wej@gmail.com
Date: Tue, 8 Dec 2009 17:35:21 -0500
Subject: Re: [TS-520_820_530_830] 1 radio 2 problems!

for problem number 2.... dont look for voltage on each segment, look for

common ground problem

I suspect your ground to the digit may possibly be lost..

>

> 2) i have no 100hz reading on the frequency counter at all the last digid

> is off all the time , all the other segments works fine.

>

> Some advice?

>

> --

> 25 Gigabyte per le tue foto online

> http://www.windowslive.it/foto.aspx

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> [Non-text portions of this message have been removed]

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> Yahoo! Groups Links

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Di che umore sei oggi? Dillo con le Emoticon
http://intrattenimento.it.msn.com/emoticon

[Non-text portions of this message have been removed]

23842. RE: [TS-520_820_530_830] Re: TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-09 07:54:00 UTC
From: Andrea Liverani
Topic: 23783 Message: 23842

Yes, I think it's a problem in the 3.5 mhz vco and i think you can fix it just with a small realignment of the single band vco.

To: TS-520_820_530_830@yahoogroups.com
From: wpenders@...
Date: Tue, 8 Dec 2009 21:55:27 +0000
Subject: [TS-520_820_530_830] Re: TS 820 TUN and CW not working

Rob, Andrea,

Stopping working on the top if the band is almost always a problem in the PLL unit. The tuning voltage to the VCO is then too high.

Usually it is just a re-alignment of the tuning voltage.

Download the service manual and study that part.

I do not have a TS520/820 myself, but this is a common fault in all PLL's of transceivers of that age.

My 2 cents,

73, Wim PA0PGA

--- In TS-520_820_530_830@yahoogroups.com, "k4mau" <kg4ggx@...> wrote:

>

> Hi Andrea

> Thanks much for your help also. I do plan to remove and clean the VFO. However it does tune thru all other bands fine. I guess the last 50 kc of 75 meters isn't a big deal, but it does indicate a problem with that band. I have compared it with my other radios both TX and RX, and do know the 820 does indeed stop at 3.955 It's not just the display. My thought is if the VFO tunes all the other bands completely to the top end the VFO is working correctly. That leads me to think the problem is somewhere else with the 3.5 MHZ band. Any thought ae greatly appreciated.

> Thanks

> Rob

>

>

> --- In TS-520_820_530_830@yahoogroups.com, Andrea Liverani <andrealiverani@> wrote:

> >

> >

> > Hi i know ... my 820 was really worse than yours but a step to another is returning in life.

> > The resistors cure only the tune problem but it's necessary you measure the resistor near

> > r5 and r6 to see if you find an open resistor.

> > for the frequency counter i had the "9000" issue before cleaning it. The 3950 issue is not

> > a really problem as the 80 meters band stops before...

> >

> > To: TS-520_820_530_830@yahoogroups.com

> > From: kg4ggx@

> > Date: Tue, 8 Dec 2009 14:26:54 +0000

> > Subject: [TS-520_820_530_830] Re: TS 820 TUN and CW not working

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> > Hi

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> > Thanks very much for the reply.

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> > Yes the VFO light stays on when switched into the send position, and the display will change from the tuned freq to 9.0000,19.000 or 29.000 depending on the band selection. Again , this only happens in TUN, CW, and FSK modes. In LSB or USB the display and trans work normal (stays on the tuned freq, and has normal out put).

> >

> > I understand about the R5 and R6. I will likley go ahead and change those resistor. But will they cause it to not transmit in CW? In CW switched to send or keyed with a key I get 60ma idle IP, but thats it. I cannot get it to trasmit at all in any of those modes (TUN,CW,FSK). Only get idle IP.

> >

> > I will remove and clean the boards in the display unit. However the display stopping at 3.950 condition only happens on that band. Works normal on all other bands. As well it does not recieve any higher than the display reads. The reciever stops as well as the display. Again this only happens on this one band.

> >

> > Thanks for the help. I am looking forward to more info and getting this old girl figured out. Using it on SSB has been a real treat.

> >

> > Thanks again!

> >

> > 73 Rob

> >

> > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:

> >

> > >

> >

> > > I suspect the problem with the digital display is the COUNTER UNIT need cleaning.

> >

> > >

> >

> > > To do this you will have to remove the COUNTER UNIT from the 820. This is easily done.

> >

> > >

> >

> > > 1. Remove the power cable from the rear of the 820

> >

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> > > 2. Remove the top and bottom covers

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> > > 3. Turn the 820 up on its right side (final cage against the table)

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> > > 4. Locate the COUNTER UNIT and on the bottom of the COUNTER UNIT, remove the edge connector. Remove the multi wire plug on the top of the COUNTER UNIT.

> >

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> > > 5. Loosen the COUNTER UNIT mounting screw and gently lift the COUNTER UNIT from the 820.

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> > > 6. Remove the outer cover from the COUNTER UNIT and note there are 2 PC boards inside the metal enclosure.

> >

> > >

> >

> > > 7. Loosen the mounting screws to one PC board and remove it from the metal enclosure. You will notice a set of fixed pins mounted to the metal enclosure. Give each pin socket on the PC board a shot of contact cleaner. Insert the board onto the fixed pins a number of times then secure the PC board onto the metal enclosure and tighten the mounting screws.

> >

> > >

> >

> > > 8. Do the same thing to the other PC board as stated in step 7.

> >

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> >

> > > 9. When completed, use canned air to remove any excess contact cleaner and let the PC board sit for 3 to 5 minutes.

> >

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> >

> > > 10. Install the COUNTER UNIT back into the 820 in the "reverse" order you removed it.

> >

> > >

> >

> > > 11. Give the bottom edge connector a short of contact cleaner and connect the plug to the bottom edge a number of times then full seat the connector onto the counter edge, ensuring it seats flat and not at an angle. Use canned air to remove any excess contact cleaner.

> >

> > >

> >

> > > 12. Give the multi wire plug a shot of contact cleaner and insert then remove the plug a number of time to the top pins on the COUNTER UNIT then seat the plug firmly onto the pins. Use canned air to remove any excess contact cleaner.

> >

> > >

> >

> > > Let the 820 sit for a few minutes then reconnect the power cable, speaker, and power up the 820. Check the display, it should, providing nothing else is wrong, display the correct frequency and it should change according to the VFO setting.

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> > >

> >

> > > 73s

> >

> > > Mike W5RKL

> >

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> > > --- In TS-520_820_530_830@yahoogroups.com, "Andrea" <andrealiverani@> wrote:

> >

> > > >

> >

> > > > A question: when the display shows 9000 the vfo light is on?

> >

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> > > > --- In TS-520_820_530_830@yahoogroups.com, "k4mau" <kg4ggx@> wrote:

> >

> > > > >

> >

> > > > > Hello to the group

> >

> > > > > I'm new hear and am looking forward to learning about these wonderful radios. My current station is a FT-1000MP MK V Field, and AL80B. Just some back ground on me. I've had this station set up for 7 years or so.

> >

> > > > > I just got a TS-820S a few days ago. I was aware of the problems from the start so it's a project rig.

> >

> > > > > Here are the prblems. In TUN, CW and FSK mode switched to send it shows 60 ma but no carrier output, and the display on the lower bands reads 9.000. On the higher bands in TUN, CW or FSK , and switched to send the display goes to 19.000 with 60ma and no output. I can tune up the final in USB and LSB by transmitting a modulated to into the mic. I get 100+ watts out, and have had it on hte air in SSB no problems. I just don't like tuning it up like this.

> >

> > > > > Also on 80 meters it will only go up to 3.953. The VFO can still be turned on higher, but it not changing frequency. I works fine on all other bands.

> >

> > > > > Any suggestions and help is appreciated.

> >

> > > > > Thanks to all.

> >

> > > > > Rob K4MAU

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> > _____

> > Giochi, radio, TV... E tutti i tuoi amici. Cercali su Messenger

> > http://www.messenger.it/home_comunica.aspx

> >

> > [Non-text portions of this message have been removed]

> >

>

_____
Scopri tuttele novit? di Internet Explorer 8
http://www.microsoft.com/italy/windows/internet-explorer/msn.aspx

[Non-text portions of this message have been removed]

23843. RE: [TS-520_820_530_830] 830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-09 10:35:20 UTC
From: Andrea Liverani
Topic: 23784 Message: 23843

In my 820 is fault... the mhz digit disappears but tuning che radio vfo also changes the frequency on the display even if dh is pressed.

To: TS-520_820_530_830@yahoogroups.com
From: k5lcl@...
Date: Wed, 9 Dec 2009 03:19:46 -0600
Subject: Re: [TS-520_820_530_830] 830S

The DH button works as stated for the TS-820. It MAY not drop the first digit or two for the 830, I don't know. But if the button is out, the digital display SHOULD change. Pressed in, it locks the display, but not the tuning capability of the VFO. The DH button is just there to help you remember where you LEFT in case you want to go back there the next time. It's really not much use.

----- Original Message -----

From: Gmail - Kevin, Natalia, Stacey & Rochelle

To: TS-520_820_530_830@yahoogroups.com

Sent: Monday, December 07, 2009 4:19 PM

Subject: Re: [TS-520_820_530_830] 830S

Question,

My TS-830S with the DH button in locks the frequency, Turning the dial stops the display, but the frequency changes as I can hear it sweep.

I still have, in the case of the suggestion below, 14.027.6, does not drop the 14. Is there something else that I am doing wrong?

Kevin, ZL1KFM.

----- Original Message -----

From: k5lcl@...

To: TS-520_820_530_830@yahoogroups.com

Sent: Monday, December 07, 2009 8:13 PM

Subject: Re: [TS-520_820_530_830] 830S

The "DH" button isn't "pressed in"/on is it? If it is in, the digital display will drop the MHz number, and show 027.6, instead of 14.027.6. The radio will still tune to other frequencies, but the digital reading will stay the same.

----- Original Message -----

From: Victor

To: TS-520_820_530_830@yahoogroups.com

Sent: Sunday, December 06, 2009 3:55 AM

Subject: [TS-520_820_530_830] 830S

Hi all

I'm new to group and immediately have a problem.

Recently acquired a TS830S and through my stupidity immediately manufactured a fault.

End result is this:-

The digital readout doesn't work.

If I am on 20m the digital readout shows 13.500.0 and stays there even though the Rx still tunes across the band. Not only that but if I change bands to 40m the readout still shows 13.500.0. But if I switch off and then back on the readout now shows 6.500.0 but again doesn't move and so on and so on.

Also the top relay chatters when I switch from CW to SSb.

Now my stupidity. I had tuned the rig (at this point working OK) with the meter in IC position - tuned for dip. I then moved the meter to RF and was disturbed. Returning a short while later I forgot I had moved the meter to RF and spent quite a long while trying to dip it!! After that the display packed in functioning correctly.

It tunes OK using the analogue so I guess the VFO board is OK. I think that leaves me with the PLL and counter board.

I haven't a clue where to start so can anyone help, please.

Vic Waddington

G4JSS

(First class donkey)

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I tuoi amici sempre a portata di clic, sul nuovo Web Messenger
http://www.windowslive.it/foto.aspx

[Non-text portions of this message have been removed]

23844. RE: [TS-520_820_530_830] 1 radio 2 problems!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-09 08:28:46 UTC
From: Andrea Liverani
Topic: 23824 Message: 23844

yesterday i spent the evening trying to troubleshoot problem number 1
low power in 20 meters band.
I havent' solved the problem but i had some indications....

First of all i noticed that if i move the band switch while i am trasmitting
i see fluctuations in power and sometimes the power rises to 80-90 watt
as it should be.
If i Switch the grids off and i measure the alc signal while i am moving
the band switch there are no fluctuations. So i suppose that the section
of the band switch involved is the section inside the pa compartment
also because when i mode the band switch while in trasmission i can
ear some eletric noise inside the PA compartment as something is
arcing....
A strage thing is that i have the dip with the plate pointing 28mhz and
not 14 mhz as i would expect... the other bands are OK...

So maybe there is a problem in the back section of the band switch but
also a misalignment of something?

Anyway i have cleaned as best i could the back section of the rotary switch
but the position is difficult to reach and maybe i have to dismantle the pa cage
to make a good job , what do you think??

To: ts-520_820_530_830@yahoogroups.com
From: andrealiverani@...
Date: Tue, 8 Dec 2009 20:25:12 +0000
Subject: [TS-520_820_530_830] 1 radio 2 problems!

I am still trying to fix my 820S i have restored cosmetically and now i must fix the
remaining problems.

1) i have low power only in 20 meters 65W instead of 100-110 i have elsewhere. The strange
thing is

that i obtain this power with load very advanced and plate on the 28 mhz position... and 14
mhz is just

28/2 .... strange isn't' it?

I have realigned the tx to peak alc at 14.175 as reported in the manual i have changed
final tubes

the 12by7a and cleaned the band switch but i have still the problem.

2) i have no 100hz reading on the frequency counter at all the last digid is off all the
time , all the other segments works fine.

Some advice?

---

25 Gigabyte per le tue foto online

http://www.windowslive.it/foto.aspx

[Non-text portions of this message have been removed]

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25 Gigabyte per le tue foto online
http://www.windowslive.it/foto.aspx

[Non-text portions of this message have been removed]

23845. Re: TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-09 13:08:24 UTC
From: k4mau
Topic: 23783 Message: 23845

Mike
I realized I do have a freq counter in my volt/ohm meter. I checked the voltage on the VF AVR,it was 9.2, 9.2 and 3.3. I will check the freq out put from the VFO some time today. Chuck thanks for the input. I am thinking like you on CAR 2. However I'm certainly not a tech. Just a wanta be I guess. If I didn't have you guys helping me I'd be lost. Any suggestion on how to check CAR 2 out put will be appreieciated very much.
Thanks
Rob

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Rob,
>
> All of the Kenwood hybrid VFOs operate on a specific range of frequencies. The 520 and 820 VFOs operate between 4.999Mhz and 5.500Mhz on ALL band. The 530 and 830, however, operate between 5.400Mhz and 6.100Mhz.
>
> I assume the VFO tunes smoothly, no jumpy or erratic behavior occurs when tuning the VFO. If that's true then the VFOs working fine. If you have a frequency counter, pull the RCA plug cable from the rear of the VFO and connect the VFO output RCA socket to the frequency counter. Tune the VFO from the low end, 0.0 to the high end 500. The counter should display 5.500Mhz at the low end and 4.999Mhz or 5.000Mhz on the top end of the dial. If it does then, again, the VFO is fine.
>
> Check the 9VDC supply on the AF AVR UNIT. Remove the top and bottom cover, turn the 820 upside down with the front panel facing you. The AF AVR UNIT is located directly below the VFO. The board 2 plugs along the front panel, AF1 and AF2. AF1 is on the left and AF2 on the right. Pins are numbered right to left, 1, 2, 3, 4, 5, and 6.
>
> Connect you DC volt meter to AF1 pin 1 or 2. The voltage should be 9VDC If it is not then adjust VR4, in the middle of the board (not the large plastic pot, that's the RIT pot) so the volt meter reads 9VDC +/- .5VDC.
>
> Next, move the DC probe to pin 6 on AF2. The voltage should be 3.3VDC. If it is not, adjust VR1, located between AF1 and AF2 plug, so the meter reads 3.3VDC +/- .5VDC.
>
> The hybrids have a tendency to have dirty plugs on the PC boards. Also, the pins and plus do not always make good connections which leads to other problems. I had a problem where my 820 appeared, visually, to be working fine but, no receive and no transmit. The problem was one or more of the pins on a number of plugs that were simply not making good contact. I fed the 8Mhz IF signal to the IF board and I could hear it fine but nothing on transmit or receive. I remove all plugs, cleaned them, and put them all back onto their respective pins then ensured all board mounting screws were tight and it worked. I can't say for sure this will fix your problem, just a thought from my experience.
>

> The VFO in ALL of the hybrids are powered from the 9VDC supply. Any instability in the 9VDC supply will affect the VFO's stability.
>
> Drift in the 820 can be traced to the 9VDC supply and typically is caused by aging D5 (6 volt zener) and Q7 (2SA496Y) regulator, both on the AF AVR board. Replacing both D5 and Q7 will significantly improve the drift in the 820. You can find new Q7s at the following website.
>
> http://www.electronicsurplus.com/ccp78762-to-220-pnp-transistor-2sa496-y-13844.htm
>
> I bought 10 of them and replace Q7 and D5. The drift was significantly reduced to well within factory specs.
>
> You can replace D5 with any 6.1 volt 1/2 watt zener. Mouser sells them cheap.
>
> I would do voltage checks on the driver and final tubes.
>
> There is a high resolution schematic with voltages you can read at n6wk's website.
>
> www.n6wk.com/kenwood/
>
> Scroll down and click on the 820 high resolution schematic. If you have already done this, disregard this recommendation.
>
> 73s
> Mike W5RKL
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "k4mau" <kg4ggx@> wrote:
> >
> > Hi Andrea
> > Thanks much for your help also. I do plan to remove and clean the VFO. However it does tune thru all other bands fine. I guess the last 50 kc of 75 meters isn't a big deal, but it does indicate a problem with that band. I have compared it with my other radios both TX and RX, and do know the 820 does indeed stop at 3.955 It's not just the display. My thought is if the VFO tunes all the other bands completely to the top end the VFO is working correctly. That leads me to think the problem is somewhere else with the 3.5 MHZ band. Any thought ae greatly appreciated.
> > Thanks
> > Rob
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, Andrea Liverani <andrealiverani@> wrote:
> > >
> > >
> > > Hi i know ... my 820 was really worse than yours but a step to another is returning in life.
> > > The resistors cure only the tune problem but it's necessary you measure the resistor

near
> > > r5 and r6 to see if you find an open resistor.
> > > for the frequency counter i had the "9000" issue before cleaning it. The 3950 issue is not
> > > a really problem as the 80 meters band stops before...
> > >
> > > To: TS-520_820_530_830@yahoogroups.com
> > > From: kg4ggx@
> > > Date: Tue, 8 Dec 2009 14:26:54 +0000
> > > Subject: [TS-520_820_530_830] Re: TS 820 TUN and CW not working
> > >
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get 60ma idle IP, but thats it. I cannot get it to trasmit at all in any of those modes (TUN,CW,FSK). Only get idle IP.
> > >
> > > I will remove and clean the boards in the display unit. However the display stopping at 3.950 condition only happens on that band. Works normal on all other bands. As well it does not recieve any higher than the display reads. The reciever stops as well as the display. Again this only happens on this one band.
> > >
> > > Thanks for the help. I am looking forward to more info and getting this old girl figured out. Using it on SSB has been a real treat.
> > >
> > > Thanks again!
> > >
> > > 73 Rob
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > >
> > > >
> > >
> > > > I suspect the problem with the digital display is the COUNTER UNIT need cleaning.
> > >
> > > >
> > >
> > > > To do this you will have to remove the COUNTER UNIT from the 820. This is easily done.
> > >
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> > >
> > > > 1. Remove the power cable from the rear of the 820
> > >
> > > >
> > >
> > > > 2. Remove the top and bottom covers
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> > > >
> > >
> > > > 3. Turn the 820 up on its right side (final cage against the table)
> > >
> > > >
> > >
> > > > 4. Locate the COUNTER UNIT and on the bottom of the COUNTER UNIT, remove the edge connector. Remove the multi wire plug on the top of the COUNTER UNIT.
> > >
> > > >
> > >
> > > > 5. Loosen the COUNTER UNIT mounting screw and gently lift the COUNTER UNIT from the 820.
> > >
> > > >
> > >
> > > > 6. Remove the outer cover from the COUNTER UNIT and note there are 2 PC boards

inside the metal enclosure.
> > >
> > > >
> > >
> > > > 7. Loosen the mounting screws to one PC board and remove it from the metal enclosure. You will notice a set of fixed pins mounted to the metal enclosure. Give each pin socket on the PC board a shot of contact cleaner. Insert the board onto the fixed pins a number of times then secure the PC board onto the metal enclosure and tighten the mounting screws.
> > >
> > > >
> > >
> > > > 8. Do the same thing to the other PC board as stated in step 7.
> > >
> > > >
> > >
> > > > 9. When completed, use canned air to remove any excess contact cleaner and let the PC board sit for 3 to 5 minutes.
> > >
> > > >
> > >
> > > > 10. Install the COUNTER UNIT back into the 820 in the "reverse" order you removed it.
> > >
> > > >
> > >
> > > > 11. Give the bottom edge connector a short of contact cleaner and connect the plug to the bottom edge a number of times then full seat the connector onto the counter edge, ensuring it seats flat and not at an angle. Use canned air to remove any excess contact cleaner.
> > >
> > > >
> > >
> > > > 12. Give the multi wire plug a shot of contact cleaner and insert then remove the plug a number of time to the top pins on the COUNTER UNIT then seat the plug firmly onto the pins. Use canned air to remove any excess contact cleaner.
> > >
> > > >
> > >
> > > > Let the 820 sit for a few minutes then reconnect the power cable, speaker, and power up the 820. Check the display, it should, providing nothing else is wrong, display the correct frequency and it should change according to the VFO setting.
> > >
> > > >
> > >
> > > > 73s
> > >
> > > > Mike W5RKL
> > >
> > > >
> > >

> > > >
> > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "Andrea" <andrealiverani@> wrote:
> > >
> > > > > >
> > >
> > > > > A question: when the display shows 9000 the vfo light is on?
> > >
> > > > > >
> > >
> > > > > >
> > >
> > > > > >
> > >
> > > > > >
> > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com, "k4mau" <kg4ggx@> wrote:
> > >
> > > > > > >
> > >
> > > > > > Hello to the group
> > >
> > > > > > I'm new hear and am looking forward to learning about these wonderful radios. My current station is a FT-1000MP MK V Field, and AL80B. Just some back ground on me. I've had this station set up for 7 years or so.
> > >
> > > > > > I just got a TS-820S a few days ago. I was aware of the problems from the start so it's a project rig.
> > >
> > > > > > Here are the prblems. In TUN, CW and FSK mode switched to send it shows 60 ma but no carrier output, and the display on the lower bands reads 9.000. On the higher bands in TUN, CW or FSK , and switched to send the display goes to 19.000 with 60ma and no output. I can tune up the final in USB and LSB by transmitting a modulated to into the mic. I get 100+ watts out, and have had it on hte air in SSB no problems. I just don't like tuning it up like this.
> > >
> > > > > > Also on 80 meters it will only go up to 3.953. The VFO can still be turned on higher, but it not changing frequency. I works fine on all other bands.
> > >
> > > > > > Any suggestions and help is appreciated.
> > >
> > > > > > Thanks to all.
> > >
> > > > > > Rob K4MAU
> > >
> > > > > > >
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> > >
> > > _____
> > > Giochi, radio, TV... E tutti i tuoi amici. Cercali su Messenger
> > > http://www.messenger.it/home_comunica.aspx
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
>

23846. Re: [TS-520_820_530_830] Re: TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-09 14:25:00 UTC
From: kg4ggx@aol.com
Topic: 23783 Message: 23846

Mike
Thanks for all of your time. I removed and disassembled and cleaned both units last nite. No change in anything. Any suggestions on how I can check the CAR 2 to see if it is functioning?
Thanks so much!
Rob

[Non-text portions of this message have been removed]

23847. Re: [TS-520_820_530_830] Re: TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-09 16:26:29 UTC
From: n6wk@n6wk.com
Topic: 23783 Message: 23847

Another point that I have run into too many times is the little metal terminals inside the plastic connectors get old and the springy part breaks. when that happens, the terminal no longer makes a good if any connection. This seems to be especially true on the 820's for some reason

73's
Gordon
N6WK

w5rkl wrote:
>
>
>
>
> Glad to see more information is surfacing which helps in suggestions.
>
> Someone said it could be the CAR UNIT. That's a possibility that
> should not be over looked. In addition to the CAR UNIT, I also suggest
> the PLL UNIT.
>
> I recommend removing both the PLL and the CAR UNIT enclosures, one at
> a time, and clean each one. This means not only to clean the pins on
> the outer edge but to remove the 2 PC boards inside the enclosures and
> clean the pins and sockets on each board.
>
> Remove each enclosure, one at a time, then remove the cover. Remove
> each PC board, clean the sockets and pins, then put the board back
> into the enclosure, secured with the mounting hardware. Do the same to
> the other board. Once completed, reinstall the unit back into the 820.
> Clean each plug and pin on the edge of the unit then install the plugs
> back onto the unit.
>
> Do the same thing with the unit.
>
> Once this has been done, check for proper operation.
>
> 73s
> Mike W5RKL
>
>

23848. Re: [TS-520_820_530_830] 6146A

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-09 17:21:31 UTC
From: george dumond
Topic: 23819 Message: 23848

Hi dick I'm intrested the name here is George DuMond address is 3999 Big Sugar Creek RD Pineville Mo.call sign K0gwd. would 10.00 be ok?

--- On Tue, 12/8/09, Dick Merryman <dicko@...> wrote:

From: Dick Merryman <dicko@...>
Subject: [TS-520_820_530_830] 6146A
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, December 8, 2009, 12:47 PM

I have a NOS 6146A that was sent to me by mistake in a 6146B box. Anybody need it? The price is right - free. A couple of bucks to cover shipping appreciated but not required. Note that this tube will not work in a Kenwood hybrid.

-Dick-
N3XRU

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23849. Re: TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-09 17:22:54 UTC
From: w5rkl
Topic: 23783 Message: 23849

Chuck and Rob,

If cleaning the PLL and CAR UNITs does not improve or fix your problem, I recommend checking the alignment of the CAR UNIT. The CAR UNIT alignment is covered in the service manual on page 45. CAR UNIT output level adjustments are measured on the CAR UNIT plug CJ3 pins 2 and 5, .3 volts. You will need an RF probe or o'scope to measure the levels on pins 2 and 5.

The CAR UNIT not only provides the transmit carrier generator signal for all modes but also the "BFO" signal in receive.

The CAR UNIT has 2 boards, CAR-1 and CAR-2.

CAR-1 has 2 crystal, X1 (8828.5Khz LSB) and X2 (8831.5Khz USB)
CAR-2 has 1 crystal, X1 (8830.7Khz CW/TUNE)

CAR-1 provides ALL receive mode BFO signals and USB and LSB transmit carrier generator signals to the IF UNIT. CW, TUNE, and FSK transmit mode carrier generator signals are provided by CAR-2.

As I stated above, CAR-2 provides a carrier generator signal for CW, TUNE, and FSK transmit ONLY. CAR-2 does not provide any receive support signals, only transmit and only in CW, TUNE, and FSK modes.

The FSK jumper placement on pins CJ-1 of the CAR UNIT determines the "initial" frequency "shift", narrow or wide. The actual FSK frequency "shift" is determined by the Jumper placement AND the adjustments of TC-3 for Wide shift (850Hz) or TC-2 for Narrow (170Hz). Again, CAR-2 does not provide anything in receive, only transmit.

It is quite possible a previous owner has improperly adjusted TC-1 on the CAR-2. An improperly adjusted TC-1 can lead to the oscillator not oscillating OR a CW-T signal that falls too close to the edge of the crystal filter resulting in very low, if any, 8Mhz signal appearing at the output of the filter. Very low or no signal at the output of the filter can lead to the problem you are experiencing. A frequency counter connected to TP5 on the IF UNIT will display the CAR-2 crystal frequency. It should be 8830.7Khz on CW/TUNE transmit. If there is no signal at TP5 on the IF UNIT from the CAR-2 oscillator in CW and TUNE mode transmit OR the frequency is way off frequency, adjust TC-1 on CAR-2 of the CAR UNIT until the frequency is 8830.7Khz on TP5 of the IF UNIT with the 820 keyed in CW or TUNE mode. At that point you can then make the appropriate alignment adjustments on page 45 of the service manual.

Remember, you're not the original owner, you don't know what any previous owner has done, and you don't know if any modifications have been done to the 820. A previous owner may have started adjusting caps, pots, etc, not knowing what they are doing which could easily lead up to the problems you are experiencing. Clean the radio then check the alignment, that's the best thing to do right now. At this point, I am not sure any of the crystals are bad on the PLL or CAR UNITs. Alignment after cleaning will determine if any are bad. If you

find one bad you can order replacement from International Crystals in Oklahoma City, Oklahoma.

http://www.icmfg.com/hamradio-manufacturers.html

Sorry for being so long on this but it's important to understand what circuits do what and when. This will help you decide which place to start with and what to look for.

73s
Mike W5RKL

23850. Re: TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-09 17:34:23 UTC
From: w5rkl
Topic: 23783 Message: 23850

Good point Gordon, I agree. That's what was wrong with my 820 but the symptoms were much worse then Rob's. I lost both transmit and receive on ALL bands and ALL modes. The 820 looked perfect, normal displays, 60ma idling current, etc but no transmit and no receive. It works fine now, must have hit the right plug.

Rob, you're going to find the problem, don't get frustrated.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, n6wk@... wrote:
>
> Another point that I have run into too many times is the little metal
> terminals inside the plastic connectors get old and the springy part breaks.
> when that happens, the terminal no longer makes a good if any connection.
> This seems to be especially true on the 820's for some reason
>
> 73's
> Gordon
> N6WK
>
>
>
> w5rkl wrote:
> >
> >
> >
> >
> > Glad to see more information is surfacing which helps in suggestions.
> >
> > Someone said it could be the CAR UNIT. That's a possibility that
> > should not be over looked. In addition to the CAR UNIT, I also suggest
> > the PLL UNIT.
> >
> > I recommend removing both the PLL and the CAR UNIT enclosures, one at
> > a time, and clean each one. This means not only to clean the pins on
> > the outer edge but to remove the 2 PC boards inside the enclosures and
> > clean the pins and sockets on each board.
> >
> > Remove each enclosure, one at a time, then remove the cover. Remove
> > each PC board, clean the sockets and pins, then put the board back
> > into the enclosure, secured with the mounting hardware. Do the same to
> > the other board. Once completed, reinstall the unit back into the 820.
> > Clean each plug and pin on the edge of the unit then install the plugs
> > back onto the unit.
> >

> > Do the same thing with the unit.
> >
> > Once this has been done, check for proper operation.
> >
> > 73s
> > Mike W5RKL
> >
> >
>

23851. Re: [TS-520_820_530_830] Re: TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-09 17:31:21 UTC
From: kg4ggx@aol.com
Topic: 23783 Message: 23851

Hi Mike
No need to be sorry for the length and detail.. This is exactly the input
I need. Thanks very much!
Ok , not having a RF probe I wil try to measure TP5 and see what if
anything I get. Thank you very very much.
73
Rob

[Non-text portions of this message have been removed]

23852. Re: TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-09 18:25:40 UTC
From: w5rkl
Topic: 23783 Message: 23852

Rob,

If you have an all band receiver/transceiver such as an FT-757GX or FT-857D, etc, tune the receiver to 8831.7Khz (8.831.7Mhz) and listen for the CW-T carrier signal. You may have to tune the all band receive a bit to find it. If the 8Mhs CAR-2 oscillator is working you should have no trouble hearing it in the separate all band receiver tuned to 8.831.7Mhz. If you can't find it, tune the separate receiver to 8.831.7Mhz, attach a short piece of wire to the all band receiver and lay the other end close to the CAR UNIT in the 820. Tune the all band receiver either side of 8.831.7Mhz and you should hear the 820's CW-T's signal if the oscillator is working. The 820 must be in CW transmit to hear the signal.

This simple test will tell if the CAR-2 CW oscillator is working in CW transmit. If it is working, you hear the signal, you can also get a ball park estimation of approximately how far off frequency the CAR-2 CW-T signal actually is. Remember, the 820 must be in TUNE or CW mode and in transmit for CAR-2 oscillator to be selected.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, kg4ggx@... wrote:
>
> Hi Mike
> No need to be sorry for the length and detail.. This is exactly the input
> I need. Thanks very much!
> Ok , not having a RF probe I wil try to measure TP5 and see what if
> anything I get. Thank you very very much.
> 73
> Rob
>
>
> [Non-text portions of this message have been removed]
>

23853. RE: [TS-520_820_530_830] 6146A

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-09 18:34:16 UTC
From: Dick Merryman
Topic: 23819 Message: 23853

Too late, George, sorry its gone.

73,

-Dick-
N3XRU

_____

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of george dumond
Sent: Wednesday, December 09, 2009 9:22 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] 6146A

Hi dick I'm intrested the name here is George DuMond address is 3999 Big
Sugar Creek RD Pineville Mo.call sign K0gwd. would 10.00 be ok?

--- On Tue, 12/8/09, Dick Merryman <dicko@wormhole.
<mailto:dicko%40wormhole.com> com> wrote:

From: Dick Merryman <dicko@wormhole. <mailto:dicko%40wormhole.com> com>
Subject: [TS-520_820_530_830] 6146A
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
Date: Tuesday, December 8, 2009, 12:47 PM

I have a NOS 6146A that was sent to me by mistake in a 6146B box. Anybody
need it? The price is right - free. A couple of bucks to cover shipping
appreciated but not required. Note that this tube will not work in a
Kenwood hybrid.

-Dick-
N3XRU

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23854. Re: [TS-520_820_530_830] VFO-230 For Sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-09 18:52:14 UTC
From: probe
Topic: 11863 Message: 23854

Gordon:

Been thinking of swapping out the 3sk41 's for the nte222 on my ts-520. However the nte222 sells for $12 to $15 each. This seems high to me. Do you have a lower cost source? Also do you need to do some tweaking? Or do you just swap 'em in and good to go?
Thanks, Steve wz7e

----- Original Message -----
From: n6wk@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, December 06, 2009 5:23 PM
Subject: Re: [TS-520_820_530_830] VFO-230 For Sale

Hi Jerry,

Use the NTE-222. I use them all the time and they work
perfectly.
I even keep a few in the drawer since they are used so commonly in these
old hybrids.
They are pretty inexpensive too. If you have problem locating some, let
me know and I can mail whatever you need to you.
73,
Gordon
N6WK

Jerry Keller wrote:
>
>
> Hi, Gordon.... would you have any idea where I can get a dual-gate mosfet
> 3SK41 ?... (Q3 on my TS-520 RF board) I've tried Parts Store, Jameco,
> Mouser, and Digikey... no luck....
> 73, Jerry K3BZ
>
> ----- Original Message -----
> From: "n6wk_skcc3" <n6wk@... <mailto:n6wk%40n6wk.com>>
> To: <TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>>
> Sent: Sunday, December 06, 2009 2:29 PM
> Subject: [TS-520_820_530_830] VFO-230 For Sale
>
> >I am selling a Nice working VFO-230 with Original Cable.
> > I checked it out and it appears to function great. The only cosmetic
> thing
> > I see is that there is a small area on the top of the front Bezel where
> > some of the paint has rubbed off.
> > I can provide pictures if requested.

> > I am asking $200.00 plus shipping.
> > If interested, please contact me OFF the list
> > n6wk at n6wk.com
> >
> > Thanks,
> > Gordon
> > N6WK
> >
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> >
> > Yahoo! Groups Links
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23855. L41 Tunig coil for TS830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-09 18:50:15 UTC
From: pauloserafini
Topic: 23855 Message: 23855

I need L41 tuning coil ANT 1.5M in RF Unit for TS 830.
Someone has to sell?

Paulo
PY3 BKT

23856. RE: [TS-520_820_530_830] VFO-230 For Sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-09 18:56:55 UTC
From: Greg Anders
Topic: 11863 Message: 23856

I just bought a pack of NTE222's from Mouser and I thought they were a little cheaper. Like $8-10.00 ea.

FYI

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of probe
Sent: Wednesday, December 09, 2009 10:52 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] VFO-230 For Sale

Gordon:

Been thinking of swapping out the 3sk41 's for the nte222 on my ts-520. However the nte222 sells for $12 to $15 each. This seems high to me. Do you have a lower cost source? Also do you need to do some tweaking? Or do you just swap 'em in and good to go?
Thanks, Steve wz7e

----- Original Message -----
From: n6wk@...<mailto:n6wk%40n6wk.com>
To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
Sent: Sunday, December 06, 2009 5:23 PM
Subject: Re: [TS-520_820_530_830] VFO-230 For Sale

Hi Jerry,

Use the NTE-222. I use them all the time and they work
perfectly.
I even keep a few in the drawer since they are used so commonly in these
old hybrids.
They are pretty inexpensive too. If you have problem locating some, let
me know and I can mail whatever you need to you.
73,
Gordon
N6WK

Jerry Keller wrote:
>
>
> Hi, Gordon.... would you have any idea where I can get a dual-gate mosfet
> 3SK41 ?... (Q3 on my TS-520 RF board) I've tried Parts Store, Jameco,
> Mouser, and Digikey... no luck....
> 73, Jerry K3BZ
>

> ----- Original Message -----
> From: "n6wk_skcc3" <n6wk@...<mailto:n6wk%40n6wk.com> <mailto:n6wk%40n6wk.com>>
> To: <TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> <mailto:TS-520_820_530_830%40yahoogroups.com>>
> Sent: Sunday, December 06, 2009 2:29 PM
> Subject: [TS-520_820_530_830] VFO-230 For Sale
>
> >I am selling a Nice working VFO-230 with Original Cable.
> > I checked it out and it appears to function great. The only cosmetic
> thing
> > I see is that there is a small area on the top of the front Bezel where
> > some of the paint has rubbed off.
> > I can provide pictures if requested.
> > I am asking $200.00 plus shipping.
> > If interested, please contact me OFF the list
> > n6wk at n6wk.com
> >
> > Thanks,
> > Gordon
> > N6WK
> >
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> > Yahoo! Groups Links
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[Non-text portions of this message have been removed]

23858. Re: [TS-520_820_530_830] L41 Tunig coil for TS830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-09 19:05:40 UTC
From: n6wk@n6wk.com
Topic: 23855 Message: 23858

Paulo,
They are very easy to re-wind.
They are almost impossible to find.
They short out very often due to high Static electricity or a strong close by RF signal.
73,
Gordon
N6WK

pauloserafini wrote:
>
>
> I need L41 tuning coil ANT 1.5M in RF Unit for TS 830.
> Someone has to sell?
>
> Paulo
> PY3 BKT
>
>

23859. Re: VFO-230 For Sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-09 19:08:09 UTC
From: n6wk_skcc3
Topic: 11863 Message: 23859

I have always just swapped them out, done a quick alignment and it's good to go.
I paid $10.00 each for these plus tax.
If I can get over to Fry's electronics, they often have them cheaper. I think it's because they buy in high volume.
Christmas time is NOT the best time to go to Fry's though. It is a ZOO. hi hi. I know I can buy NTE37's from Frys for $3.95 yet my other electronics store gets almost $8.00 for them.
The guy at my regular store told me he can't even buy them from NTE for what Fry's sells them for.

73,
Gordon
N6WK

23860. Re: VFO-230 For Sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-09 19:10:50 UTC
From: n6wk_skcc3
Topic: 11863 Message: 23860

I just checked and Mouser wants $12.20 each plus shipping.

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, Greg Anders <greg.anders@...> wrote:
>
> I just bought a pack of NTE222's from Mouser and I thought they were a little cheaper. Like $8-10.00 ea.
>
> FYI
>
> Greg
> KG6YV
>
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of probe
> Sent: Wednesday, December 09, 2009 10:52 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] VFO-230 For Sale
>
>
>
> Gordon:
>
> Been thinking of swapping out the 3sk41 's for the nte222 on my ts-520. However the nte222 sells for $12 to $15 each. This seems high to me. Do you have a lower cost source? Also do you need to do some tweaking? Or do you just swap 'em in and good to go?
> Thanks, Steve wz7e
>
> ----- Original Message -----
> From: n6wk@...<mailto:n6wk%40n6wk.com>
> To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Sunday, December 06, 2009 5:23 PM
> Subject: Re: [TS-520_820_530_830] VFO-230 For Sale
>
> Hi Jerry,
>
> Use the NTE-222. I use them all the time and they work
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> I even keep a few in the drawer since they are used so commonly in these
> old hybrids.
> They are pretty inexpensive too. If you have problem locating some, let
> me know and I can mail whatever you need to you.
> 73,

> Gordon
> N6WK
>
> Jerry Keller wrote:
> >
> >
> > Hi, Gordon.... would you have any idea where I can get a dual-gate mosfet
> > 3SK41 ?... (Q3 on my TS-520 RF board) I've tried Parts Store, Jameco,
> > Mouser, and Digikey... no luck....
> > 73, Jerry K3BZ
> >
> > ----- Original Message -----
> > From: "n6wk_skcc3" <n6wk@...<mailto:n6wk%40n6wk.com> <mailto:n6wk%40n6wk.com>>
> > To: <TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
> > <mailto:TS-520_820_530_830%40yahoogroups.com>>
> > Sent: Sunday, December 06, 2009 2:29 PM
> > Subject: [TS-520_820_530_830] VFO-230 For Sale
> >
> > >I am selling a Nice working VFO-230 with Original Cable.
> > > I checked it out and it appears to function great. The only cosmetic
> > thing
> > > I see is that there is a small area on the top of the front Bezel where
> > > some of the paint has rubbed off.
> > > I can provide pictures if requested.
> > > I am asking $200.00 plus shipping.
> > > If interested, please contact me OFF the list
> > > n6wk at n6wk.com
> > >
> > > Thanks,
> > > Gordon
> > > N6WK
> > >
> > >
> > >
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> > >
> > > ------------------------------------
> > >
> > > Yahoo! Groups Links
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> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]

>

23861. Re: [TS-520_820_530_830] Re: TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-09 19:11:35 UTC
From: kg4ggx@aol.com
Topic: 23783 Message: 23861

Mike
Ihad a freq of 8829 at TP 5 and when I switched to send it would drop out completely after about 3 seconds. T touched up T 1 and got it back. I now have TUN out put and CW out put! I can tune the PA in TUN mode. I don't have any way to measure the mV at TP 5. The service manual calls for 50 mV. I moved T 1 a few time back and forth and have it just enough from where it was to keep the signal in send. The service manual says to adjust TC 1, TC2, and TC3 to set the freq to 8830.700 and .530 and 8829.850 for FSK SPC etc. I tried to adjust TC 1, 2, and 3, but the freq didn't change. My VOM measures freq, but not down to the .000 range. So atleast I can tune the PA with the TUN mod now, and CW does transmit.
I checked the VFO out put, and it measures smoothly from 4.985 up to 5.505. The 75 meter band still stops at 3.955. I guess I will continue look at that .
Thanks much
Rob

[Non-text portions of this message have been removed]

23862. NTE222 or 40673 MOSFET

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-09 19:15:33 UTC
From: n6wk_skcc3
Topic: 23862 Message: 23862

This guy has the 40673 (nte222 cross) for only $5.98 each

http://www.angelfire.com/electronic2/index1/40673_dual_gate_mosfet.html

73,
Gordon
N6WK

23863. RE: [TS-520_820_530_830] NTE222 or 40673 MOSFET

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-09 19:25:42 UTC
From: Greg Anders
Topic: 23862 Message: 23863

Interesting, I didn't know they still make the 40673,

The 40673 is certainly an excellent mosfet..... I would use that any day. The only real advantage I saw in the NTE222 was its noise figure on higher frequencies. Its made to be used way up to at least 200mhz. For an HF rig the 40673 would be very good.

Greg

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n6wk_skcc3
Sent: Wednesday, December 09, 2009 11:16 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] NTE222 or 40673 MOSFET

This guy has the 40673 (nte222 cross) for only $5.98 each

http://www.angelfire.com/electronic2/index1/40673_dual_gate_mosfet.html

73,
Gordon
N6WK

[Non-text portions of this message have been removed]

23864. RE: [TS-520_820_530_830] NTE222 or 40673 MOSFET

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-09 19:31:34 UTC
From: Greg Anders
Topic: 23862 Message: 23864

BTW,

I forgot to mention that I have replaced all 3SK dual gate depletion mosfets in my TS520 (most of them in the receiver). The rf amplifier is now an NTE454 and the mixers and IF amplifiers are NTE222's. Subjectively speaking I notice a lower noise floor on 20,15 and 10M. No measuring equipment available to do a lab test. The radio does sound nice.

My next chore is to upgrade my TS-900s the same way. I bought enough components to do that ...

I feel like I did re-tubing my glow-bug radios,

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Greg Anders
Sent: Wednesday, December 09, 2009 11:26 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: RE: [TS-520_820_530_830] NTE222 or 40673 MOSFET

Interesting, I didn't know they still make the 40673,

The 40673 is certainly an excellent mosfet..... I would use that any day. The only real advantage I saw in the NTE222 was its noise figure on higher frequencies. Its made to be used way up to at least 200mhz. For an HF rig the 40673 would be very good.

Greg

From: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com> [mailto:TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of n6wk_skcc3
Sent: Wednesday, December 09, 2009 11:16 AM
To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
Subject: [TS-520_820_530_830] NTE222 or 40673 MOSFET

This guy has the 40673 (nte222 cross) for only $5.98 each

http://www.angelfire.com/electronic2/index1/40673_dual_gate_mosfet.html

73,
Gordon
N6WK

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23865. Re: TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-09 23:09:32 UTC
From: w5rkl
Topic: 23783 Message: 23865

Rob,

It is appearing, more and more, that a previous owner has messed up the 820's alignment in both the CAR and PLL units. From the changes in symptoms that are occurring, it sure points to a complete re-alignment may be required. This is not difficult to do. You can do most of it with a frequency counter and a volt meter, at least setting the CAR and PLL frequencies according to the service manual steps. If you have access to an o'scope, maybe a local ham has one, then you can use the scope in stead of an RF probe.

I am, however, some what confused as to what you mean when you say the VFO stops at 3.899. Does the VFO "physically" stop or can it be tuned beyond 3.899? If it can be tuned beyond 3.899, what happens, does the digital display go blank or what? I don't believe there is anything wrong with the digital display or the VFO, at least at this point as you have verified it tunes from 4.999Mhz to 5.500mhz which is the range it tunes on ALL bands and ALL modes. The VFO does not change frequencies when the band switch setting is changed.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, kg4ggx@... wrote:
>
> Mike
> Ihad a freq of 8829 at TP 5 and when I switched to send it would drop out
> completely after about 3 seconds. T touched up T 1 and got it back. I now
> have TUN out put and CW out put! I can tune the PA in TUN mode. I don't
> have any way to measure the mV at TP 5. The service manual calls for 50 mV. I
> moved T 1 a few time back and forth and have it just enough from where it
> was to keep the signal in send. The service manual says to adjust TC 1, TC2,
> and TC3 to set the freq to 8830.700 and .530 and 8829.850 for FSK SPC etc.
> I tried to adjust TC 1, 2, and 3, but the freq didn't change. My VOM
> measures freq, but not down to the .000 range. So atleast I can tune the PA with
> the TUN mod now, and CW does transmit.
> I checked the VFO out put, and it measures smoothly from 4.985 up to
> 5.505. The 75 meter band still stops at 3.955. I guess I will continue look at
> that .
> Thanks much
> Rob
>
>
> [Non-text portions of this message have been removed]
>

23866. Re: broke my TS-520S (with keyer maybe)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-09 22:36:49 UTC
From: Trav
Topic: 23835 Message: 23866

IT FIXED ITSELF!

I tried listening again this afternoon, three days after I broke it, and, lo and behold, it's receiving again. I haven't tried the transmit yet, but I'm pretty sure it'll work too.

I wasn't aware that Kenwood hybrids would fix themselves... nice feature!

Sorry to bother everyone. You can be sure I won't be trying that keyer again until I'm sure it's set up for "grid block" keying. I'll have to take off the cover and look around inside since it's a no-name keyer, but I won't use it until I'm sure it's right. Until then I'll just have to learn to use the straight key.

There's also the possibility that the keyer had nothing to do with it. I'm always running into that diagnostic problem when my computers inexplicably stop working. It could still be that the transmit won't run in CW mode for more than a couple of minutes, regardless of the keyer. I'll keep my eyes open for that eventuality too.

Anyway, thanks for listening. This looks like a good, active group and I'll be keeping up on the postings.

73
Jerry
KF7FOW

23867. Re: [TS-520_820_530_830] Re: TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-10 00:53:25 UTC
From: kg4ggx@aol.com
Topic: 23783 Message: 23867

Mike
My mistake or mis typing. The 75/80 meter band now will tune from 3.498 up to 4.014. The reciever seems on frq through out the entire band now. All other bands are fine also.. I found the VCO to read 6.000 volts on 80 meters, and 29 mhz also was 6.0. I went by the service manual and aligned the VCO to get all bands to 2.9 to 3.2v. Now that I have a carrier in TUN and CW, I followed the service manual and aligned the ANT and MIX coils as well as the drive coils.
At this point I can tune all bands from top to bottom, TUN and CW work so I can use them to tune the PA. The VFO is MUCH more stable now! After 15 minutes or so it doesn't drift at all that I can tell so far. I put it back on the antenna and it seems to be spot on freq as far as receive goes. I guess when I talk to some of my regulars they will let me know if the transmit is on freq. I think I may need to neutralize the PA, as it acts a little strange on 20 meters. I would think a throrough alignement would be good.. But at this time it's ALOT BETTER than it was!
THANKS FOR ALL THE HELP TO ALL THE GUYS!
73 Rob K4MAU

[Non-text portions of this message have been removed]

23868. Re: [TS-520_820_530_830] Re: TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-10 00:57:50 UTC
From: Chuck Goelz
Topic: 23783 Message: 23868

So glad to see that you made so much progress today, Rob!!

Enjoy the rig!

Cheers & 73,
Chuck WA3CEJ
----- Original Message -----
From: kg4ggx@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, December 09, 2009 7:53 PM
Subject: Re: [TS-520_820_530_830] Re: TS 820 TUN and CW not working

Mike
My mistake or mis typing. The 75/80 meter band now will tune from 3.498 up to 4.014. The reciever seems on frq through out the entire band now. All other bands are fine also.. I found the VCO to read 6.000 volts on 80 meters, and 29 mhz also was 6.0. I went by the service manual and aligned the VCO to get all bands to 2.9 to 3.2v. Now that I have a carrier in TUN and CW, I followed the service manual and aligned the ANT and MIX coils as well as the drive coils.
At this point I can tune all bands from top to bottom, TUN and CW work so I can use them to tune the PA. The VFO is MUCH more stable now! After 15 minutes or so it doesn't drift at all that I can tell so far. I put it back on the antenna and it seems to be spot on freq as far as receive goes. I guess when I talk to some of my regulars they will let me know if the transmit is on freq. I think I may need to neutralize the PA, as it acts a little strange on 20 meters. I would think a throrough alignement would be good..
But at this time it's ALOT BETTER than it was!
THANKS FOR ALL THE HELP TO ALL THE GUYS!
73 Rob K4MAU

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[Non-text portions of this message have been removed]

23869. Totally OT

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-10 01:23:27 UTC
From: boat.anchor
Topic: 23784 Message: 23869

In his case she includes a forwarding address.
Hi Hi
Barry

--- In TS-520_820_530_830@yahoogroups.com, "Kevin King" <kc6ovd@...> wrote:
>
> Now that is funny!
>
> Unless your name is Tiger! Ouch.
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of boat.anchor
> Sent: Wednesday, December 09, 2009 7:44 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: 830S
>
> Kind of like why my wife puts a return address in my lunch bag every
> morning.
> regards
> Barry
>
>
> --- In TS-520_820_530_830@yahoogroups.com, <k5lcl@> wrote:
> >
> > The DH button is just there to help you remember where you LEFT in case
> you want to go back there the next time. It's really not much use.
> >
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>

23870. Re: TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-10 03:41:52 UTC
From: w5rkl
Topic: 23783 Message: 23870

That's fantastic Rob! Good job! Enjoy your 820, it's a great rig.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, kg4ggx@... wrote:
>
> Mike
> My mistake or mis typing. The 75/80 meter band now will tune from 3.498
> up to 4.014. The reciever seems on frq through out the entire band now. All
> other bands are fine also.. I found the VCO to read 6.000 volts on 80
> meters, and 29 mhz also was 6.0. I went by the service manual and aligned the
> VCO to get all bands to 2.9 to 3.2v. Now that I have a carrier in TUN and CW,
> I followed the service manual and aligned the ANT and MIX coils as well as
> the drive coils.
> At this point I can tune all bands from top to bottom, TUN and CW work so
> I can use them to tune the PA. The VFO is MUCH more stable now! After 15
> minutes or so it doesn't drift at all that I can tell so far. I put it back
> on the antenna and it seems to be spot on freq as far as receive goes. I
> guess when I talk to some of my regulars they will let me know if the transmit
> is on freq. I think I may need to neutralize the PA, as it acts a little
> strange on 20 meters. I would think a throrough alignement would be good..
> But at this time it's ALOT BETTER than it was!
> THANKS FOR ALL THE HELP TO ALL THE GUYS!
> 73 Rob K4MAU
>
>
> [Non-text portions of this message have been removed]
>

23871. Re: TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-10 05:37:28 UTC
From: Bob
Topic: 23783 Message: 23871

Rob
I am glad it is working out for you. I have been using my 820 with out the digital display for the last 20 or so years. The only issue I have with it is that once every 4 to 6 years I need to clean the relay and the pots. The rig is almost indestructible. And with the group like this that will help you keep it going you will get many years out of it.
Bob
KB6KPK

--- In TS-520_820_530_830@yahoogroups.com, kg4ggx@... wrote:
>
> Mike
> My mistake or mis typing. The 75/80 meter band now will tune from 3.498
> up to 4.014. The reciever seems on frq through out the entire band now. All
> other bands are fine also.. I found the VCO to read 6.000 volts on 80
> meters, and 29 mhz also was 6.0. I went by the service manual and aligned the
> VCO to get all bands to 2.9 to 3.2v. Now that I have a carrier in TUN and CW,
> I followed the service manual and aligned the ANT and MIX coils as well as
> the drive coils.
> At this point I can tune all bands from top to bottom, TUN and CW work so
> I can use them to tune the PA. The VFO is MUCH more stable now! After 15
> minutes or so it doesn't drift at all that I can tell so far. I put it back
> on the antenna and it seems to be spot on freq as far as receive goes. I
> guess when I talk to some of my regulars they will let me know if the transmit
> is on freq. I think I may need to neutralize the PA, as it acts a little
> strange on 20 meters. I would think a throrough alignement would be good..
> But at this time it's ALOT BETTER than it was!
> THANKS FOR ALL THE HELP TO ALL THE GUYS!
> 73 Rob K4MAU
>
>
> [Non-text portions of this message have been removed]
>

23872. RE: [TS-520_820_530_830] Re: TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-10 08:05:58 UTC
From: Andrea Liverani
Topic: 23783 Message: 23872

Very happy for U !!! enjoy your rig it's for me the best of the hybrids made by kenwood.

To: TS-520_820_530_830@yahoogroups.com
From: kg4ggx@...m
Date: Wed, 9 Dec 2009 19:53:25 -0500
Subject: Re: [TS-520_820_530_830] Re: TS 820 TUN and CW not working

Mike

My mistake or mis typing. The 75/80 meter band now will tune from 3.498

up to 4.014. The reciever seems on frq through out the entire band now. All

other bands are fine also.. I found the VCO to read 6.000 volts on 80

meters, and 29 mhz also was 6.0. I went by the service manual and aligned the

VCO to get all bands to 2.9 to 3.2v. Now that I have a carrier in TUN and CW,

I followed the service manual and aligned the ANT and MIX coils as well as

the drive coils.

At this point I can tune all bands from top to bottom, TUN and CW work so

I can use them to tune the PA. The VFO is MUCH more stable now! After 15

minutes or so it doesn't drift at all that I can tell so far. I put it back

on the antenna and it seems to be spot on freq as far as receive goes. I

guess when I talk to some of my regulars they will let me know if the transmit

is on freq. I think I may need to neutralize the PA, as it acts a little

strange on 20 meters. I would think a throrough alignement would be good..

But at this time it's ALOT BETTER than it was!

THANKS FOR ALL THE HELP TO ALL THE GUYS!

73 Rob K4MAU

[Non-text portions of this message have been removed]

_____
Scopri tuttele novit? di Internet Explorer 8
http://www.microsoft.com/italy/windows/internet-explorer/msn.aspx

[Non-text portions of this message have been removed]

23873. TS-520S Questions

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-10 05:10:35 UTC
From: unnorml
Topic: 23873 Message: 23873

Greetings,

I recently acquired a TS-520S and have been going through it for about 6 months.

The entire setup consists of the TS-520S, VFO-520S, AT-200, SM-220, SP-520, CF5KV Filter, Comet H-422 4-Band Dipole (V-Config).

I've become very familiar with adjusting and operating it in that time and know both the operator and service manuals quite well by now.
It's working great but I have a few questions regarding a few topics.
I'll make the questions simple in hopes of receiving simple answers.
The last questions relate to other accessories.

1) When adjusting the DRIVE when tuning, do you adjust to max ALC (S9, 225ma), or adjust to max deflection (maximum reading on entire scale)?

2) Is low receive sensitivity on 10m normal along with the known low output? Just curious about this one.

3) Has anyone successfully made the modification for the IF♯2 Output for use with the SM-220 BS5 Pan Adapter? How did you get to the Q4 transistor?

4) I have come across different power readings between the AT-200 Tuner and my Bird Model 43 Wattmeter. I have connected the Tuner and the Meter separately and in series with each other (Tuner->Meter and Meter->Tuner). Has anyone seen this and how did you address it?

I'll say that this site is wonderful and the opportunity to gather information from "everyone" is appreciated. Also a great tool for the curious and the frustrated alike.

73,

Mike - KI4FDH

23874. 20 meters low power

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-10 08:16:39 UTC
From: Andrea Liverani
Topic: 23874 Message: 23874

Again about my ts-820S.

I have low power in 20 meters just 65W instead of 85-90 i have for example in 15 and 10 meters
or 110-120 i have in 80/40 meters.
The tubes are OK. the 12by7a is ok.

A strange thing is that the dip for plate is obtained with the control in the 28 mhz position and
with the load quite advanced clockwise . IF i switch to 15 meters the plate is dipped perfectly
in the 15 meters section of the scale so it is not an incorrect positioned indicator.

Another thing is that i can ear some noise from the tubes when trasmitting on 20 meters, like
something si arcing sometimes in the PA tank. If i move the bandswitch i see oscillations in the power.
I have cleaned the bandswitch but still have same prolems... i think there is something wrong but
only in 20 meters position because all other bands works fine.
Some suggestion for troubleshooting?

_____
Scopri tuttele novità di Internet Explorer 8
http://www.microsoft.com/italy/windows/internet-explorer/msn.aspx

[Non-text portions of this message have been removed]

23875. TS 830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-10 09:36:13 UTC
From: Victor
Topic: 23875 Message: 23875

Hi again
Just a slight problem with the 830S. In the 'tune' position the relay comes in and then drops out again in under 1 second - no chance to tune and load. The VOX gain and delay do not alter anything when in 'tune'. So the only way I can tune is with key down. Is there any way I can increase the delay on 'tune'?
Vic
G4JSS

23876. Re: L41 Tunig coil for TS830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-10 16:55:53 UTC
From: pauloserafini
Topic: 23855 Message: 23876

Gordon,
My L41 tuning coil was totally damaged.
You know how many turns in the windings are placed?
You know what is the function of the transistor Q5 near the coil?
Tank You,
Paulo

--- In TS-520_820_530_830@...m, n6wk@... wrote:
>
> Paulo,
> They are very easy to re-wind.
> They are almost impossible to find.
> They short out very often due to high Static electricity or a strong
> close by RF signal.
> 73,
> Gordon
> N6WK
>
>
>
>
> pauloserafini wrote:
> >
> >
> > I need L41 tuning coil ANT 1.5M in RF Unit for TS 830.
> > Someone has to sell?
> >
> > Paulo
> > PY3 BKT
> >
> >
>

23877. RE: [TS-520_820_530_830] 20 meters low power

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-10 17:33:46 UTC
From: Greg Anders
Topic: 23874 Message: 23877

Hi Andrea,

It is definifitely not good that your plate dip occurs in the 28mhz segment. It sounds like the finals are tuning up on the second harmonic not the fundamental frequency.
Did you try to move the plate tuning to a position slightly lower than the 20M segment to see if there is a dip below the 20M segment/ point we would expect the dip?

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Andrea Liverani
Sent: Thursday, December 10, 2009 12:17 AM
To: ts-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] 20 meters low power

Again about my ts-820S.

I have low power in 20 meters just 65W instead of 85-90 i have for example in 15 and 10 meters
or 110-120 i have in 80/40 meters.
The tubes are OK. the 12by7a is ok.

A strange thing is that the dip for plate is obtained with the control in the 28 mhz position and
with the load quite advanced clockwise . IF i switch to 15 meters the plate is dipped perfectly
in the 15 meters section of the scale so it is not an incorrect positioned indicator.

Another thing is that i can ear some noise from the tubes when trasmitting on 20 meters, like
something si arcing sometimes in the PA tank. If i move the bandswitch i see oscillations in the power.
I have cleaned the bandswitch but still have same prolems... i think there is something wrong but
only in 20 meters position because all other bands works fine.
Some suggestion for troubleshooting?

_____
Scopri tuttele novità di Internet Explorer 8
http://www.microsoft.com/italy/windows/internet-explorer/msn.aspx

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23878. broke my TS-520S (with keyer maybe)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-10 17:52:02 UTC
From: jay
Topic: 23835 Message: 23878

Hi Jerry,

I am a little confused when you say:
"I left the heater switch off, checked the plate idle current,
changed the mode switch to TUN, checked ALC, changed mode switch to
CW, flipped the "tune" toggle switch on the keyer to close the
contacts, dipped the plate, all okay. Then I turned the "tune" toggle
off and began practicing with the keyer."

With the heaters OFF, you should not have any idle current, ALC, or
be able to dip the plate current. If you were able to do all of
this, I suspect there is a problem with the heater switch.

73's
jay, kb9wwq

>
>broke my TS-520S (with keyer maybe)
>
>
>
>
>
>Posted by: "Trav" <mailto:jhotemw@...?Subject=
>Re%3Abroke%20my%20TS-520S%20%28with%20keyer%20maybe%29>jhotemw@...
><http://profiles.yahoo.com/jwahlstrom>jwahlstrom
>
>
>
>
>
>Tue Dec 8, 2009 8:07 pm (PST)
>
>
>
>
>I'm new to ham radio, just got my license in October 2009, and
>bought a used TS-520S at a ham swap meet the same day. It was
>working good on both receive and transmit and I had just recently
>learned how to tune it up according to the user manual and to use my
>external tuner to tune up my dipole outside. Everything was looking
>good and I even made a voice contact once on 80 meters.
>I have a straight key and a no-name keyer and paddle unit (which I
>got from my brother - a lapsed ham). I plugged in the keyer and it
>seemed to work, I got a side tone and tuning proceeded normally. A
>few days later I decided to try it again and use the side tone to

>practice my morse code. I left the heater switch off, checked the
>plate idle current, changed the mode switch to TUN, checked ALC,
>changed mode switch to CW, flipped the "tune" toggle switch on the
>keyer to close the contacts, dipped the plate, all okay. Then I
>turned the "tune" toggle off and began practicing with the keyer.
>About three minutes later the tones suddenly dropped down to silence
>and nothing further would work. After shutting off the rig I let it
>cool for awhile and then turned it back on. It won't transmit and it
>won't receive either. Using the tune-up instructions gets me through
>the "dip the plate" step okay, but after switching the meter to RF
>to peak the meter with the plate and load controls there is no
>response from the meter. Also, no sidetone with either keyer or straight key.
>On receive I can hear a smooth background hiss, and if I twist the
>drive knob I can hear the sweet spot go by with the slight sound of
>motorboat noise (probably from my pellet stove which is in the same
>room). The calibrator signal works correctly and is easy to hear.
>But there is no reception. I've checked the antenna connections and
>antenna tuner and all are okay and set normally as I've done before.
>No smoke or smell was noticed, but I think I broke something. given
>that my electronics skills are rudimentary is this something I can
>try fixing myself, or will it require a trip to the shop?
>thanks for all your help.
>Jerry
>KF7FOW

[Non-text portions of this message have been removed]

23879. Re: TS 830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-10 19:23:13 UTC
From: w5rkl
Topic: 23875 Message: 23879

Does this happen when the "Standby" switch is placed in "SEND" (up) position with the MODE switch set to TUNE?

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Victor" <g4jss@...> wrote:
>
> Hi again
> Just a slight problem with the 830S. In the 'tune' position the relay comes in and then drops out again in under 1 second - no chance to tune and load. The VOX gain and delay do not alter anything when in 'tune'. So the only way I can tune is with key down. Is there any way I can increase the delay on 'tune'?
> Vic
> G4JSS
>

23880. Re: broke my TS-520S (with keyer maybe)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-10 19:17:15 UTC
From: Trav
Topic: 23835 Message: 23880

Jay,

I just went and tried it and you're right. I must have had the heater switch on up through the "dip the plate" step. Then I turned it off and started practicing with the keyer.

Sorry about that. I'm still learning this stuff. Thanks for the correction.

Jerry
KF7FOW

--- In TS-520_820_530_830@yahoogroups.com, jay <kb9wwq@...> wrote:
>
> Hi Jerry,
>
> I am a little confused when you say:
> "I left the heater switch off, checked the plate idle current,
> changed the mode switch to TUN, checked ALC, changed mode switch to
> CW, flipped the "tune" toggle switch on the keyer to close the
> contacts, dipped the plate, all okay. Then I turned the "tune" toggle
> off and began practicing with the keyer."
>
> With the heaters OFF, you should not have any idle current, ALC, or
> be able to dip the plate current. If you were able to do all of
> this, I suspect there is a problem with the heater switch.
>
> 73's
> jay, kb9wwq
>
>
>

23881. Re: broke my TS-520S (with keyer maybe)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-10 20:04:43 UTC
From: w5rkl
Topic: 23835 Message: 23881

Jay is right. Heater switch OFF, the driver and both final tubes do not conduct which leads to no ALC in TUNE mode, no 60ma idling current, no dipping of the IP current, and no RF output.

Next, the keyer itself did not damage the 520.

The receiver front end appears to be working otherwise the calibrator signal would not be heard. My initial suspicion is the antenna change over relay between the final amplifier and the rear panel.

To check this relay, remove top and bottom covers, turn the 520 upside down with the front panel facing you, and look at the left rear. Notice the small metal enclosure between the final amplifier and the rear panel. Remove the 2 screws holding the relay cover in place and remove the cover. Gently pull the relay from it's socket.

Gently remove the relays plastic outer cover.

Cut a strip of bond paper and wet it with contact cleaner. Slide the strip of paper between the relay contacts, repeating this step a number of times with new paper strips wet with contact cleaner until the paper strip no longer turns black. Do this to both side of the 4PDT relay contacts. You will have to manually press on the relay's armature. Just be careful not to damage the relay or bend the contacts. Once cleaning is completed, use canned air, available at Walmart in their computer/stereo section, and remove all residual cleaner and dirt. Reinstall the relay and test for operation.

Try this first before attempting anything else. If your technical troubleshooting and repair skills are lacking then I recommend locating a local ham who has the skills to do this otherwise you could damage the T/R relay and create more problems in your 520 than you already have.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, jay <kb9wwq@...> wrote:
>
> Hi Jerry,
>
> I am a little confused when you say:
> "I left the heater switch off, checked the plate idle current,
> changed the mode switch to TUN, checked ALC, changed mode switch to
> CW, flipped the "tune" toggle switch on the keyer to close the
> contacts, dipped the plate, all okay. Then I turned the "tune" toggle
> off and began practicing with the keyer."
>
> With the heaters OFF, you should not have any idle current, ALC, or
> be able to dip the plate current. If you were able to do all of
> this, I suspect there is a problem with the heater switch.

>
> 73's
> jay, kb9wwq
>
>
>
> >
> >broke my TS-520S (with keyer maybe)
> >
> >
> >
> >
> >
> >Posted by: "Trav" <mailto:jhotemw@...?Subject=
> >Re%3Abroke%20my%20TS-520S%20%28with%20keyer%20maybe%29>jhotemw@...
> ><http://profiles.yahoo.com/jwahlstrom>jwahlstrom
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> >
> >I'm new to ham radio, just got my license in October 2009, and
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> >learned how to tune it up according to the user manual and to use my
> >external tuner to tune up my dipole outside. Everything was looking
> >good and I even made a voice contact once on 80 meters.
> >I have a straight key and a no-name keyer and paddle unit (which I
> >got from my brother - a lapsed ham). I plugged in the keyer and it
> >seemed to work, I got a side tone and tuning proceeded normally. A
> >few days later I decided to try it again and use the side tone to
> >practice my morse code. I left the heater switch off, checked the
> >plate idle current, changed the mode switch to TUN, checked ALC,
> >changed mode switch to CW, flipped the "tune" toggle switch on the
> >keyer to close the contacts, dipped the plate, all okay. Then I
> >turned the "tune" toggle off and began practicing with the keyer.
> >About three minutes later the tones suddenly dropped down to silence
> >and nothing further would work. After shutting off the rig I let it
> >cool for awhile and then turned it back on. It won't transmit and it
> >won't receive either. Using the tune-up instructions gets me through
> >the "dip the plate" step okay, but after switching the meter to RF
> >to peak the meter with the plate and load controls there is no
> >response from the meter. Also, no sidetone with either keyer or straight key.
> >On receive I can hear a smooth background hiss, and if I twist the
> >drive knob I can hear the sweet spot go by with the slight sound of

> >motorboat noise (probably from my pellet stove which is in the same
> >room). The calibrator signal works correctly and is easy to hear.
> >But there is no reception. I've checked the antenna connections and
> >antenna tuner and all are okay and set normally as I've done before.
> >No smoke or smell was noticed, but I think I broke something. given
> >that my electronics skills are rudimentary is this something I can
> >try fixing myself, or will it require a trip to the shop?
> >thanks for all your help.
> >Jerry
> >KF7FOW
>
>
> [Non-text portions of this message have been removed]
>

23882. Re: broke my TS-520S (with keyer maybe)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-10 20:08:58 UTC
From: w5rkl
Topic: 23835 Message: 23882

I forgot to include this question in my last response.

Was the "VOX" switch set to "ON"? If so then the 520, in CW mode with a CW key plugged into the CW socket and the CW key closed (pressed), the 520 would enter transmit mode!

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Trav" <jhotemw@...> wrote:
>
> Jay,
>
> I just went and tried it and you're right. I must have had the heater switch on up through the "dip the plate" step. Then I turned it off and started practicing with the keyer.
>
> Sorry about that. I'm still learning this stuff. Thanks for the correction.
>
> Jerry
> KF7FOW
>
>
> --- In TS-520_820_530_830@yahoogroups.com, jay <kb9wwq@> wrote:
> >
> > Hi Jerry,
> >
> > I am a little confused when you say:
> > "I left the heater switch off, checked the plate idle current,
> > changed the mode switch to TUN, checked ALC, changed mode switch to
> > CW, flipped the "tune" toggle switch on the keyer to close the
> > contacts, dipped the plate, all okay. Then I turned the "tune" toggle
> > off and began practicing with the keyer."
> >
> > With the heaters OFF, you should not have any idle current, ALC, or
> > be able to dip the plate current. If you were able to do all of
> > this, I suspect there is a problem with the heater switch.
> >
> > 73's
> > jay, kb9wwq
> >
> >
> >
>

23883. Re: [TS-520_820_530_830] Re: L41 Tunig coil for TS830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-10 20:19:21 UTC
From: n6wk@n6wk.com
Topic: 23855 Message: 23883

Hi Paulo,
If I remember correctly, the primary is 6 turns and the secondary is 27 turns.
I have a good one here, but I really don't want to take it apart and count the turns. I'll wait until I get a burn one again. hi hi
73,
Gordon
n6wk

pauloserafini wrote:
>
>
> Gordon,
> My L41 tuning coil was totally damaged.
> You know how many turns in the windings are placed?
> You know what is the function of the transistor Q5 near the coil?
> Tank You,
> Paulo
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, n6wk@... wrote:
> >
> > Paulo,
> > They are very easy to re-wind.
> > They are almost impossible to find.
> > They short out very often due to high Static electricity or a strong
> > close by RF signal.
> > 73,
> > Gordon
> > N6WK
> >
> >
> >
> >
> > pauloserafini wrote:
> > >
> > >
> > > I need L41 tuning coil ANT 1.5M in RF Unit for TS 830.
> > > Someone has to sell?
> > >
> > > Paulo
> > > PY3 BKT
> > >
> > >
> >

>
>

23884. VFO 520 VFO 820 Cables

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-10 21:39:36 UTC
From: n6wk_skcc3
Topic: 23884 Message: 23884

I want to thank everyone for the response to the VFO 520/820 Cables that I have offered for sale. They are selling out quickly and I only have around 5 left now.
I also still have a few of the 9 Pin shorting plugs for the 520 820 Radios.
I am also now making and selling the VFO-240 VFO-230 cables for the TS 530, TS-830, TS-130 etc etc

Thanks,
Gordon
N6WK

23885. Re: [TS-520_820_530_830] 20 meters low power

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-10 21:45:47 UTC
From: Dave & Loraine
Topic: 23874 Message: 23885

Hi Andrea,

Note the IP and HV on 15m then do the same on 20m.
Higher current and lower voltage on 20m may indicate arc shorting.

Peaked in TUNE, what's the output on 20 and what are the settings? (load, plate, drive)
73 Dave f4eyk

23886. Gordon N6WK Question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-10 22:03:20 UTC
From: Bob
Topic: 23886 Message: 23886

Gordon
Do you ever have your radio on? On the QRZ page you state that you are on 14.243 are you still? Also would you be against a local in need of help and suggestions dropping by and showing you a rig then picking your brain. Maybe it could be done over lunch?

KB6KPK
Bob in Orange

23887. Re: [TS-520_820_530_830] Gordon N6WK Question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-10 22:13:01 UTC
From: n6wk@n6wk.com
Topic: 23886 Message: 23887

Hi Bob,
Yes, I do have the radio on. I must confess, I don't get on 14.243 as much as I used to. Lately been doing more repairs and building then I have been operating.
I do get on 14.218 every Thursday Morning at 1600UTC (9AM Pacific time) with a couple of good friends for an hour or so.
Please tell me more about this rig you need to pick my Brain over .

73,
Gordon
in Santa Ana :-)

Bob wrote:
>
>
> Gordon
> Do you ever have your radio on? On the QRZ page you state that you are
> on 14.243 are you still? Also would you be against a local in need of
> help and suggestions dropping by and showing you a rig then picking
> your brain. Maybe it could be done over lunch?
>
> KB6KPK
> Bob in Orange
>
>

23888. K4EAA

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-10 22:10:30 UTC
From: Ken
Topic: 20248 Message: 23888

OK! I GIVE...

Just spent an hour looking at K4EAA's website and he says to just email him with questions about shipping, or purchasing "other parts" not shown on the website etc. Only problem is... I can't find any eMail address to send my questions to him and the web listed phone number wasn't answered...

I need:

2 ea of the PG-200 panel fasteners for the TS-520
1 ea of the filter select knob for the TS-440

Can anyone help?

Either a phone number (1 941 925 7222 rang and rang), or an email address would be appreciated.

OH... if you have the parts, let me know that too.

Ken - KB7H

23889. Re: K4EAA

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-10 22:15:33 UTC
From: n6wk_skcc3
Topic: 20248 Message: 23889

ken@...

73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "Ken" <atm_ken_hunter@...> wrote:
>
> OK! I GIVE...
>
> Just spent an hour looking at K4EAA's website and he says to just email him with questions about shipping, or purchasing "other parts" not shown on the website etc. Only problem is... I can't find any eMail address to send my questions to him and the web listed phone number wasn't answered...
>
> I need:
>
> 2 ea of the PG-200 panel fasteners for the TS-520
> 1 ea of the filter select knob for the TS-440
>
> Can anyone help?
>
> Either a phone number (1 941 925 7222 rang and rang), or an email address would be appreciated.
>
> OH... if you have the parts, let me know that too.
>
> Ken - KB7H
>
<ken@k4eaa.com

23890. Re: K4EAA

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-10 22:20:52 UTC
From: rommelbmk
Topic: 20248 Message: 23890

K4EAA's e-mail address is on the home page of the website. It is displayed as an image rather than just text to prevent spammers. The address is ken (at) k4eaa (dot) com.

Brian, K3BMK

--- In TS-520_820_530_830@yahoogroups.com, "Ken" <atm_ken_hunter@...> wrote:
>
> OK! I GIVE...
>
> Just spent an hour looking at K4EAA's website and he says to just email him with questions about shipping, or purchasing "other parts" not shown on the website etc. Only problem is... I can't find any eMail address to send my questions to him and the web listed phone number wasn't answered...
>
> I need:
>
> 2 ea of the PG-200 panel fasteners for the TS-520
> 1 ea of the filter select knob for the TS-440
>
> Can anyone help?
>
> Either a phone number (1 941 925 7222 rang and rang), or an email address would be appreciated.
>
> OH... if you have the parts, let me know that too.
>
> Ken - KB7H
>

23891. Re: [TS-520_820_530_830] K4EAA

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-10 22:19:46 UTC
From: Gene Henderson
Topic: 20248 Message: 23891

Ken, His address is ken@... Gene Wb9hla

----- Original Message -----
From: Ken
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, December 10, 2009 17:10
Subject: [TS-520_820_530_830] K4EAA

OK! I GIVE...

Just spent an hour looking at K4EAA's website and he says to just email him with questions about shipping, or purchasing "other parts" not shown on the website etc. Only problem is... I can't find any eMail address to send my questions to him and the web listed phone number wasn't answered...

I need:

2 ea of the PG-200 panel fasteners for the TS-520
1 ea of the filter select knob for the TS-440

Can anyone help?

Either a phone number (1 941 925 7222 rang and rang), or an email address would be appreciated.

OH... if you have the parts, let me know that too.

Ken - KB7H

[Non-text portions of this message have been removed]

23892. Gordon N6WK Question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-10 22:29:20 UTC
From: kb6kpk
Topic: 23892 Message: 23892

Gordon
The question is about the Kenwood Twins 599 early version. I have the Receiver working very well. The Transmitter need a lot of help and just by looking at it you may be able to tell me if it is worth the time and effort. It is a rig that was working when I loaned it out but when I got it back 3 years later it was smoked. It is not that big of deal but for me to have someone look at it physically and see the damage with recommendation on where to start as a minimum it would be a big help. I also did not get back the connecting cable so I will either need to build a new one or pick one up? I havent begun to look at all the parts that will need to be replace. New tubes even though they test ok? resistors that have split from age, tuning wheels that the rubberbands have cracked and frozen need to be replaced with new, or updated to new metal chain type tuning styles that can handle the heat? Coils that are fried or melted? This will be fun to get back on the air but $$ could be an issue if it is going to cost a ton of $$.

KB6KPK
Bob
Orange, Ca.

23893. Re: [TS-520_820_530_830] Gordon N6WK Question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-10 22:43:06 UTC
From: n6wk@n6wk.com
Topic: 23892 Message: 23893

Bob,
You are going to regret NOT getting the connecting cable back. The Connectors appear to no longer be made. I do have the wiring schematic for the cables, but Hirose <sp> no longer makes those connectors. They do make something similar, but you would have to change the mating connector in each rig as well to match the cable. If I recall correctly, they are 16 pin connectors.
No one, that I am aware of, has ever been able to find a used/replacement cable.
Resistors are No problem to find and replace. Melted Coils could be a problem.
I would be happy to take a look at it with you, but I do have a very busy schedule right now, especially with the Holidays right around the corner. Maybe we could do it after Christmas?
I also have a SteppIR that I need to do some work on and then there is the rains coming etc etc etc.. hi hi

73,
Gordon
N6WK

kb6kpk wrote:
>
>
> Gordon
> The question is about the Kenwood Twins 599 early version. I have the
> Receiver working very well. The Transmitter need a lot of help and
> just by looking at it you may be able to tell me if it is worth the
> time and effort. It is a rig that was working when I loaned it out but
> when I got it back 3 years later it was smoked. It is not that big of
> deal but for me to have someone look at it physically and see the
> damage with recommendation on where to start as a minimum it would be
> a big help. I also did not get back the connecting cable so I will
> either need to build a new one or pick one up? I havent begun to look
> at all the parts that will need to be replace. New tubes even though
> they test ok? resistors that have split from age, tuning wheels that
> the rubberbands have cracked and frozen need to be replaced with new,
> or updated to new metal chain type tuning styles that can handle the
> heat? Coils that are fried or melted? This will be fun to get back on
> the air but $$ could be an issue if it is going to cost a ton of $$.
>
> KB6KPK
> Bob
> Orange, Ca.
>

> __

23894. Re: Gordon N6WK Question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-10 23:13:05 UTC
From: Bob
Topic: 23892 Message: 23894

Gordon
I am not going to worry about what I did not get back. To go ask his widow to go through all the junk now would be very bad taste. This man was a dear friend of mine for close to 30 years and a Ham Radio Operator for over 40 years. He helped me many more times than I could ever count. He just needed some extra help the last few years he was with us. I will look into finding the connector ends and I think I saw the cable diagram or schematic for the cable in the service manual so if it needs to be modified or reproduced with different style ends to make the rig work so be it. Have you been to Ford Electronics in Fullerton? Sometimes Scott Ford and his brother come up with some stuff that the other outlets cant find.

After the first of the year would not be any issue at all.

Antenna issues, I just rebuilt a 25 year old KLM rotatable dipole it is 45 ft long. And I have a 80 Ft telescoping tower that is in need of being put up so I can put the 6 element KLM back on the air as well.

Projects what would life be with out them?

I have a IRLP node # 3551 here locally and have 2 mtr SSB on 4.200 as well as winsystem on most of the time, along with the HF. I could work you simplex 2 mtr, 220, 440, or 6 mtr

I could also drop by and help you work on that SteppIR if you need a extra hand. I am not as young as I used to be but I still can handle a wrench with out dropping it. Nuts and bolts that is a different story.

Gordon right now I am out of work so M-F I could help as well.
73's
KB6KPK
Bob
Orange, Ca.

--- In TS-520_820_530_830@yahoogroups.com, n6wk@... wrote:
>
> Bob,
> You are going to regret NOT getting the connecting cable back. The
> Connectors appear to no longer be made. I do have the wiring schematic
> for the cables, but Hirose <sp> no longer makes those connectors.
> They do make something similar, but you would have to change the mating
> connector in each rig as well to match the cable. If I recall correctly,
> they are 16 pin connectors.
> No one, that I am aware of, has ever been able to find a
> used/replacement cable.
> Resistors are No problem to find and replace. Melted Coils could be a
> problem.
> I would be happy to take a look at it with you, but I do have a very
> busy schedule right now, especially with the Holidays right around the

> corner. Maybe we could do it after Christmas?
> I also have a SteppIR that I need to do some work on and then there is
> the rains coming etc etc etc.. hi hi
>
> 73,
> Gordon
> N6WK
>
>
> kb6kpk wrote:
> >
> >
> > Gordon
> > The question is about the Kenwood Twins 599 early version. I have the
> > Receiver working very well. The Transmitter need a lot of help and
> > just by looking at it you may be able to tell me if it is worth the
> > time and effort. It is a rig that was working when I loaned it out but
> > when I got it back 3 years later it was smoked. It is not that big of
> > deal but for me to have someone look at it physically and see the
> > damage with recommendation on where to start as a minimum it would be
> > a big help. I also did not get back the connecting cable so I will
> > either need to build a new one or pick one up? I havent begun to look
> > at all the parts that will need to be replace. New tubes even though
> > they test ok? resistors that have split from age, tuning wheels that
> > the rubberbands have cracked and frozen need to be replaced with new,
> > or updated to new metal chain type tuning styles that can handle the
> > heat? Coils that are fried or melted? This will be fun to get back on
> > the air but $$ could be an issue if it is going to cost a ton of $$.
> >
> > KB6KPK
> > Bob
> > Orange, Ca.
> >
> > __
>

23895. Re: [TS-520_820_530_830] Gordon N6WK Question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-10 23:00:34 UTC
From: Chuck Goelz
Topic: 23892 Message: 23895

Bob, & Gordon,

The 599 interconnect cable does show up from time to time on eBay... The last one sold on Dec 3rd, for a whopping $97.67, +$7.15 s/h. A few months ago I saw one go for over $100. So, if you are willing to spend that much, you might want to set up a saved search to email you when one goes up for auction. You won't know how it will be described, so I would suggest searching on "Kenwood (T-599*, R-599*, Twins)", or something to that effect.

Sorry, mine's in use! Not selling it (yet)!

Cheers & 73,
Chuck WA3CEJ

----- Original Message -----
From: n6wk@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, December 10, 2009 5:43 PM
Subject: Re: [TS-520_820_530_830] Gordon N6WK Question

Bob,
You are going to regret NOT getting the connecting cable back. The
Connectors appear to no longer be made. I do have the wiring schematic
for the cables, but Hirose <sp> no longer makes those connectors.
They do make something similar, but you would have to change the mating
connector in each rig as well to match the cable. If I recall correctly,
they are 16 pin connectors.
No one, that I am aware of, has ever been able to find a
used/replacement cable.
Resistors are No problem to find and replace. Melted Coils could be a
problem.
I would be happy to take a look at it with you, but I do have a very
busy schedule right now, especially with the Holidays right around the
corner. Maybe we could do it after Christmas?
I also have a SteppIR that I need to do some work on and then there is
the rains coming etc etc etc.. hi hi

73,
Gordon
N6WK

kb6kpk wrote:
>
>
> Gordon
> The question is about the Kenwood Twins 599 early version. I have the
> Receiver working very well. The Transmitter need a lot of help and
> just by looking at it you may be able to tell me if it is worth the

> time and effort. It is a rig that was working when I loaned it out but
> when I got it back 3 years later it was smoked. It is not that big of
> deal but for me to have someone look at it physically and see the
> damage with recommendation on where to start as a minimum it would be
> a big help. I also did not get back the connecting cable so I will
> either need to build a new one or pick one up? I havent begun to look
> at all the parts that will need to be replace. New tubes even though
> they test ok? resistors that have split from age, tuning wheels that
> the rubberbands have cracked and frozen need to be replaced with new,
> or updated to new metal chain type tuning styles that can handle the
> heat? Coils that are fried or melted? This will be fun to get back on
> the air but $$ could be an issue if it is going to cost a ton of $$.
>
> KB6KPK
> Bob
> Orange, Ca.
>
> __

[Non-text portions of this message have been removed]

23896. RE: [TS-520_820_530_830] 20 meters low power

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-11 08:01:38 UTC
From: Andrea Liverani
Topic: 23874 Message: 23896

Hi, absolutely no sign of dip (or power) except than 1 dip in 28 mhz segment. I also supposed that i am tuning the second harmonic.
The radio is also instable in 20 meters i an see some arcing in the PA section of the band switch if i turn the load control slightly counterclockwise
from the point of power dip. It is also strange that load control is dipped so advanced clockwise in respect of the other bands....

To: TS-520_820_530_830@yahoogroups.com
From: greg.anders@...
Date: Thu, 10 Dec 2009 09:33:46 -0800
Subject: RE: [TS-520_820_530_830] 20 meters low power

Hi Andrea,

It is definifitely not good that your plate dip occurs in the 28mhz segment. It sounds like the finals are tuning up on the second harmonic not the fundamental frequency.

Did you try to move the plate tuning to a position slightly lower than the 20M segment to see if there is a dip below the 20M segment/ point we would expect the dip?

Greg

KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Andrea Liverani

Sent: Thursday, December 10, 2009 12:17 AM

To: ts-520_820_530_830@...m

Subject: [TS-520_820_530_830] 20 meters low power

Again about my ts-820S.

I have low power in 20 meters just 65W instead of 85-90 i have for example in 15 and 10 meters

or 110-120 i have in 80/40 meters.

The tubes are OK. the 12by7a is ok.

A strange thing is that the dip for plate is obtained with the control in the 28 mhz position and

with the load quite advanced clockwise . IF i switch to 15 meters the plate is dipped perfectly

in the 15 meters section of the scale so it is not an incorrect positioned indicator.

Another thing is that i can ear some noise from the tubes when trasmitting on 20 meters, like

something si arcing sometimes in the PA tank. If i move the bandswitch i see oscillations in the power.

I have cleaned the bandswitch but still have same prolems... i think there is something wrong but

only in 20 meters position because all other bands works fine.

Some suggestion for troubleshooting?

Scopri tuttele novit? di Internet Explorer 8

http://www.microsoft.com/italy/windows/internet-explorer/msn.aspx

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[Non-text portions of this message have been removed]

Di che umore sei oggi? Dillo con le Emoticon
http://intrattenimento.it.msn.com/emoticon

[Non-text portions of this message have been removed]

23897. Re: [TS-520_820_530_830] Re: TS 830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-11 08:51:22 UTC
From: g4jss@tiscali.co.uk
Topic: 23875 Message: 23897

Mike

With the switch to 'send' and mode the mode switch to 'tune' then it is OK and the relay doesn't drop out.

With the switch to 'rec' and the mode switch to 'tune' the relay comes straight in and drops straight out. Also, the Vox gain seems odd. With it set at very minimum gain it still activates the rig when keying.

Cheers

Vic
Fun games for all the family - http://www.tiscali.co.uk/play

[Non-text portions of this message have been removed]

23898. RE: [TS-520_820_530_830] 20 meters low power

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-11 08:12:25 UTC
From: Andrea Liverani
Topic: 23874 Message: 23898

Hi Dave!
In 15 meters i have 90 W , plate control perfectly centered in the 15meters section load just above middle scale and tune in the middle of the scale (alc maximum deflection)

In 20 meters i read 60-70W plate contro in 28 mhz section , load quite fully clockwise and tune in middle scale.

IC is about the same in both bands... 220-230 ma and HV is about 800V .

I have observed tubes and pa compartment in the dark and i can see some arcing if i move the load control counterclockwise in 20 meters, I have seen the same arcing inside one of the tubes (the one neat the back of the radio). If I advance load again arc disappears.

I think all is related on the wrong position of the plate control where i have the dip that is in the 28mhz segment and not on 14mhz.

Thanks

To: TS-520_820_530_830@yahoogroups.com
From: dave.crooks@...
Date: Thu, 10 Dec 2009 22:45:47 +0100
Subject: Re: [TS-520_820_530_830] 20 meters low power

Hi Andrea,

Note the IP and HV on 15m then do the same on 20m.

Higher current and lower voltage on 20m may indicate arc shorting.

Peaked in TUNE, what's the output on 20 and what are the settings? (load,

plate, drive)

73 Dave f4eyk

Di che umore sei oggi? Dillo con le Emoticon
http://intrattenimento.it.msn.com/emoticon

[Non-text portions of this message have been removed]

23899. Kenwood DG-5 Digitral Readout For Sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-11 17:30:37 UTC
From: jsloss
Topic: 23899 Message: 23899

Very nice DG-5 for the 520 series. Please reply direct.

Thanks

Joe k7mks@...

[Non-text portions of this message have been removed]

23900. Re: K4EAA

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-11 17:59:33 UTC
From: Ken
Topic: 20248 Message: 23900

Thanks for the info on Kens address.

I have ordered some parts from him but he doesn't have anyting except for the Hybrids in the way of parts.

Anyone have a spare filter knob for the TS-440S laying around or know where I can find one?

Ken - KB7H

--- In TS-520_820_530_830@yahoogroups.com, "Gene Henderson" <wb9hla@...> wrote:
>
> Ken, His address is ken@... Gene Wb9hla
>
> ----- Original Message -----
> From: Ken
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, December 10, 2009 17:10
> Subject: [TS-520_820_530_830] K4EAA
>
>
>
> OK! I GIVE...
>
> Just spent an hour looking at K4EAA's website and he says to just email him with questions about shipping, or purchasing "other parts"

23901. Re: TS 830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-11 18:39:31 UTC
From: w5rkl
Topic: 23875 Message: 23901

Vic,

If VOX is turned ON and you change the MODE switch to TUNE or any other mode for that matter, the 830 will momentarily switch to transmit then back to receive. This is caused by the making and breaking of the MODE switch wafer switch contacts creating electrical noise that is picked up by the relay amplifier, energizing the relays momentarily.

To prevent this from happening, keep the VOX switch set to "OFF" until you are ready to use VOX. This same thing happens on my TS-820 if I forget and leave VOX turned "ON".

Remember, CW break-in required VOX to be turned "ON". If VOX is left turned "OFF" in CW mode, CW break-in will not work. CW break-in is when the MODE switch is set to "CW" and VOX is turned ON, the 830 switches to transmit "automatically" by closing the CW key. The CW sidetone activates the relay amplifier through a portion of the AF UNIT's VOX circuit, same as though you spoke into the microphone with VOX turned ON and set properly, the 830 would switch to transmit when you speak into the microphone.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "g4jss@..." <g4jss@...> wrote:
>
>
> Mike
>
> With the switch to 'send' and mode the mode switch to 'tune' then it is OK and the relay doesn't drop out.
>
> With the switch to 'rec' and the mode switch to 'tune' the relay comes straight in and drops straight out. Also, the Vox gain seems odd. With it set at very minimum gain it still activates the rig when keying.
>
> Cheers
>
> Vic
> Fun games for all the family - http://www.tiscali.co.uk/play
>
> [Non-text portions of this message have been removed]
>

23902. Re: 20 meters low power

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-11 18:45:49 UTC
From: w5rkl
Topic: 23874 Message: 23902

Have you checked the band switch coupling(s)? They may be cracked which can lead to the wafer switch being out of alignment.

I also would check each bands wafer switch, including the wafer switch in the final amplifier, to ensure it is making good contact. This means to not only visually inspect the switch but look closely as the wafer switch moves from contact to contact. A wafer switch that is making contact will show the "fixed" contacts rise as the moving metal wafer slides between the fixed contacts. If the fixed contact do not rise when the wafer slides between them then it's possible the fixed contacts are not making contact with the sliding wafer.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Andrea Liverani <andrealiverani@...> wrote:
>
>
> Hi, absolutely no sign of dip (or power) except than 1 dip in 28 mhz segment. I also supposed that i am tuning the second harmonic.
> The radio is also instable in 20 meters i an see some arcing in the PA section of the band switch if i turn the load control slightly counterclockwise
> from the point of power dip. It is also strange that load control is dipped so advanced clockwise in respect of the other bands....
>
> To: TS-520_820_530_830@yahoogroups.com
> From: greg.anders@...
> Date: Thu, 10 Dec 2009 09:33:46 -0800
> Subject: RE: [TS-520_820_530_830] 20 meters low power
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> Hi Andrea,
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> It is definifitely not good that your plate dip occurs in the 28mhz segment. It sounds like the finals are tuning up on the second harmonic not the fundamental frequency.
>
> Did you try to move the plate tuning to a position slightly lower than the 20M segment to see if there is a dip below the 20M segment/ point we would expect the dip?
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> Greg
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> KG6YV
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> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Andrea Liverani
>
> Sent: Thursday, December 10, 2009 12:17 AM
>
> To: ts-520_820_530_830@yahoogroups.com
>
> Subject: [TS-520_820_530_830] 20 meters low power
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> Again about my ts-820S.
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> I have low power in 20 meters just 65W instead of 85-90 i have for example in 15 and 10 meters
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> or 110-120 i have in 80/40 meters.
>
> The tubes are OK. the 12by7a is ok.
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> A strange thing is that the dip for plate is obtained with the control in the 28 mhz position and
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> with the load quite advanced clockwise . IF i switch to 15 meters the plate is dipped perfectly
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> in the 15 meters section of the scale so it is not an incorrect positioned indicator.
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> Another thing is that i can ear some noise from the tubes when trasmitting on 20 meters, like
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> something si arcing sometimes in the PA tank. If i move the bandswitch i see oscillations in the power.
>
> I have cleaned the bandswitch but still have same prolems... i think there is something wrong but
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> only in 20 meters position because all other bands works fine.
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> Some suggestion for troubleshooting?
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> Di che umore sei oggi? Dillo con le Emoticon
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23903. RE: [TS-520_820_530_830] Re: 20 meters low power

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-11 18:49:34 UTC
From: Andrea Liverani
Topic: 23874 Message: 23903

i will definitely do, there is a method to accesso to the wafer board in the pa cage ? it is in a very difficult position to reach.

To: TS-520_820_530_830@yahoogroups.com
From: w5rkl@...
Date: Fri, 11 Dec 2009 18:45:49 +0000
Subject: [TS-520_820_530_830] Re: 20 meters low power

Have you checked the band switch coupling(s)? They may be cracked which can lead to the wafer switch being out of alignment.

I also would check each bands wafer switch, including the wafer switch in the final amplifier, to ensure it is making good contact. This means to not only visually inspect the switch but look closely as the wafer switch moves from contact to contact. A wafer switch that is making contact will show the "fixed" contacts rise as the moving metal wafer slides between the fixed contacts. If the fixed contact do not rise when the wafer slides between them then it's possible the fixed contacts are not making contact with the sliding wafer.

73s

Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Andrea Liverani <andrealiverani@...> wrote:

>

>

> Hi, absolutely no sign of dip (or power) except than 1 dip in 28 mhz segment. I also supposed that i am tuning the second harmonic.

> The radio is also instable in 20 meters i an see some arcing in the PA section of the band switch if i turn the load control slightly counterclockwise

> from the point of power dip. It is also strange that load control is dipped so advanced clockwise in respect of the other bands....

>

> To: TS-520_820_530_830@yahoogroups.com

> From: greg.anders@...

> Date: Thu, 10 Dec 2009 09:33:46 -0800

> Subject: RE: [TS-520_820_530_830] 20 meters low power

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> Hi Andrea,

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>

> It is definifitely not good that your plate dip occurs in the 28mhz segment. It sounds like the finals are tuning up on the second harmonic not the fundamental frequency.

>

> Did you try to move the plate tuning to a position slightly lower than the 20M segment to see if there is a dip below the 20M segment/ point we would expect the dip?

>

>

>

> Greg

>

> KG6YV

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>

> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Andrea Liverani

>

> Sent: Thursday, December 10, 2009 12:17 AM

>

> To: ts-520_820_530_830@yahoogroups.com

>

> Subject: [TS-520_820_530_830] 20 meters low power

>

>

>

> Again about my ts-820S.

>

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>

> I have low power in 20 meters just 65W instead of 85-90 i have for example in 15 and 10 meters

>

> or 110-120 i have in 80/40 meters.

>

> The tubes are OK. the 12by7a is ok.

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> A strange thing is that the dip for plate is obtained with the control in the 28 mhz position and

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> with the load quite advanced clockwise . IF i switch to 15 meters the plate is dipped perfectly

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> in the 15 meters section of the scale so it is not an incorrect positioned indicator.

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> Another thing is that i can ear some noise from the tubes when trasmitting on 20 meters, like

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> something si arcing sometimes in the PA tank. If i move the bandswitch i see oscillations in the power.

>

> I have cleaned the bandswitch but still have same prolems... i think there is something wrong but

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> only in 20 meters position because all other bands works fine.

>

> Some suggestion for troubleshooting?

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> Scopri tuttele novit? di Internet Explorer 8

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> Di che umore sei oggi? Dillo con le Emoticon

> http://intrattenimento.it.msn.com/emoticon

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25 Gigabyte per le tue foto online
http://www.windowslive.it/foto.aspx

[Non-text portions of this message have been removed]

23904. Re: [TS-520_820_530_830] 20 meters low power

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-11 19:25:15 UTC
From: Dave & Loraine
Topic: 23874 Message: 23904

Andrea,
What are the settings and results in TUNE mode?
(Don't rock the band switch during Tx)
If you get around 20watts with 'normal' settings, then the basic band setup
is ok.

Can you check the CW output frequency on 20m? (look for harmonic on 10m)

73 Dave f4eyk

23905. RE: [TS-520_820_530_830] 20 meters low power

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-11 22:40:51 UTC
From: Andrea Liverani
Topic: 23874 Message: 23905

Hi i get about 15-20W in tune without arcing but with same plate setting than in CW (plate in 28mhz zone) i send you a small clip on youtube showing arcing and innatural settings
in 20 meters. I have tried for armonics if i transmit on 14175 i have strong armonic exactly at 28.350
if i transmit even with 1W o have full scale deflection on receiver. I ham trasmitting on two bands!!!

http://www.youtube.com/watch?v=I3mU8T24VE4

A friend of mine told me that is possible that the bandswitch maybe switches also some condenser
in the pa stage prom bands to band and maybe one ore more condenser are bad and so me have this problem...

i don't know what to think because it's the first time i see such a problem.

To: TS-520_820_530_830@yahoogroups.com
From: dave.crooks@...
Date: Fri, 11 Dec 2009 20:25:15 +0100
Subject: Re: [TS-520_820_530_830] 20 meters low power

Andrea,

What are the settings and results in TUNE mode?

(Don't rock the band switch during Tx)

If you get around 20watts with 'normal' settings, then the basic band setup

is ok.

Can you check the CW output frequency on 20m? (look for harmonic on 10m)

73 Dave f4eyk

_____
I tuoi amici sempre a portata di clic, sul nuovo Web Messenger
http://www.windowslive.it/foto.aspx

[Non-text portions of this message have been removed]

23906. Need external VFO??

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-12 00:14:54 UTC
From: rkersey tds.net
Topic: 23906 Message: 23906

Hi All,

I hope to get my station --- a TS-830S and Tokyo Hypower HC-200 tuner and a horizontal loop for 40-20-17-15-12-10 meters --- set up soon after Christmas. I wonder if I need an external VFO for DXing or if I could just use an external receiver tuner to the split frequency instead. What do you folks think? Someone suggested this on a forum at eham, so that's why I'm asking.

TIA,
Roy Kersey
KI4HAG

[Non-text portions of this message have been removed]

23907. Re: broke my TS-520S (with keyer maybe)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-12 02:43:34 UTC
From: Trav
Topic: 23835 Message: 23907

Thanks for your help Mike. The VOX is off. And since this incident the TS-520s has started working again, both receive and transmit. In fact, I've made two QSO's using CW this week... and learned just how poor my own CW skills are... but that's another story.

You gave some very good advice on the T/R relay and I will keep that in mind for the future. But right now I'm just happy to have a working rig again. (Though I still can't figure out why it quit working for several days, then came back again...???)

Thanks to everyone for your responses. I'll be checking this forum frequently for good suggestions on caring for and using these workhorse tranceivers.

73s
Jerry
KF7FOW

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Jay is right. Heater switch OFF, the driver and both final tubes do not conduct which leads to no ALC in TUNE mode, no 60ma idling current, no dipping of the IP current, and no RF output.
>
> Next, the keyer itself did not damage the 520.
>
> The receiver front end appears to be working otherwise the calibrator signal would not be heard. My initial suspicion is the antenna change over relay between the final amplifier and the rear panel.
>
> To check this relay, remove top and bottom covers, turn the 520 upside down with the front panel facing you, and look at the left rear. Notice the small metal enclosure between the final amplifier and the rear panel. Remove the 2 screws holding the relay cover in place and remove the cover. Gently pull the relay from it's socket.
>
> Gently remove the relays plastic outer cover.
>
> Cut a strip of bond paper and wet it with contact cleaner. Slide the strip of paper between the relay contacts, repeating this step a number of times with new paper strips wet with contact cleaner until the paper strip no longer turns black. Do this to both side of the 4PDT relay contacts. You will have to manually press on the relay's armature. Just be careful not to damage the relay or bend the contacts. Once cleaning is completed, use canned air, available at Walmart in their computer/stereo section, and remove all residual cleaner and dirt. Reinstall the relay and test for operation.
>
> Try this first before attempting anything else. If your technical troubleshooting and repair skills are lacking then I recommend locating a local ham who has the skills to do this otherwise you could damage the T/R relay and create more problems in your 520 than you already have.

>
> 73s
> Mike W5RKL
>

23908. Re: [TS-520_820_530_830] 20 meters low power

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-12 10:39:42 UTC
From: Dave & Loraine
Topic: 23874 Message: 23908

OK Andrea,
Thanks for the video! Very clear.

I see that you have your rig meter set to RF.
Was it set to IP when you measured current?
Are you using a good dummy load?
Your readings indicate a nice rig that just needs some TLC.
Yes, the bandswitch does switch capacitors in the pi-network and it looks like Mike's recommendation is the way to go. Work safely! Use the schematic.
Check that each rotor lifts the fixed contacts as it passes through them.
Check the couplings for movement.

Gordon knows the these band switches backwards and has posted excellent photos on the group site.
I'm sure that Gordon and Mike will help if you need guidance.
Good luck.
73 Dave f4eyk

23909. Re: [TS-520_820_530_830] Need external VFO??

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-12 10:41:20 UTC
From: g4jbr@netscape.net
Topic: 23906 Message: 23909

Hi the RIT/XIT gives you about +/- 2Khz which should cater for most needs but the use of 5 Khz as a split is becoming more common of course.I think somewhere on net is mod for increasing the RIT XIT spread and that should be all you need.
Cheers Pete

-----Original Message-----
From: rkersey tds.net <rkersey@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sat, 12 Dec 2009 0:14
Subject: [TS-520_820_530_830] Need external VFO??

Hi All,

I hope to get my station --- a TS-830S and Tokyo Hypower HC-200 tuner and a horizontal loop for 40-20-17-15-12-10 meters --- set up soon after Christmas. I wonder if I need an external VFO for DXing or if I could just use an external receiver tuner to the split frequency instead. What do you folks think? Someone suggested this on a forum at eham, so that's why I'm asking.

TIA,
Roy Kersey
KI4HAG

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23910. Re: Need external VFO??

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-12 12:30:26 UTC
From: w5rkl
Topic: 23906 Message: 23910

Unless you do a lot of DX split operation, more than likely you will not get much use from an external VFO. I have an 820 with the VFO-820 and 95% of the time I never tune using the VFO-820.

I personally would not modify the 830's RIT/XIT to increase the frequency change. If you go to that extreme, it would be safer and easier to simply purchase a VFO-230 or VFO-240, no modifications required.

As for using a separate receiver, antenna change over and muting circuits would be required. A better idea would be to find and purchase a good set of Kenwood 599 twins. That would solve everything. Keep the 830 of course.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, g4jbr@... wrote:
>
>
> Hi the RIT/XIT gives you about +/- 2Khz which should cater for most needs but the use of 5 Khz as a split is becoming more common of course.I think somewhere on net is mod for increasing the RIT XIT spread and that should be all you need.
> Cheers Pete
>
>
>
>
>
> -----Original Message-----
> From: rkersey tds.net <rkersey@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sat, 12 Dec 2009 0:14
> Subject: [TS-520_820_530_830] Need external VFO??
>
>
>
>
>
>
> Hi All,
>
> I hope to get my station --- a TS-830S and Tokyo Hypower HC-200 tuner and a
> horizontal loop for 40-20-17-15-12-10 meters --- set up soon after
> Christmas. I wonder if I need an external VFO for DXing or if I could just
> use an external receiver tuner to the split frequency instead. What do you
> folks think? Someone suggested this on a forum at eham, so that's why I'm
> asking.
>

> TIA,
> Roy Kersey
> KI4HAG
>
> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
>

23911. Re: [TS-520_820_530_830] Need external VFO??

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-12 13:20:20 UTC
From: John Davidson
Topic: 23906 Message: 23911

--- On Fri, 12/11/09, rkersey tds.net <rkersey@...> wrote:

From: rkersey tds.net rkersey@...

  Usubg the ext VFO is a lot more economical than buying another receiver. Modern rigs all seem to have a 2nd VFO built in. Tghis is for split freq operation.
I have never operated split but DX stations seem to do lthis often.

Hi All,

 I wonder if I need an external VFO for DXing or if I could just
use an external receiver tuner to the split frequency instead. What do you
folks think?
TIA,
Roy Kersey
KI4HAG

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

23912. Re: [TS-520_820_530_830] Re: TS 830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-12 08:56:27 UTC
From: g4jss@tiscali.co.uk
Topic: 23875 Message: 23912

Hi Mike

Thanks. It seems that mine is working as it should and not faulty as I thought. Much obliged.

Vic
Tech tips and gadgets - http://www.tiscali.co.uk/technology

[Non-text portions of this message have been removed]

23913. Slow T/R relay

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-12 14:39:10 UTC
From: Peter
Topic: 23913 Message: 23913

Hi All, I've been following the problems that have been mentioned about the T/R relay. When I release the mike it takes several seconds to go to receive from xmit. I have checked using VOX to see if it is my MC-50 that is the issue and the results are the same. As a fisrt step to resolve this should I clean the the relay contacts? Any other suggestions such as adjustments that can be made? The previous owner used PSK31 as his principle operating mode.

Thanks,

Pete, N1TCH

23914. RE: [TS-520_820_530_830] 20 meters low power

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-12 15:41:39 UTC
From: Andrea Liverani
Topic: 23874 Message: 23914

Yes i know quite well how this radios should work
i have also 520S 520SE and 830M so i understand my radio behaves
incorrectly.
All my radio have smooth tuning and perfect alignment except this 820s.
I had also to completely restore the exterior because it was a smoker's
radio and it was abused very badly.. so i have washed all knobs and frontplate
and panels in my bath tub and i made brown water because it was really full of nicotine.
Then i repainted in exact color and finish the radio , the outer speaker and vfo.
Cleaned the inside (that was a lot better) and lubed it.
I have reconstructed the filter inside the external SP-820 because the previous owner
has dismantled all of them and just connected speaker to rear rca connector.
I have repaired the digital display that was dark (except the 100hz digit that is still not working)
changed 1 transistor, and two diodes because the previous owned made a short circuit trying to rewire the external vfo cable.
And every thing i fix i love more this phenomenal radio now we are at the last step....
Anyway i payed just 120$ for the whole line so i cannot ask more .... even if it was ready for the
dust bin and mine was the only offer on ebay ...

To: TS-520_820_530_830@yahoogroups.com
From: dave.crooks@aliceadsl.fr
Date: Sat, 12 Dec 2009 11:39:42 +0100
Subject: Re: [TS-520_820_530_830] 20 meters low power

OK Andrea,

Thanks for the video! Very clear.

I see that you have your rig meter set to RF.

Was it set to IP when you measured current?

Are you using a good dummy load?

Your readings indicate a nice rig that just needs some TLC.

Yes, the bandswitch does switch capacitors in the pi-network and it looks

like Mike's recommendation is the way to go. Work safely! Use the schematic.

Check that each rotor lifts the fixed contacts as it passes through them.

Check the couplings for movement.

Gordon knows the these band switches backwards and has posted excellent

photos on the group site.

I'm sure that Gordon and Mike will help if you need guidance.

Good luck.

73 Dave f4eyk

I tuoi amici sempre a portata di clic, sul nuovo Web Messenger
http://www.windowslive.it/foto.aspx

[Non-text portions of this message have been removed]

23915. DC-2

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-12 16:20:55 UTC
From: kb8dns
Topic: 23915 Message: 23915

I have one of these brand new and was wondering if there would be any interest in it? For those who are not familiar with the unit it is a DC to DC converter so the TS 820s can be used mobile. The two germanium transistors are no longer made so I guess it is kind of rare.

73 Rod KB8DNS

23916. Re: [TS-520_820_530_830] Gordon N6WK Question

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-12 17:00:20 UTC
From: stephan happe
Topic: 23892 Message: 23916

Just out of curiosity, what is the difference between the 6146b and the 6146a. I know they are not interchangeable in the Kenwood hybrids 73 steve ki6ikd

[Non-text portions of this message have been removed]

23917. RE: [TS-520_820_530_830] Need external VFO??

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-12 08:28:04 UTC
From: Andrea Liverani
Topic: 23906 Message: 23917

if you put your hand on a vfo-230 you get a very valuable objects. You get a very smooth tuning, (with a small mod on it just cutting some resistors)
you have a tuning three times smoother than original vfo so you can use digital modes easily. The vfo 230 has an optical encoder so it is a step further
in respect of the original enclosed vfo. You also get memories on your ts-830 and you can use it for setting 5 7.5 10 khz split for immediately qsy during pileups.
And vfo-230 has a separate display to show it's frequency. Is like having to radios at the same time , just without simultaneous listening.
For me is the best accessory you can add to a ts-830 and with vfo-230 you get a terrific dx machine. The problem is that vfo-230 is quite difficult to find.

_____
Di che umore sei oggi? Dillo con le Emoticon
http://intrattenimento.it.msn.com/emoticon

[Non-text portions of this message have been removed]

23918. 830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-12 17:43:11 UTC
From: Victor
Topic: 23784 Message: 23918

Mike
Another query. The drive control peaks the Tx but has a different setting for the Rx. I assume that the drive control is another name for pre-select and should come together on both Tx and Rx. For example, I can peak the calib sig but have to alter the setting to peak the IC. Maybe this is the norm but in my experience they should both line up together.
Or, is it just what it says 'Drive' and no connection with the RX.
Sorry to be a drag but it's nearly 30 years since I had one of these and I haven't learned to drive it yet!

Vic
G4JSS

23919. TS-520S Operating PSK31

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-12 18:29:45 UTC
From: scott10k
Topic: 23919 Message: 23919

Does anyone have some advice with regard to operating one of these hybrid rigs (TS-520S in my case) on PSK31? I have a Rigblaster interface. I assume I wil need to get a 4-pin to 8-pin adapter for the microphone hookup. Any advice from your experience would be appreciated.
73s, Scott, N6CIC

23920. TS-830S Parts for Sale

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-12 18:39:17 UTC
From: ah6rr1
Topic: 23920 Message: 23920

TS-830S Parts for Sale
VFO $40.00 plus shipping X2
Power Transformer $45.00 each plus shipping X2
RF Boards Band Wafers are good $45.00 +ship X2
IF Boards w/SSB Filter $50 each + ship X2
PLL Boards both have problems but repairable $15 ea.
AF Boards 1 with problem $10 1 good $20 +ship
Final Cage Parts all of them w/tube sockets $35.00 + ship
Display Boards I good $30 1 Needs work $10 + ship
I have 2 830's I am parting out if you need other parts let me know
If you want to buy a complete 830 we can talk about it I will only have 1 complete as I have sold some pots off one.
Roland AH6RR

23921. Re: broke my TS-520S (with keyer maybe)

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-12 18:47:34 UTC
From: kb9wwq
Topic: 23835 Message: 23921

Trav,

Something else to check for on the relay(s) is an intermittent connection between the contact reeds and the base pins. They appear to be tightly sandwiched togegher, but may not be electrically connected. I had one fail in my 820s. A tiny bit of solder solved the problem.

73, jay
kb9wwq

--- In TS-520_820_530_830@yahoogroups.com, "Trav" <jhotemw@...> wrote:
>
> Thanks for your help Mike. The VOX is off. And since this incident the TS-520s has started working again, both receive and transmit. In fact, I've made two QSO's using CW this week... and learned just how poor my own CW skills are... but that's another story.
>
> You gave some very good advice on the T/R relay and I will keep that in mind for the future. But right now I'm just happy to have a working rig again. (Though I still can't figure out why it quit working for several days, then came back again...???)
>
> Thanks to everyone for your responses. I'll be checking this forum frequently for good suggestions on caring for and using these workhorse tranceivers.
>
> 73s
> Jerry
> KF7FOW
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Jay is right. Heater switch OFF, the driver and both final tubes do not conduct which leads to no ALC in TUNE mode, no 60ma idling current, no dipping of the IP current, and no RF output.
> >
> > Next, the keyer itself did not damage the 520.
> >
> > The receiver front end appears to be working otherwise the calibrator signal would not be heard. My initial suspicion is the antenna change over relay between the final amplifier and the rear panel.
> >
> > To check this relay, remove top and bottom covers, turn the 520 upside down with the front panel facing you, and look at the left rear. Notice the small metal enclosure between the final amplifier and the rear panel. Remove the 2 screws holding the relay cover in place and remove the cover. Gently pull the relay from it's socket.
> >
> > Gently remove the relays plastic outer cover.

> >
> > Cut a strip of bond paper and wet it with contact cleaner. Slide the strip of paper between the relay contacts, repeating this step a number of times with new paper strips wet with contact cleaner until the paper strip no longer turns black. Do this to both side of the 4PDT relay contacts. You will have to manually press on the relay's armature. Just be careful not to damage the relay or bend the contacts. Once cleaning is completed, use canned air, available at Walmart in their computer/stereo section, and remove all residual cleaner and dirt. Reinstall the relay and test for operation.
> >
> > Try this first before attempting anything else. If your technical troubleshooting and repair skills are lacking then I recommend locating a local ham who has the skills to do this otherwise you could damage the T/R relay and create more problems in your 520 than you already have.
> >
> > 73s
> > Mike W5RKL
> >
>

23922. Re: [TS-520_820_530_830] DC-2

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-12 18:56:54 UTC
From: jsloss
Topic: 23915 Message: 23922

What are you asking for the DC-2? It would make my 820 copmplete.

Joe k7mks

[Non-text portions of this message have been removed]

23923. Re: 830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-12 19:58:18 UTC
From: w5rkl
Topic: 23784 Message: 23923

Vic,

Yes, the DRIVE control should peak the TX and RX together. Check the alignment against the 830 service manual.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Victor" <g4jss@...> wrote:
>
> Mike
> Another query. The drive control peaks the Tx but has a different setting for the Rx. I assume that the drive control is another name for pre-select and should come together on both Tx and Rx. For example, I can peak the calib sig but have to alter the setting to peak the IC. Maybe this is the norm but in my experience they should both line up together.
> Or, is it just what it says 'Drive' and no connection with the RX.
> Sorry to be a drag but it's nearly 30 years since I had one of these and I haven't learned to drive it yet!
>
> Vic
> G4JSS
>

23924. Re: [TS-520_820_530_830] TS-520S Operating PSK31

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-12 19:16:57 UTC
From: Chuck Goelz
Topic: 23919 Message: 23924

Hi Scott,

For what it's worth, I started in PSK using the 599 Twins and an experimental breadboarded interface to pad the soundcard output to an appropriate level for the mic input, and a direct connection from the speaker output to the soundcard input. It worked out surprisingly well! Just tune to 7035 (or the digital sub-band on any other band), USB, wide filter, and let the waterfall do the rest... Later I upgraded to a TS-440 with a cleaned-up interface and rig control which made things more automated, but there was never a problem with the Twins making contacts (except the lack of the 30m band!).

GL with the PSK...

Cheers, & 73,
Chuck WA3CEJ
----- Original Message -----
From: scott10k
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, December 12, 2009 1:29 PM
Subject: [TS-520_820_530_830] TS-520S Operating PSK31

Does anyone have some advice with regard to operating one of these hybrid rigs (TS-520S in my case) on PSK31? I have a Rigblaster interface. I assume I wil need to get a 4-pin to 8-pin adapter for the microphone hookup. Any advice from your experience would be appreciated.
73s, Scott, N6CIC

[Non-text portions of this message have been removed]

23925. TS-520S Operating PSK31

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-12 19:27:48 UTC
From: Howard R. Minnichbach
Topic: 23919 Message: 23925

I have a TS 530SP
I use it on PSK 31 all the time. The 530 has the digital freq. display so it makes it eaiser to get on freq. I use the rigblaster plus with the 8-pin to 4 pin adapter and a ps231 to usb adapter and it works flawlessly. When you tune up keep the carrier all the way up, and adjust your output with the mic gain. Also when you tune up you do not want any ALC on the meter. Run your rig at 50% or less power to keep your tubes happ HI HI. Keep an eye on your output so you do not splatter your signal.
Hope this helps.
73'S and see you on the waterfall
Howard
KC2TYZ

23926. DC-2

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-12 19:38:51 UTC
From: HPA II
Topic: 23915 Message: 23926

I guess that you did not get my email this morning! I asked how much?

harry,k6aom

[Non-text portions of this message have been removed]

23927. Re: TS-520S Operating PSK31

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-12 20:07:04 UTC
From: w5rkl
Topic: 23919 Message: 23927

Scott,

The 520 can adapt quite well to PSK. Simple make the TX and RX audio connections to the rear PHONE PATCH IN/OUT sockets on the rear panel. You could use VOX and not have to be concerned with PTT.

The main issue is stability. The 520 has an analog VFO that can and will drift even after a 30 minute warm up. It all depends on how much your 520 drifts. The main source of drift in the 520 is the 9VDC supply on the FIX CH AVR board. As long as the 9VDC supply is stable the 520 will remain stable. As the 9VDC supply drifts so does the VFO which leads to the 520 drift.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "scott10k" <scottandalene@...> wrote:
>
> Does anyone have some advice with regard to operating one of these hybrid rigs (TS-520S in my case) on PSK31? I have a Rigblaster interface. I assume I wil need to get a 4-pin to 8-pin adapter for the microphone hookup. Any advice from your experience would be appreciated.
> 73s, Scott, N6CIC
>

23928. Re: [TS-520_820_530_830] TS-520S Operating PSK31

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-12 20:09:56 UTC
From: k5lcl@sbcglobal.net
Topic: 23919 Message: 23928

Try http://home.att.net/~n8st/kenwood.html

I bought one of these for my TS-820, and it was VERY simple to hook it all up. Plug and Play!! Documentation provided gave complete hookup instructions. Wires were color coded so there was no guessing which wire went to which line on the computer. Does it sound simple? It was! Only thing, my TS-820 is not real stable with just a little frequency drift which made PSK a little more difficult than the newer solid state rigs. It was still very easy to hold PSK QSOs, but you had to pay attention to whether the radio was drifting or not. I think the interface cost me $40.00 or so. I was very happy with the purchase. Also it has about 6 foot cords on it each way, to the radio and the computer, so there is plenty of hookup line, just in case your radio and computer are not right next to each other.

----- Original Message -----
From: scott10k
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, December 12, 2009 12:29 PM
Subject: [TS-520_820_530_830] TS-520S Operating PSK31

Does anyone have some advice with regard to operating one of these hybrid rigs (TS-520S in my case) on PSK31? I have a Rigblaster interface. I assume I wil need to get a 4-pin to 8-pin adapter for the microphone hookup. Any advice from your experience would be appreciated.
73s, Scott, N6CIC

[Non-text portions of this message have been removed]

23929. Re: TS-520S Operating PSK31

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-12 20:15:18 UTC
From: w5rkl
Topic: 23919 Message: 23929

There is quite a difference between a TS-520 and a TS-530, especially in frequency stability. The stability in the 530 is much better than in the 520 due, in part, to the method used to produce the operating TX frequencies and the processing of incoming RX signals. This leads to a much more stable radio in both TX and RX in the 530 verses the 520.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Howard R. Minnichbach" <seastarswg@...> wrote:
>
> I have a TS 530SP
> I use it on PSK 31 all the time. The 530 has the digital freq. display
> so it makes it eaiser to get on freq. I use the rigblaster plus with the
> 8-pin to 4 pin adapter and a ps231 to usb adapter and it works
> flawlessly. When you tune up keep the carrier all the way up, and adjust
> your output with the mic gain. Also when you tune up you do not want any
> ALC on the meter. Run your rig at 50% or less power to keep your tubes
> happ HI HI. Keep an eye on your output so you do not splatter your signal.
> Hope this helps.
> 73'S and see you on the waterfall
> Howard
> KC2TYZ
>

23930. Re: TS-830 Cathode Resistors

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-12 20:16:39 UTC
From: f_canuso
Topic: 23517 Message: 23930

This is a followup to my original post back on November 19. The problem with my TS-830 has been resolved thanks to the information posted by Wim, PA0PGA. He suggested that the blown cathode resistors could be caused by a leaking ceramic disc capacitor on the final board (C1 - 100pf/500v). I replaced that capacitor with a 100pf/1kv unit and sure enough, no more blown cathode resistors. Many thanks to Wim and the others who offered help with resolving this problem.

Happy Holidays and 73,
Tony (N2ATB)

--- In TS-520_820_530_830@yahoogroups.com, "f_canuso" <f_canuso@...> wrote:
>
> My TS-830 has been experiencing cathode resistor failures while transmitting. Thinking that it might be a bad final tube, I installed new resistors, changed both final tubes (using GE 6146B) and neutralized them. I put the radio back on the air and it worked for a short while before the cathode resistors failed again. Just prior to the resistors failing, I noticed the outpower rising while transmitting.
>
> If anyone can offer a suggestion regarding where to go from here with troubleshooting this problem, it would be much appreciated.
>
> 73,
> Tony (N2ATB)
>

23931. Re: DC-2

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-12 20:27:09 UTC
From: w5rkl
Topic: 23915 Message: 23931

If this is the Kenwood DC to DC converter to allow the 820 to operate mobile from a 13.6VDC source then it is not a DC-2 but rather a "DS-1A DC-To-DC Converter". The DS-1A will work with either the TS-520S/SE or the 820/820S. The original TS-520 already came from the factory with a DC-to-DC converter mounted on the rear panel. Kenwood made the DS-1A DC-to-DC converter an optional accessory for the TS-520S, TS-520SE, and both TS-820 models.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "kb8dns" <kb8dns@...> wrote:
>
> I have one of these brand new and was wondering if there would be any interest in it? For those who are not familiar with the unit it is a DC to DC converter so the TS 820s can be used mobile. The two germanium transistors are no longer made so I guess it is kind of rare.
>
> 73 Rod KB8DNS
>

23933. Re: [TS-520_820_530_830] TS-520S Operating PSK31

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-12 21:07:36 UTC
From: Chuck Goelz
Topic: 23919 Message: 23933

Scott,

after reading Howard's response, I knew that I should have included similar content in my first reply! I agree 100% with his comments about adjusting the mic gain -- No ALC at all, no more than 50% power. I used to run the T-599 at 20-40% power.

Stability was never a problem on my R-599 (it was never powered off), but as Mike pointed out it could be an issue -- but an issue that you can work with. Not sure about other PSK software out there, but the package I use has AFC in the audio processing (I use WinWarbler, included with the DxLab Suite -- FREE!), and it will "follow" a moderate amount of drift.

Go for it Scott, it's a fun mode with lots of opportunity for DX, even with a modest station and antenna. Hook it up, try it out, and post your questions here!

Cheers & 73,
Chuck WA3CEJ

----- Original Message -----
From: Howard R. Minnichbach
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, December 12, 2009 2:27 PM
Subject: [TS-520_820_530_830] TS-520S Operating PSK31

I have a TS 530SP
I use it on PSK 31 all the time. The 530 has the digital freq. display
so it makes it eaiser to get on freq. I use the rigblaster plus with the
8-pin to 4 pin adapter and a ps231 to usb adapter and it works
flawlessly. When you tune up keep the carrier all the way up, and adjust
your output with the mic gain. Also when you tune up you do not want any
ALC on the meter. Run your rig at 50% or less power to keep your tubes
happ HI HI. Keep an eye on your output so you do not splatter your signal.
Hope this helps.
73'S and see you on the waterfall
Howard
KC2TYZ

[Non-text portions of this message have been removed]

23934. Re: TS-520S Operating PSK31

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-12 21:51:05 UTC
From: w5rkl
Topic: 23919 Message: 23934

If you replace Q4 (2SC373) and D3 (6 volt zener) the stability of the 520 will be significantly improved.

The 520 has the same basic 9VDC circuit the 820 has. The circuit is the same but the components are different. I have an 820 that had quite a bit of drift. I replace the regulator transistor and zener diode. Afterwards the 820's drift was significantly less, well within factory specs.

I'm not trying to discourage you from operating PSK with your 520. I'm simply providing you with information you may not already have been given in response to your question.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Chuck Goelz" <c.goelz@...> wrote:
>
> Scott,
>
> after reading Howard's response, I knew that I should have included similar content in my first reply! I agree 100% with his comments about adjusting the mic gain -- No ALC at all, no more than 50% power. I used to run the T-599 at 20-40% power.
>
> Stability was never a problem on my R-599 (it was never powered off), but as Mike pointed out it could be an issue -- but an issue that you can work with. Not sure about other PSK software out there, but the package I use has AFC in the audio processing (I use WinWarbler, included with the DxLab Suite -- FREE!), and it will "follow" a moderate amount of drift.
>
> Go for it Scott, it's a fun mode with lots of opportunity for DX, even with a modest station and antenna. Hook it up, try it out, and post your questions here!
>
> Cheers & 73,
> Chuck WA3CEJ
>
> ----- Original Message -----
> From: Howard R. Minnichbach
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, December 12, 2009 2:27 PM
> Subject: [TS-520_820_530_830] TS-520S Operating PSK31
>
>
>
>
> I have a TS 530SP
> I use it on PSK 31 all the time. The 530 has the digital freq. display
> so it makes it eaiser to get on freq. I use the rigblaster plus with the
> 8-pin to 4 pin adapter and a ps231 to usb adapter and it works

> flawlessly. When you tune up keep the carrier all the way up, and adjust
> your output with the mic gain. Also when you tune up you do not want any
> ALC on the meter. Run your rig at 50% or less power to keep your tubes
> happ HI HI. Keep an eye on your output so you do not splatter your signal.
> Hope this helps.
> 73'S and see you on the waterfall
> Howard
> KC2TYZ
>
>
>
>
> [Non-text portions of this message have been removed]
>

23935. Re: [TS-520_820_530_830] 830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-13 04:18:34 UTC
From: John Davidson
Topic: 23784 Message: 23935

YES THE DRIVE AND RECVR PRESELECT TUNING ARE ON ONE SHAFT. ALIGNING THE COILS ON THE BOTTOM OF A ts520 PER INSTRUCTIONS IN SERVICE MANUAL WILL STRAIGHTEN EVERYTHING OUT.

--- On Sat, 12/12/09, Victor <g4jss@...> wrote:

From: Victor <g4jss@...>
Subject: [TS-520_820_530_830] 830S
To: TS-520_820_530_830@yahoogroups.com
Date: Saturday, December 12, 2009, 12:43 PM

Mike
Another query. The drive control peaks the Tx but has a different setting for the Rx. I assume that the drive control is another name for pre-select and should come together on both Tx and Rx. For example, I can peak the calib sig but have to alter the setting to peak the IC. Maybe this is the norm but in my experience they should both line up together.
Or, is it just what it says 'Drive' and no connection with the RX.
Sorry to be a drag but it's nearly 30 years since I had one of these and I haven't learned to drive it yet!

Vic
G4JSS

[Non-text portions of this message have been removed]

23936. Re: [TS-520_820_530_830] TS-520S Operating PSK31

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-13 04:50:06 UTC
From: Chris and Alex
Topic: 23919 Message: 23936

I run a 520 SE for psk31 with no problems at all. Don't use the mic socket.
Use the phone patch sockets on the rear of the set. Tune for full power and
then
keep Ip at just over 100mA by using the mic control when you transmit. Use
AF gain to control the waterfall. This will give you about 35 watts out
which is plenty. Don't use the processor and N/B must be off. The only time
I get drift is if Ip is set too high on transmit.

73 Chris

2009/12/12 Howard R. Minnichbach <seastarswg@...>

>
>
> I have a TS 530SP
> I use it on PSK 31 all the time. The 530 has the digital freq. display
> so it makes it eaiser to get on freq. I use the rigblaster plus with the
> 8-pin to 4 pin adapter and a ps231 to usb adapter and it works
> flawlessly. When you tune up keep the carrier all the way up, and adjust
> your output with the mic gain. Also when you tune up you do not want any
> ALC on the meter. Run your rig at 50% or less power to keep your tubes
> happ HI HI. Keep an eye on your output so you do not splatter your signal.
> Hope this helps.
> 73'S and see you on the waterfall
> Howard
> KC2TYZ
>
>

[Non-text portions of this message have been removed]

23937. Re: TS-520S Operating PSK31

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-13 06:08:22 UTC
From: scott10k
Topic: 23919 Message: 23937

Thanks to everyone for your prompt and helpful replies. I hadn't even thought about using the rear phone patch connections for the hookups. My TS-520S seems pretty stable once it is warmed up, so I will give it a try.
thanks again, 73s, Scott, N6CIC

--- In TS-520_820_530_830@yahoogroups.com, Chris and Alex <alexandchrisp@...> wrote:
>
> I run a 520 SE for psk31 with no problems at all. Don't use the mic socket.
> Use the phone patch sockets on the rear of the set. Tune for full power and
> then
> keep Ip at just over 100mA by using the mic control when you transmit. Use
> AF gain to control the waterfall. This will give you about 35 watts out
> which is plenty. Don't use the processor and N/B must be off. The only time
> I get drift is if Ip is set too high on transmit.
>
> 73 Chris
>
>
> 2009/12/12 Howard R. Minnichbach <seastarswg@...>
>
> >
> >
> > I have a TS 530SP
> > I use it on PSK 31 all the time. The 530 has the digital freq. display
> > so it makes it eaiser to get on freq. I use the rigblaster plus with the
> > 8-pin to 4 pin adapter and a ps231 to usb adapter and it works
> > flawlessly. When you tune up keep the carrier all the way up, and adjust
> > your output with the mic gain. Also when you tune up you do not want any
> > ALC on the meter. Run your rig at 50% or less power to keep your tubes
> > happ HI HI. Keep an eye on your output so you do not splatter your signal.
> > Hope this helps.
> > 73'S and see you on the waterfall
> > Howard
> > KC2TYZ
> >
> >
>
>
> [Non-text portions of this message have been removed]
>

23938. Re: [TS-520_820_530_830] Re: TS-520S Operating PSK31

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-13 19:09:58 UTC
From: martin
Topic: 23919 Message: 23938

Hi Guys. Having written a few emails about this subject in the last couple of years, I decided to create this document to more easily share this method of checking frequency drift in transceivers and receivers.

What you need:

A transceiver or receiver to test of course.
A computer with a sound card.
A way to get audio from the radio to the sound card. See the text below.
A PSK31 program. I use Digipan.

You can measure the amount of drift that you have in the following manner:

If you are set up for PSK or other digital mode operation. connect your interface. If not, you can connect a cable from the headphone jack on the radio to the line in on your computer sound card, or even just place mic connected to the computer sound card near the radio speaker. I have also placed an ear bud (connected to the headphone jack of the radio) next to the mic on my ancient laptop (this would probably work with about any mic connected to the sound card of any computer).

Tune the radio to WWV, and start your PSK software. I use Digipan. Tune the VFO so that you see the WWV carrier on the waterfall display. You may have to adjust the mixer input controls on the computer, and the AF gain (volume) on the radio. Click on the center of the carrier, and write down the time and the audio frequency shown in the program. Check again at 15 minute intervals, and write down the time and audio frequency. The difference in the audio frequency is the amount of drift. After about 20 minutes or so, the drift should be minimal(50Hz or less in any 15 minute period after warm-up)

Since WWV is a frequency standard, what you are seeing is the VFO drift (and and drift in the sound card if any).

I have used this method for years. It is pretty accurate. How do I know its accurate? Well, the results agree with the results measuring transmit frequency with a frequency counter. A frequency counter is not always available. My Kenwood TS-530S drifts about 100 HZ per half hour after warm-up. My Kenwood TS-130SE drifts about 27Hz per hour, which is very good for a radio with a mechanical VFO (not PLL synthesized frequency control).

Older radios with mechanical VFOs will experience frequency drift. In any of the older Kenwood radios that I have owned, this has always

been within the radio's specs, and has not been a problem for
PSK31/SSTV/digital mode operations.

TTYL
--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

23939. TestEquipment for a Kenwood TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-13 19:09:19 UTC
From: Dduglas
Topic: 23939 Message: 23939

I was an electronics tech in the military back in the late 70's. I just came across an old TS-520 and an AT-200. I bought them, and then got my Technician license, (still awaiting the call sign from the FCC). All I have is a cheap VOM. I am wondering what test equipment I should be looking for to keep the TS-520 working and tuned. My budget for this is limited, so I want to get the most bang for the buck. Any suggestions?

23940. RE: [TS-520_820_530_830] TestEquipment for a Kenwood TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-13 23:38:55 UTC
From: Dick Merryman
Topic: 23939 Message: 23940

Douglas-

Look on page 45 of the service manual - it gives a list of everything required to perform all of the alignment tasks. The bare necessities would be a VOM that read to 1000V, a scope and a counter. If you get the DG-5 digital readout for the TS-520 you'll have a built-in counter.

Surplus Tektronix scopes can be had very cheaply on eBay. I got a 100 MHz dual trace for $100.

As you get to know the 520 you can increase your test equipment. Work on upgrading your license so you can take advantage of all the bands. As a past ET you should not have any problems - it all comes rushing back once you start.

-Dick-
N3XRU

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Dduglas
Sent: Sunday, December 13, 2009 11:09 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TestEquipment for a Kenwood TS-520

I was an electronics tech in the military back in the late 70's. I just came across an old TS-520 and an AT-200. I bought them, and then got my Technician license, (still awaiting the call sign from the FCC). All I have is a cheap VOM. I am wondering what test equipment I should be looking for to keep the TS-520 working and tuned. My budget for this is limited, so I want to get the most bang for the buck. Any suggestions?

[Non-text portions of this message have been removed]

23941. TS-520S 4 Page Color Brochure.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-14 00:22:19 UTC
From: jsloss
Topic: 23941 Message: 23941

FREE! Give me your adr.

Joe k7mks

[Non-text portions of this message have been removed]

23942. Re: [TS-520_820_530_830] TS-520S 4 Page Color Brochure.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-14 00:29:26 UTC
From: Bert Morton
Topic: 23941 Message: 23942

Bert Morton W1DFU
156 Clarendon Road
Wallingford, VT 05773

----- Original Message -----
From: "jsloss" <k7mks@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, December 13, 2009 7:22 PM
Subject: [TS-520_820_530_830] TS-520S 4 Page Color Brochure.

> FREE! Give me your adr.
>
> Joe k7mks
>
> [Non-text portions of this message have been removed]
>
>

23944. Re: [TS-520_820_530_830] TestEquipment for a Kenwood TS-520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-13 23:42:59 UTC
From: martin
Topic: 23939 Message: 23944

Hi. One thing that you will need is a dummy load to tune the radio up
into.

TTYL

Dduglas wrote:
> I was an electronics tech in the military back in the late 70's. I
> just came across an old TS-520 and an AT-200. I bought them, and
> then got my Technician license, (still awaiting the call sign from
> the FCC). All I have is a cheap VOM. I am wondering what test
> equipment I should be looking for to keep the TS-520 working and
> tuned. My budget for this is limited, so I want to get the most
> bang for the buck. Any suggestions?
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> ------------------------------------
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> Yahoo! Groups Links
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>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

23945. Re: [TS-520_820_530_830] TS-520S 4 Page Color Brochure.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-14 05:14:59 UTC
From: jsloss
Topic: 23941 Message: 23945

Bert: I'm sorry but it is spoken for.

Joe

[Non-text portions of this message have been removed]

23946. audio transmit gain on ts 820 low

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-14 17:18:43 UTC
From: j_52_cooper
Topic: 23946 Message: 23946

I have a condition on my ts 820s whereby I seem to need more and more audio gain on transmit in order to achieve full output. At present the gain must be turned almost to "8" whereas it seems years before it was much less, say 4 or 5. Note that if I run a carrier signal only there is plenty of drive, but when I switch to mic there needs to be considerably more gain. Any ideas?

Joel/ nb9n

23947. Re: audio transmit gain on ts 820 low

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-14 20:00:21 UTC
From: w5rkl
Topic: 23946 Message: 23947

How are you measuring full output in sideband verses CW (a watt meter or the 820's RF meter setting)?

If it is a watt meter, is the watt meter an average watt meter or a PEP watt meter.

If it's the 820's RF meter setting then the meter displays simple rectified RF voltage into a DC voltage that is applied through the rear panel's RF level pot to the meter. The RF meter setting simply displays a "relative" level of RF at the rear coax connector, nothing more.

Is the microphone you are using a high impedance microphone (50K or higher) or a low impedance microphone (5K)? Have you also tried other high impedance microphones to compare the differences?

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "j_52_cooper" <j_52_cooper@...> wrote:
>
> I have a condition on my ts 820s whereby I seem to need more and more audio gain on transmit in order to achieve full output. At present the gain must be turned almost to "8" whereas it seems years before it was much less, say 4 or 5. Note that if I run a carrier signal only there is plenty of drive, but when I switch to mic there needs to be considerably more gain. Any ideas?
>
> Joel/ nb9n
>

23948. Re: TS-520S Operating PSK31

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-14 19:52:10 UTC
From: SymonK
Topic: 23919 Message: 23948

--- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@...> wrote:
>
> Hi Guys. Having written a few emails about this subject in the last
> couple of years, I decided to create this document to more easily
> share this method of checking frequency drift in transceivers and
> receivers.
>

Great idea for measuring drift on receive. Well done!
73 to you and all in the group,
Symon, G4DND

23949. Re: TS-520S Operating PSK31

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-14 23:22:21 UTC
From: Music Maker
Topic: 23919 Message: 23949

Hi Folks,

Here is a way to measure drift - no equipment or technical knowledge needed.

Promise me you won't laugh !! !!

To check - (say) on 20 Metre Band. Switch on '25KHz' on the VFO knob. Tune the rig to where the Crystal Osc gives you a Signal (lets say at 14.000) Ask the wife or kids to keep hitting 'middle 'C' on your Piano, Organ or Keyboard, and tune the tuning dial until the same note is coming from your rig. Turn down the AF Gain - take the dog for a walk - have a cup of coffee, and 30 mins later turn up the AF gain and see what note your rig now matches with. Look up the notes frequency on Google, subtract the lowest from the highest, and VOILA! Thats how far your rig drifted in 30 mins. Easy Peasy !! (Middle 'C'is 440 Hz by the way !!).

I don't know if it works or not, but I just read this thread and thought of it !! Thats the way your brain works at my age (I used to have 'Premature Senile Dementure' - I am much better now, as I just have 'Senile Dementure') !!

Seasons Greetings to All, vy 73's de G3OBU,

John

--- In TS-520_820_530_830@yahoogroups.com, "SymonK" <torview@...> wrote:
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@> wrote:
> >
> > Hi Guys. Having written a few emails about this subject in the last
> > couple of years, I decided to create this document to more easily
> > share this method of checking frequency drift in transceivers and
> > receivers.
> >
>
> Great idea for measuring drift on receive. Well done!
> 73 to you and all in the group,
> Symon, G4DND
>

23950. RTTY & CW Reception

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-14 23:38:22 UTC
From: Music Maker
Topic: 23950 Message: 23950

Hi All,

I wonder, just wonder - Is anyone using a program called 'MULTIPSK' ?

For the moment, I am just trying to get it to work on receive - with the connection from my Loudspeaker Socket into the Mic Socket on my Computer. I get nothing on CW, or on PSK, but do get a string of 'Garble' on RTTY. (I have also tried the 'Lene in')

Years ago, I used to use a 'Commodore 64' (Before PCs came out!), and had a great program that I could Tx and RX with (and do SSTV), and it all came on one 720K Floppy!

I get the 'waterfall, and spectrum graphs, and have tried moving the cursor on to every 'peak' - but Nada, nothing, zero, zilch!

Is anyone else using any FREE software that is simpler to use that I can also use without a TNC or Modem ?

Thanks in advance ....

John G3OBU

23951. Re: [TS-520_820_530_830] RTTY & CW Reception

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-15 00:19:07 UTC
From: Chuck Goelz
Topic: 23950 Message: 23951

John,

You could try DxLab Suite (free download at www.dxlabsuite.com). It consists of individual components for logging, callbook lookups, propagation forecasting, award tracking, rig control (not applicable to hybrids!), eQSL & LotW submissions, and the part you may want, WinWarbler for RTTY and PSK (31, 63, and 125). None of the components require any other component... Support directly from the author via the Dxlab Yahoo group is superb!

I used this suite with my 599 Twins using just simple connections to the soundcard (some padding of signal levels (both ways) was required).

I haven't used multipsk, but have worked many who do... Apparently it does work! But maybe WinWarbler will be more to your liking. If you have any questions about, feel free to contact me off-list, or reply here...

Cheers & GL,
Chuck WA3CEJ

----- Original Message -----
From: Music Maker
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, December 14, 2009 6:38 PM
Subject: [TS-520_820_530_830] RTTY & CW Reception

Hi All,

I wonder, just wonder - Is anyone using a program called 'MULTIPSK' ?

For the moment, I am just trying to get it to work on receive - with the connection from my Loudspeaker Socket into the Mic Socket on my Computer. I get nothing on CW, or on PSK, but do get a string of 'Garble' on RTTY. (I have also tried the 'Lene in')

Years ago, I used to use a 'Commodore 64' (Before PCs came out!), and had a great program that I could Tx and RX with (and do SSTV), and it all came on one 720K Floppy!

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Is anyone else using any FREE software that is simpler to use that I can also use without a TNC or Modem ?

Thanks in advance ....

John G3OBU

[Non-text portions of this message have been removed]

23952. TS-820 Power Transformer

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-15 01:40:31 UTC
From: trippkj4bkd
Topic: 23952 Message: 23952

Hello to all on the group.

Checking AC power at the 800v side of the transformer, what voltage should I be reading?

I have been told that it should be at least 1000v.

Should I check with the rectifier board disconnected from the 800v side of the transformer and the high voltage Cap disconnected from the 0v side of the transformer?

Checking this way only yeilds 340v AC with or without the wires attached.

It was bear to put in and I have double checked to be sure I haven't wired the 220v,110v switch wires backwards which could cause about half the voltage to be read as I understand.

I appreciate any help with this.

Tripp

23953. Re: [TS-520_820_530_830] RTTY & CW Reception

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-15 04:43:45 UTC
From: Chris and Alex
Topic: 23950 Message: 23953

Hi John,

I find that Digipan works well for bpsk31. Most of the Gremlins seem to live in the PC sound card. Disable all inputs and outputs that your not using and make sure that any sound card effects are off. If you're running a laptop make sure the on board mic is turned off. The sample rate needs to be set at 11025

73 Chris

2009/12/15 Music Maker <jhaddleton@...>

>
>
>
>
> Hi All,
>
> I wonder, just wonder - Is anyone using a program called 'MULTIPSK' ?
>
> For the moment, I am just trying to get it to work on receive - with the
> connection from my Loudspeaker Socket into the Mic Socket on my Computer. I
> get nothing on CW, or on PSK, but do get a string of 'Garble' on RTTY. (I
> have also tried the 'Lene in')
>
> Years ago, I used to use a 'Commodore 64' (Before PCs came out!), and had a
> great program that I could Tx and RX with (and do SSTV), and it all came on
> one 720K Floppy!
>
> I get the 'waterfall, and spectrum graphs, and have tried moving the cursor
> on to every 'peak' - but Nada, nothing, zero, zilch!
>
> Is anyone else using any FREE software that is simpler to use that I can
> also use without a TNC or Modem ?
>
> Thanks in advance ....
>
> John G3OBU
>
>
>

[Non-text portions of this message have been removed]

23954. Screeching Reception

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-15 07:33:27 UTC
From: kshitij mathur
Topic: 23954 Message: 23954

Dear all Seniors

Since last few days I am observing that whenever I try to tune my TS520SE to a signal on 20 Mt band- I receive screeching signal just few kc up and down of the exact frequency- once I hit the exact frequency then I hear an intelligent signal- but if I shift a bit here and there the signal becomes screeching- what could be he problem?? I am worried specially because This is the only rig I have which keeps me connected me with rest of the world.

This phenomenon is less on 40 mtr band but prominent on 20 mtr. with most of the incommming signals.

Does that mean my anteena is not correct (I checked with 20 Mtr short Beam as well as with Dipole) OR people have started using different technique for transmitting ?

Please Help.

73

KSHITIJ
VU2CDW

The INTERNET now has a personality. YOURS! See your Yahoo! Homepage. http://in.yahoo.com/

[Non-text portions of this message have been removed]

23955. Re: [TS-520_820_530_830] RTTY & CW Reception

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-15 06:05:56 UTC
From: martin
Topic: 23950 Message: 23955

Hi John. I suspect that you have a large impedance and sound level mismatch! Try connecting the headphone jack on the radio to the line in on the sound card. You will have to also try setting the levels both with the radio's AF Gain, and with the computer sound card line in level control.

I like Digipan, but there are several free programs that you can try. FLdigi looks like a good one, but it won't run on the ancient laptop that I use for PSK31, SSTV, and RTTY.

As far as CW, computers seem to have a lot of trouble decoding CW unless it is sent by another computer.

Keep trying, and you will get it working! I will help all that I can.

TTYL

Music Maker wrote:
>
> Hi All,
>
> I wonder, just wonder - Is anyone using a program called 'MULTIPSK'
> ?
>
> For the moment, I am just trying to get it to work on receive -
> with the connection from my Loudspeaker Socket into the Mic Socket
> on my Computer. I get nothing on CW, or on PSK, but do get a
> string of 'Garble' on RTTY. (I have also tried the 'Lene in')
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> the cursor on to every 'peak' - but Nada, nothing, zero, zilch!
>
> Is anyone else using any FREE software that is simpler to use that
> I can also use without a TNC or Modem ?
>
> Thanks in advance ....
>
> John G3OBU
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> Yahoo! Groups Links
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CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

23956. Re: TS-820 Power Transformer

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-15 12:11:30 UTC
From: w5rkl
Topic: 23952 Message: 23956

--- In TS-520_820_530_830@yahoogroups.com, "trippkj4bkd" <thomasenglish3@...> wrote:
>
> Hello to all on the group.
>
> Checking AC power at the 800v side of the transformer, what voltage should I be reading?
>
> I have been told that it should be at least 1000v.

No, not true. Who ever told you that does not know the hybrids have a voltage doubling circuit in the HV supply!

I recommend you do some reading of the following chapters in the ARRL handbooks.

1. Electrical Laws and Circuits

and

2. Power Supplies

Read Electrical Laws and Circuits chapter first before going on to the Power Supplies chapter. If you have questions on topics or statements made in the chapters, come back here and ask.

>
> Should I check with the rectifier board disconnected from the 800v
> side of the transformer and the high voltage Cap disconnected from
> the 0v side of the transformer?

Measure the HV on the Rectifier Unit's "800" terminal 'NOT' the "AC800" terminal. The voltage at the "800" terminal is the voltage doubled DC voltage which will be the same voltage displayed on the 820's HV metering setting with the 820 in transmit.

>
> Checking this way only yeilds 340v AC with or without the wires attached.
>
> It was bear to put in and I have double checked to be sure I haven't wired the 220v,110v switch wires backwards which could cause about half the voltage to be read as I understand.
>
> I appreciate any help with this.
>
>
> Tripp
>

23957. Re: RTTY & CW Reception

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-15 12:48:21 UTC
From: w5rkl
Topic: 23950 Message: 23957

The typical impedance of a sound card's "Line-in" connection is 47K.

The typical impedance of a sound card's "microphone" connection is "600 ohms".

The typical impedance of a sound card's "CD input" is 50K.

A typical radio's speaker impedance is 8 ohms

A typical radio rear DIN audio connection may be different, possibly 600 ohms. Consult your radio's operator's or service manual for details.

A typical radio's microphone impedance is 600 to 5K ohms (modern day radios) or 50K and higher (most vintage ham gear such as Drake TR4, Heathkit SB-101, and Kenwood TS-520). The rear apron DIN audio connections may be difference so consult the operators and/or service manuals for your radio.

Don't "guess" at the impedance. Find out what it is and make every effort to "match" the two otherwise you will not achieve maximum efficiency and the cleanest signal possible on the air. It's not always about no ALC meter indication.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@...> wrote:
>
> Hi John. I suspect that you have a large impedance and sound level
> mismatch! Try connecting the headphone jack on the radio to the line
> in on the sound card. You will have to also try setting the levels
> both with the radio's AF Gain, and with the computer sound card line
> in level control.
>
> I like Digipan, but there are several free programs that you can try.
> FLdigi looks like a good one, but it won't run on the ancient laptop
> that I use for PSK31, SSTV, and RTTY.
>
> As far as CW, computers seem to have a lot of trouble decoding CW
> unless it is sent by another computer.
>
> Keep trying, and you will get it working! I will help all that I can.
>
> TTYL
>
>
>
> Music Maker wrote:
> >
> > Hi All,

> >
> > I wonder, just wonder - Is anyone using a program called 'MULTIPSK'
> > ?
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> > For the moment, I am just trying to get it to work on receive -
> > with the connection from my Loudspeaker Socket into the Mic Socket
> > on my Computer. I get nothing on CW, or on PSK, but do get a
> > string of 'Garble' on RTTY. (I have also tried the 'Lene in')
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> > Years ago, I used to use a 'Commodore 64' (Before PCs came out!),
> > and had a great program that I could Tx and RX with (and do SSTV),
> > and it all came on one 720K Floppy!
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> > I get the 'waterfall, and spectrum graphs, and have tried moving
> > the cursor on to every 'peak' - but Nada, nothing, zero, zilch!
> >
> > Is anyone else using any FREE software that is simpler to use that
> > I can also use without a TNC or Modem ?
> >
> > Thanks in advance ....
> >
> > John G3OBU
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> >
> > Yahoo! Groups Links
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> CUL8R
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> KBOHAE kb0hae@... Martin Campbell
>
> A Satisfied Sidux Linux user! To get Sidux go to:
> www.sidux.com/index.html
> "Protect your digital freedom and privacy, eliminate DRM, learn more
> at http://www.defectivebydesign.org/what_is_drm"
>

23958. Re: RTTY & CW Reception

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-15 04:59:55 UTC
From: Music Maker
Topic: 23950 Message: 23958

Hi Chris, and thank you.

Your Post has enlightened me a lot, and makes good sense. I will go into the Soundcard 'Properties' and disable all currently unused inputs. Please see my other response, as to progress so far, and I think that with the actions I describe there, plus your suggestion, I may be getting towards solutions.

Once again, Thanks very much,

John G3OBU

--- In TS-520_820_530_830@yahoogroups.com, Chris and Alex <alexandchrisp@...> wrote:
>
> Hi John,
>
> I find that Digipan works well for bpsk31. Most of the Gremlins seem to live
> in the PC sound card. Disable all inputs and outputs that your not using and
> make sure that any sound card effects are off. If you're running a laptop
> make sure the on board mic is turned off. The sample rate needs to be set
> at 11025
>
> 73 Chris
>
> 2009/12/15 Music Maker <jhaddleton@...>
>
> >
> >
> >
> >
> > Hi All,
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> > I wonder, just wonder - Is anyone using a program called 'MULTIPSK' ?
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> >
> > John G3OBU
> >
> >
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>
> [Non-text portions of this message have been removed]
>

23959. Re: RTTY & CW Reception

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-15 14:37:00 UTC
From: Music Maker
Topic: 23950 Message: 23959

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.
Again, may I thank everyone responding to my query, for their time and expertise. I am taking it all 'on board', but not actually doing anything, until a 'proper' 3,5mm to 6.5mm shielded patch lead arrives that I have ordered. The present one I have made up, is a bit of a 'bodged' job!

Knowing that the interconnection between Transceiver and computer is correct, I can then move forward. As well as matching impedances and disabling other sections of the sound card, I came across a very useful (To Everyone!) Article on the net on just this topic, and it mentions 'Earthing', and 'RF loops'. Very enlightening - to me at least!

I have posted the article in the files section, as a .wps (word) document for members to read, both now and in the future - Its called 'Hum and Noise Solutions' - I have acknowledged the author at the end of it.

Thanks to all you great members who spend time and effort answering stupid queries from less knowledgeable Ops like myself. This Group has a wealth of talent, ready to be tapped at any time. What a pity that all the answers to these queries are not filed away in an easy to find reference system, possibly as FAQs or similar - they must have provided a wealth of written information over the past years.

Once again, many thanks, I will report back, when I have explored the avenues suggested so far.

Kind thoughts to all and 73's de G3OBU

John

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> The typical impedance of a sound card's "Line-in" connection is 47K.
>
> The typical impedance of a sound card's "microphone" connection is "600 ohms".
>
> The typical impedance of a sound card's "CD input" is 50K.
>
> A typical radio's speaker impedance is 8 ohms
>
> A typical radio rear DIN audio connection may be different, possibly 600 ohms. Consult your radio's operator's or service manual for details.
>
> A typical radio's microphone impedance is 600 to 5K ohms (modern day radios) or 50K and higher (most vintage ham gear such as Drake TR4, Heathkit SB-101, and Kenwood TS-520). The rear apron DIN audio connections may be difference so consult the operators and/or service manuals for your radio.

>
> Don't "guess" at the impedance. Find out what it is and make every effort to "match" the two otherwise you will not achieve maximum efficiency and the cleanest signal possible on the air. It's not always about no ALC meter indication.
>
>
> 73s
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@> wrote:
> >
> > Hi John. I suspect that you have a large impedance and sound level
> > mismatch! Try connecting the headphone jack on the radio to the line
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> > both with the radio's AF Gain, and with the computer sound card line
> > in level control.
> >
> > I like Digipan, but there are several free programs that you can try.
> > FLdigi looks like a good one, but it won't run on the ancient laptop
> > that I use for PSK31, SSTV, and RTTY.
> >
> > As far as CW, computers seem to have a lot of trouble decoding CW
> > unless it is sent by another computer.
> >
> > Keep trying, and you will get it working! I will help all that I can.
> >
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> >
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> >
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> > >
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> > > I get the 'waterfall, and spectrum graphs, and have tried moving
> > > the cursor on to every 'peak' - but Nada, nothing, zero, zilch!
> > >

> > > Is anyone else using any FREE software that is simpler to use that
> > > I can also use without a TNC or Modem ?
> > >
> > > Thanks in advance ....
> > >
> > > John G3OBU
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> > KBOHAE kb0hae@ Martin Campbell
> >
> > A Satisfied Sidux Linux user! To get Sidux go to:
> > www.sidux.com/index.html
> > "Protect your digital freedom and privacy, eliminate DRM, learn more
> > at http://www.defectivebydesign.org/what_is_drm"
> >
>

23960. Re: RTTY & CW Reception

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-15 04:53:59 UTC
From: Music Maker
Topic: 23950 Message: 23960

Thanks Chuck,

Thank you for your speedy response, and helpful post.

I have downloaded the whole suite of programs, not had time to look at others in there, but have concentrated on the WinWarbler. There are just so many parameters in the 'Set Up' panes, and a lot I just don't know what to enter, but I will read the documentation to see first.

I still have the same problem with WinWarbler as I am having with MULTIPSK - so, I am going back to trouble shoot. Firstly, I needed a connection line with a 3.5mm Jack on one end (computer soundcard), and a 6.5mm Jack (for the Transceiver Phones Socket). I made one up from the stereo plug off a pair of ear buds (can't get inside to solder properly, so just joined wire to wire. So - Firstly, I have just ordered a 3.3mm to 3.5mm 2 Metre Audio patch, and a 3.5mm to 6.5mm 'converter Jack' - Can't find anything 'Mono', so using Stereo. I assume that is OK? - I will report back, when they have arrived from Ebay, and I have tried a 'proper' connection. Even when I pull out the plug from the transceiver at the moment, there are almost the same signals on the 'waterfall' !!

Once again, Thanks !!

John - G3OBU

T

--- In TS-520_820_530_830@yahoogroups.com, "Chuck Goelz" <c.goelz@...> wrote:
>
> John,
>
> You could try DxLab Suite (free download at www.dxlabsuite.com). It consists of individual components for logging, callbook lookups, propagation forecasting, award tracking, rig control (not applicable to hybrids!), eQSL & LotW submissions, and the part you may want, WinWarbler for RTTY and PSK (31, 63, and 125). None of the components require any other component... Support directly from the author via the Dxlab Yahoo group is superb!
>
> I used this suite with my 599 Twins using just simple connections to the soundcard (some padding of signal levels (both ways) was required).
>
> I haven't used multipsk, but have worked many who do... Apparently it does work! But maybe WinWarbler will be more to your liking. If you have any questions about, feel free to contact me off-list, or reply here...
>
> Cheers & GL,
> Chuck WA3CEJ
>
>

> ----- Original Message -----
> From: Music Maker
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, December 14, 2009 6:38 PM
> Subject: [TS-520_820_530_830] RTTY & CW Reception
>
>
>
>
>
> Hi All,
>
> I wonder, just wonder - Is anyone using a program called 'MULTIPSK' ?
>
> For the moment, I am just trying to get it to work on receive - with the connection from my Loudspeaker Socket into the Mic Socket on my Computer. I get nothing on CW, or on PSK, but do get a string of 'Garble' on RTTY. (I have also tried the 'Lene in')
>
> Years ago, I used to use a 'Commodore 64' (Before PCs came out!), and had a great program that I could Tx and RX with (and do SSTV), and it all came on one 720K Floppy!
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> I get the 'waterfall, and spectrum graphs, and have tried moving the cursor on to every 'peak' - but Nada, nothing, zero, zilch!
>
> Is anyone else using any FREE software that is simpler to use that I can also use without a TNC or Modem ?
>
> Thanks in advance ....
>
> John G3OBU
>
>
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>
>
> [Non-text portions of this message have been removed]
>

23961. Re: [TS-520_820_530_830] Re: RTTY & CW Reception

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-15 16:05:32 UTC
From: Chris and Alex
Topic: 23950 Message: 23961

Hi John,

When you get on the air use this site
http://psk.gladstonefamily.net/pskmap.html Send a few CQ's. It's good to
see how you're getting a signal out even without any QSO's.

73 Chris Sv0XBQ/9

2009/12/15 Music Maker <jhaddleton@...>

>
>
> Hi Chris, and thank you.
>
> Your Post has enlightened me a lot, and makes good sense. I will go into
> the Soundcard 'Properties' and disable all currently unused inputs. Please
> see my other response, as to progress so far, and I think that with the
> actions I describe there, plus your suggestion, I may be getting towards
> solutions.
>
> Once again, Thanks very much,
>
> John G3OBU
>
> --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> Chris and Alex <alexandchrisp@...> wrote:
> >
> > Hi John,
> >
> > I find that Digipan works well for bpsk31. Most of the Gremlins seem to
> live
> > in the PC sound card. Disable all inputs and outputs that your not using
> and
> > make sure that any sound card effects are off. If you're running a laptop
> > make sure the on board mic is turned off. The sample rate needs to be set
> > at 11025
> >
> > 73 Chris
> >
> > 2009/12/15 Music Maker <jhaddleton@...>
>
> >
> > >
> > > >
> > > >
> > > >
> > > >

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> > > Thanks in advance ....
> > >
> > > John G3OBU
> > >
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> > [Non-text portions of this message have been removed]
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>

[Non-text portions of this message have been removed]

23962. Re: [TS-520_820_530_830] Re: RTTY & CW Reception

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-15 16:00:58 UTC
From: Jim Stanicek
Topic: 23950 Message: 23962

MultiPSK is not a bad program, but it has a VERY DISTRACTING GUI !

I was wondering if you have such a thing as a "squelch" level in the software you are using? If audio is below that level, nothing will show on the screen, no matter what is cascading down the waterfall.

Digipan is probably the easiest software to use, and if you cannot get things to print with that, you have something seriously wrong in your setup !

As suggested, turn off all echo, surround sound, equalizers, etc. and see if that makes a difference.

Good luck! Jim AG3Y

----- Original Message -----
From: Music Maker
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, December 14, 2009 11:59 PM
Subject: [TS-520_820_530_830] Re: RTTY & CW Reception

Hi Chris, and thank you.

Your Post has enlightened me a lot, and makes good sense. I will go into the Soundcard 'Properties' and disable all currently unused inputs. Please see my other response, as to progress so far, and I think that with the actions I describe there, plus your suggestion, I may be getting towards solutions.

Once again, Thanks very much,

John G3OBU

--- In TS-520_820_530_830@yahoogroups.com, Chris and Alex <alexandchrisp@...> wrote:
>
> Hi John,
>
> I find that Digipan works well for bpsk31. Most of the Gremlins seem to live
> in the PC sound card. Disable all inputs and outputs that your not using and
> make sure that any sound card effects are off. If you're running a laptop
> make sure the on board mic is turned off. The sample rate needs to be set
> at 11025
>
> 73 Chris
>
> 2009/12/15 Music Maker <jhaddleton@...>
>
> >
> >

> >
> >
> > Hi All,
> >
> > I wonder, just wonder - Is anyone using a program called 'MULTIPSK' ?
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> > For the moment, I am just trying to get it to work on receive - with the
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> > Years ago, I used to use a 'Commodore 64' (Before PCs came out!), and had a
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> > Thanks in advance ....
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> > John G3OBU
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>
> [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

23963. TS-530S QRP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-15 16:11:40 UTC
From: kj4aur
Topic: 23963 Message: 23963

Hello, rumor is that Santa is going to leave an amplifier under the tree this year. I've got a wonderful TS-530S with an SM-220/BS-8 working wonderfully. I'd like to drive the amplifier with 10W to 15W.

Should I apply 9V negative voltage, adjusted by a 220K Ohm potentiometer, against the REMOTE connection on the back? PIN 6 (ALC) of the connector gets negative voltage, chassis gets positive voltage?

Looking at the TS-530 manual the difference between the TS-520 QRP modification and the TS-530 is that while PIN 6 is still ALC on the TS-530 PIN 4 is not the chassis ground.

Thank you and 73.
-Nathan

23964. Re: TS-520S Operating PSK31

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-15 15:54:19 UTC
From: Al
Topic: 23919 Message: 23964

--- In TS-520_820_530_830@yahoogroups.com, "Music Maker" <jhaddleton@...> wrote:
> Hi Folks,
>
> Here is a way to measure drift - no equipment or technical knowledge needed.
>
> Promise me you won't laugh !! !!
>
> To check - (say) on 20 Metre Band. Switch on '25KHz' on the VFO knob. Tune the rig to where the Crystal Osc gives you a Signal (lets say at 14.000) Ask the wife or kids to keep hitting 'middle 'C' on your Piano, Organ or Keyboard, and tune the tuning dial until the same note is coming from your rig. Turn down the AF Gain - take the dog for a walk - have a cup of coffee, and 30 mins later turn up the AF gain and see what note your rig now matches with. Look up the notes frequency on Google, subtract the lowest from the highest, and VOILA! Thats how far your rig drifted in 30 mins. Easy Peasy !! (Middle 'C'is 440 Hz by the way !!).
>
> I don't know if it works or not, but I just read this thread and thought of it !! Thats the way your brain works at my age (I used to have 'Premature Senile Dementure' - I am much better now, as I just have 'Senile Dementure') !!
>
> Seasons Greetings to All, vy 73's de G3OBU,
>
> John
>
Err...Nice idea John, but as best I know, Middle C (AKA C4... the Fourth C note on an standard 88 note keyboard)is around 261.626 Hz and 440Hz (a standard tuning fork) is the A above Middle C. Just to show I was paying attention :-) There's a nifty little table at..
http://www.phy.mtu.edu/~suits/notefreqs.html

Nice idea, but it places more trust than I'd have in the stability of the marker generator. Xtals drift too, expecially from a cold start.
An urban radio myth maybe?

Have a nice holiday all.

73 Al.
GM1SXX

23965. Re: [TS-520_820_530_830] Re: TS-520S Operating PSK31

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-15 17:05:24 UTC
From: Dave & Loraine
Topic: 23919 Message: 23965

Good idea for those rigs without digital display!
(440Hz is A, not C)
A decent audio oscillator software would also do.
I'm trying my TS820S from cold tonight.
73 Dave f4eyk

23966. Re: [TS-520_820_530_830] audio transmit gain on ts 820 low

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-15 17:19:57 UTC
From: Dave & Loraine
Topic: 23946 Message: 23966

Hi,
My MC50/TS820S had low audio 'till I built a simple pre-amp into the mic base. N2222 and draws micro amps. 9V battery lasts more than a year permanently on.

Also, if you tape-over the first half of the mic slots, it boosts the top and bottom slighty which sounds better.
73 Dave f4eyk

23967. RE: [TS-520_820_530_830] audio transmit gain on ts 820 low

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-15 17:45:22 UTC
From: Greg Anders
Topic: 23946 Message: 23967

My MC50 didn't drive my TS-900S very well at all. I switched to an unamplified MC60 and its fine. I think the MC50's were a little low on output.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Dave & Loraine
Sent: Tuesday, December 15, 2009 9:20 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] audio transmit gain on ts 820 low

Hi,
My MC50/TS820S had low audio 'till I built a simple pre-amp into the mic base. N2222 and draws micro amps. 9V battery lasts more than a year permanently on.

Also, if you tape-over the first half of the mic slots, it boosts the top and bottom slighty which sounds better.
73 Dave f4eyk

[Non-text portions of this message have been removed]

23968. Re: TS-20S operationg PSK31

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-15 16:40:11 UTC
From: rkersey tds.net
Topic: 23968 Message: 23968

Hi All,

I'm enjoying all the posts and learning something from the ones I can understand. I don't know much about radio, but I do know something about music. I wouldn't use an acoustic piano as a frequency standard, even if it was tuned yesterday. Too much wood and metal expanding and contracting. An electronic might be correct. Middle C is about 256Hz, but the A above that should be exactly 440Hz. Easiest way I can think of to do what the OP suggested is to use a little tuner like my Korg CA-30. To find a frequency, just use the calibrate button to run the A, which is defaulted to 440, up and down until it zero beats with whatever tone is coming out of the radio. Then read the value for A off the tuner. If you have an electronic A you are sure of, you could count the beats and add or subtract them to/from 440. I guess you don't have to know whether you are flat or sharp to get a difference figure and a percentage from that.

73
Roy
KI4HAG

[Non-text portions of this message have been removed]

23969. Re: [TS-520_820_530_830] Screeching Reception

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-15 22:10:36 UTC
From: Dave ve3wej
Topic: 23954 Message: 23969

check to see if anything is new in the area, inside and outside the shack
area. you may have a new noise in your neighbourhood..... where on the
band, could it be near the digital sstv 14233 area, or psk 14070 area????

just thinking it might be an emmision new to you

----- Original Message -----
From: "kshitij mathur" <telestar1960@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, December 15, 2009 2:33 AM
Subject: [TS-520_820_530_830] Screeching Reception

> Dear all Seniors
>
> Since last few days I am observing that whenever I try to tune my TS520SE
> to a signal on 20 Mt band- I receive screeching signal just few kc up and
> down of the exact frequency- once I hit the exact frequency then I hear an
> intelligent signal- but if I shift a bit here and there the signal becomes
> screeching- what could be he problem?? I am worried specially because This
> is the only rig I have which keeps me connected me with rest of the world.
>
> This phenomenon is less on 40 mtr band but prominent on 20 mtr. with most
> of the incommming signals.
>
> Does that mean my anteena is not correct (I checked with 20 Mtr short
> Beam as well as with Dipole) OR people have started using different
> technique for transmitting ?
>
> Please Help.
>
> 73
>
> KSHITIJ
> VU2CDW
>
>
> The INTERNET now has a personality. YOURS! See your Yahoo! Homepage.
> http://in.yahoo.com/
>
> [Non-text portions of this message have been removed]
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>
> Yahoo! Groups Links

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23970. Re: [TS-520_820_530_830] audio transmit gain on ts 820 low

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-15 22:17:42 UTC
From: Dave ve3wej
Topic: 23946 Message: 23970

check your impedance switching (cable) on the mc50 . you may have the cable
set high instead of low, or low instead of high

----- Original Message -----
From: "Greg Anders" <greg.anders@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, December 15, 2009 12:45 PM
Subject: RE: [TS-520_820_530_830] audio transmit gain on ts 820 low

> My MC50 didn't drive my TS-900S very well at all. I switched to an
> unamplified MC60 and its fine. I think the MC50's were a little low on
> output.
>
> Greg
> KG6YV
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Dave & Loraine
> Sent: Tuesday, December 15, 2009 9:20 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] audio transmit gain on ts 820 low
>
>
>
> Hi,
> My MC50/TS820S had low audio 'till I built a simple pre-amp into the mic
> base. N2222 and draws micro amps. 9V battery lasts more than a year
> permanently on.
>
> Also, if you tape-over the first half of the mic slots, it boosts the top
> and bottom slighty which sounds better.
> 73 Dave f4eyk
>
>
>
> [Non-text portions of this message have been removed]
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>
> Yahoo! Groups Links
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23971. Re: [TS-520_820_530_830] RTTY & CW Reception

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-15 22:13:51 UTC
From: Dave ve3wej
Topic: 23950 Message: 23971

if you go from the "loudspeaker" connection to the computer, check you af control. it may be too high, feed audio into the line in jack instead of mic jack. or make sure "mic boost" is unchecked.

it should NOT matter what software you are using, even mmtty or mmsstv or hamscope as simple as they are should give the same result....

rrtty could be on the wrong sideband. retune to the other sideband OR click on reverse on multipsk window

----- Original Message -----
From: "Music Maker" <jhaddleton@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, December 14, 2009 6:38 PM
Subject: [TS-520_820_530_830] RTTY & CW Reception

>
>
> Hi All,
>
> I wonder, just wonder - Is anyone using a program called 'MULTIPSK' ?
>
> For the moment, I am just trying to get it to work on receive - with the
> connection from my Loudspeaker Socket into the Mic Socket on my Computer.
> I get nothing on CW, or on PSK, but do get a string of 'Garble' on RTTY.
> (I have also tried the 'Lene in')
>
> Years ago, I used to use a 'Commodore 64' (Before PCs came out!), and had
> a great program that I could Tx and RX with (and do SSTV), and it all came
> on one 720K Floppy!
>
> I get the 'waterfall, and spectrum graphs, and have tried moving the
> cursor on to every 'peak' - but Nada, nothing, zero, zilch!
>
> Is anyone else using any FREE software that is simpler to use that I can
> also use without a TNC or Modem ?
>
> Thanks in advance ....
>
> John G3OBU
>
>
>
>
>
>

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> ------------------------------------
>
> Yahoo! Groups Links
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>

23972. Re: audio transmit gain on ts 820 low

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-15 22:57:44 UTC
From: w5rkl
Topic: 23946 Message: 23972

The Kenwood MC-50 is a dual impedance (600 or 50K ohms) microphone. It is quite possible connector "A" was inserted incorrectly at the base of the microphone which led to an impedance mismatch between the MC-50 and the TS-820. If this happens, the audio will be low resulting in low RF output.

The microphone's impedance is determined by the position of connector "A" on the rear of the microphone (RED "H" or BLACK "L").

For further details on the MC-50 dual impedance microphone, download the simple one page manual at the following link:

http://www.kg6haf.com/downloads/MC50_Manual.pdf

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Dave & Loraine" <dave.crooks@...> wrote:
>
> Hi,
> My MC50/TS820S had low audio 'till I built a simple pre-amp into the mic
> base. N2222 and draws micro amps. 9V battery lasts more than a year
> permanently on.
>
> Also, if you tape-over the first half of the mic slots, it boosts the top
> and bottom slighty which sounds better.
> 73 Dave f4eyk
>

23973. Re: [TS-520_820_530_830] Re: audio transmit gain on ts 820 low

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-15 23:39:26 UTC
From: n6wk@n6wk.com
Topic: 23946 Message: 23973

Speaking of MC-50 Mic's
I have a good used one here for sale.
How about $50.00 plus shipping from 92707?
Email me direct. Not on the Group please.

73,
Gordon
N6WK

w5rkl wrote:
>
>
>
>
> The Kenwood MC-50 is a dual impedance (600 or 50K ohms) microphone. It
> is quite possible connector "A" was inserted incorrectly at the base
> of the microphone which led to an impedance mismatch between the MC-50
> and the TS-820. If this happens, the audio will be low resulting in
> low RF output.
>
> The microphone's impedance is determined by the position of connector
> "A" on the rear of the microphone (RED "H" or BLACK "L").
>
> For further details on the MC-50 dual impedance microphone, download
> the simple one page manual at the following link:
>
> http://www.kg6haf.com/downloads/MC50_Manual.pdf
> <http://www.kg6haf.com/downloads/MC50_Manual.pdf>
>
> 73s
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Dave & Loraine"
> <dave.crooks@...> wrote:
> >
> > Hi,
> > My MC50/TS820S had low audio 'till I built a simple pre-amp into the
> mic
> > base. N2222 and draws micro amps. 9V battery lasts more than a year
> > permanently on.
> >
> > Also, if you tape-over the first half of the mic slots, it boosts
> the top
> > and bottom slighty which sounds better.

> > 73 Dave f4eyk
> >
>
>

23974. for sale ts520s/ts520

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-15 23:40:06 UTC
From: mark helinski
Topic: 23974 Message: 23974

ts520 10-80 meters has cord power,needstlc
ts520s 10-160 worksgreat ,
askin 550.00 for both plus shiping
my email is marksbuffalobills@...

[Non-text portions of this message have been removed]

23975. Help Me - Possible SM-220 (BS-5 Pan Adapter) Problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-16 00:24:42 UTC
From: unnorml
Topic: 23975 Message: 23975

I have recently acquired a SM-220 Station Monitor with the BS-5 Pan Adapter connected to my TS-520S. I've done both of the mods for IF #1 & #2.
I'm confused as to the operation of the Pan Adapter.
When using the Marker as per the manual, I have a spike displayed that is always there and I have to adjust VR202 (Scan Width Adjustment) or tune the transceiver in order to move it.
The Marker button on the SM-220 doesn't seem to do anything.
I had assumed that tuning the transceiver would move the noise as appeared on the display but the spike moves instead.
I feel that I have to adjust VR202 every time I tune to a different frequency in order to see up and down the band from where I initially set the scope.
Am I witnessing normal operation or is there a problem?
Can someone please help to me?

73,

Mike - KI4FDH

23976. Re: [TS-520_820_530_830] Help Me - Possible SM-220 (BS-5 Pan Adapter) Problem

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-16 01:38:43 UTC
From: Dave ve3wej
Topic: 23975 Message: 23976

marker button works the out jack just above it, and the tone selector. that connector must be wired to your mike inputs with ptt on to show results..

----- Original Message -----
From: "unnorml" <unnorml@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, December 15, 2009 7:24 PM
Subject: [TS-520_820_530_830] Help Me - Possible SM-220 (BS-5 Pan Adapter) Problem

>I have recently acquired a SM-220 Station Monitor with the BS-5 Pan Adapter
>connected to my TS-520S. I've done both of the mods for IF #1 & #2.
> I'm confused as to the operation of the Pan Adapter.
> When using the Marker as per the manual, I have a spike displayed that is
> always there and I have to adjust VR202 (Scan Width Adjustment) or tune
> the transceiver in order to move it. The Marker button on the SM-220
> doesn't seem to do anything.
> I had assumed that tuning the transceiver would move the noise as appeared
> on the display but the spike moves instead.
> I feel that I have to adjust VR202 every time I tune to a different
> frequency in order to see up and down the band from where I initially set
> the scope.
> Am I witnessing normal operation or is there a problem?
> Can someone please help to me?
>
> 73,
>
> Mike - KI4FDH
>
>
>
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>
> Yahoo! Groups Links
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23977. Re: audio transmit gain on ts 820 low

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-16 02:29:18 UTC
From: kevin
Topic: 23946 Message: 23977

I am using an MC-50 on my 520 (primary) 530 and 830. Which impedance should I use on which rig or do they all the same?
Kevin
KD0ILM

23978. Re: [TS-520_820_530_830] Screeching Reception

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-16 05:19:20 UTC
From: kshitij mathur
Topic: 23954 Message: 23978

Thank You Very much for attention you all paid to my problem-

The screeching is on every band (last night I checked all the bands)- this is mostly between

7.180 to 7.230 (if I am on 7.000Mhz Band)
14.180 to 14.230 Mhz (If I am on 14 mtr band)
21.180 to 21.230 Mhz (If I am on 21.000 Mhz Band)
..... similarly on other bands too

beyond xx.230 or below xx.180 the reception is normal
(xx denotes the base frequency like xx is 14 for 20 mtr band and 07 fo 40 Mtr band)

All this I checked with 25 Mhz Calibrator- so I concluded that I am having problem between xx.180 mark to xx.230 mark for each band- definitely it has nothing to do with antenna or transmission of of the people- it is within my radio.

This is my first radio- I know little about SSB transmission (which helped me in clearing my Exam- nothing much in details)

Does that mean my gang capacitor is having dust accumulated in this region which opens/ operates duringxx.180 to xx.230 ???

I hope I am now cleraly describing my problem.

Please help

73

VU2CDW

--- On Wed, 16/12/09, Dave ve3wej <ve3wej@...> wrote:

From: Dave ve3wej <ve3wej@gmail.com>
Subject: Re: [TS-520_820_530_830] Screeching Reception
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, 16 December, 2009, 3:40 AM

check to see if anything is new in the area, inside and outside the shack
area. you may have a new noise in your neighbourhood. ..... where on the
band, could it be near the digital sstv 14233 area, or psk 14070 area????

just thinking it might be an emmision new to you

----- Original Message -----
From: "kshitij mathur" <telestar1960@ yahoo.com>
To: <TS-520_820_530_ 830@yahoogroups. com>
Sent: Tuesday, December 15, 2009 2:33 AM
Subject: [TS-520_820_ 530_830] Screeching Reception

> Dear all Seniors
>
> Since last few days I am observing that whenever I try to tune my TS520SE
> to a signal on 20 Mt band- I receive screeching signal just few kc up and
> down of the exact frequency- once I hit the exact frequency then I hear an
> intelligent signal- but if I shift a bit here and there the signal becomes
> screeching- what could be he problem?? I am worried specially because This
> is the only rig I have which keeps me connected me with rest of the world.
>
> This phenomenon is less on 40 mtr band but prominent on 20 mtr. with most
> of the incommming signals.
>
> Does that mean my anteena is not correct (I checked with 20 Mtr short
> Beam as well as with Dipole) OR people have started using different
> technique for transmitting ?
>
> Please Help.
>
> 73
>
> KSHITIJ
> VU2CDW
>
>
> The INTERNET now has a personality. YOURS! See your Yahoo! Homepage.
> http://in.yahoo. com/
>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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The INTERNET now has a personality. YOURS! See your Yahoo! Homepage. http://in.yahoo.com/

[Non-text portions of this message have been removed]

23979. Re: audio transmit gain on ts 820 low

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-16 10:32:08 UTC
From: w5rkl
Topic: 23946 Message: 23979

Kevin,

The 520 and 820 series have a 50K high impedance microphone inputs.
The 530 and 830 series have a 500 to 50K impedance microphone inputs.

Therefore, if you plan on using the MC-50 with all of the hybrids, I would recommend setting the MC-50 up for high impedance. That requires connector "A" to be installed on the rear of the microphone so the RED "H" lines up with the dot on the rear of the microphone.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "kevin" <kmx888@...> wrote:
>
>
> I am using an MC-50 on my 520 (primary) 530 and 830. Which impedance should I use on which rig or do they all the same?
> Kevin
> KD0ILM
>

23980. Re: Screeching Reception

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-16 10:43:07 UTC
From: w5rkl
Topic: 23954 Message: 23980

If removing the antenna coax cable from the rear of the radio causes the screeching noise to disappear then the problem is NOT in your radio.

When performing the following, do NOT key the radio into transmit!

While listening to the screeching noise, unscrew the coax cable from the radio. Pull the shell away from the connector, then pull slightly so the only coax cable connection is the center pin on the PL-259 to the center pin on the rear antenna connector. Does the screech noise change? If not then there's a problem with your coax cable, coax cable connection to the antenna, or both.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, kshitij mathur <telestar1960@...> wrote:
>
> Thank You Very much for attention you all paid to my problem-
>
> The screeching is on every band (last night I checked all the bands)- this is mostly between
>
> 7.180 to 7.230 (if I am on 7.000Mhz Band)
> 14.180 to 14.230 Mhz (If I am on 14 mtr band)
> 21.180 to 21.230 Mhz (If I am on 21.000 Mhz Band)
> ..... similarly on other bands too
>
> beyond xx.230 or below xx.180 the reception is normal
> (xx denotes the base frequency like xx is 14 for 20 mtr band and 07 fo 40 Mtr band)
>
> All this I checked with 25 Mhz Calibrator- so I concluded that I am having problem between xx.180 mark to xx.230 mark for each band- definitely it has nothing to do with antenna or transmission of of the people- it is within my radio.
>
> This is my first radio- I know little about SSB transmission (which helped me in clearing my Exam- nothing much in details)
>
> Does that mean my gang capacitor is having dust accumulated in this region which opens/ operates duringxx.180 to xx.230 ???
>
> I hope I am now cleraly describing my problem.
>
> Please help
>
> 73
>
> VU2CDW

>
> --- On Wed, 16/12/09, Dave ve3wej <ve3wej@...> wrote:
>
>
> From: Dave ve3wej <ve3wej@...>
> Subject: Re: [TS-520_820_530_830] Screeching Reception
> To: TS-520_820_530_830@yahoogroups.com
> Date: Wednesday, 16 December, 2009, 3:40 AM
>
>
> Â
>
>
>
> check to see if anything is new in the area, inside and outside the shack
> area. you may have a new noise in your neighbourhood. ..... where on the
> band, could it be near the digital sstv 14233 area, or psk 14070 area????
>
> just thinking it might be an emmision new to you
>
> ----- Original Message -----
> From: "kshitij mathur" <telestar1960@ yahoo.com>
> To: <TS-520_820_530_ 830@yahoogroups. com>
> Sent: Tuesday, December 15, 2009 2:33 AM
> Subject: [TS-520_820_ 530_830] Screeching Reception
>
> > Dear all Seniors
> >
> > Since last few days I am observing that whenever I try to tune my TS520SE
> > to a signal on 20 Mt band- I receive screeching signal just few kc up and
> > down of the exact frequency- once I hit the exact frequency then I hear an
> > intelligent signal- but if I shift a bit here and there the signal becomes
> > screeching- what could be he problem?? I am worried specially because This
> > is the only rig I have which keeps me connected me with rest of the world.
> >
> > This phenomenon is less on 40 mtr band but prominent on 20 mtr. with most
> > of the incommming signals.
> >
> > Does that mean my anteena is not correct (I checked with 20 Mtr short
> > Beam as well as with Dipole) OR people have started using different
> > technique for transmitting ?
> >
> > Please Help.
> >
> > 73
> >
> > KSHITIJ
> > VU2CDW
> >
> >

> > The INTERNET now has a personality. YOURS! See your Yahoo! Homepage.
> > http://in.yahoo. com/
> >
> > [Non-text portions of this message have been removed]
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>
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>
> [Non-text portions of this message have been removed]
>

23981. Heads-up - Kenwood R-820 Receiver

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-16 14:51:16 UTC
From: sceneryguru
Topic: 23981 Message: 23981

Good Morning Group:

I came across a very rare animal yesterday, as I was sifting through the listings on Ebay. There is a Kenwood R-820 Receiver up for sale. If I had the funds I would certainly snap it up... unfortunately, considering the time of year, I just do not.

I mention the listing here because it's pretty close to the top of my wish list. I'm sure that I'm not alone. Particularly if you are the proud owner of a TS820/S transceiver. If you're not already aware... you can set-up the R-820 to slave with your TS-820. Man that would sure be sweet. Well enough said

http://cgi.ebay.com/Kenwood-R-820-Communications-Receiver-CLEAN_W0QQitemZ230412167914QQcmdZViewItemQQptZLH_DefaultDomain_0?hash=item35a5a2aaea&BackToListReferer=http%3A%2F%2Fmy.ebay.com%2Fws%2FeBayISAPI.dll%3FMyEbayBeta

73 & Happy Holidays

Tom G, Sr.
K3SSB

23982. Re: TS-530S QRP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-16 14:56:04 UTC
From: ve3wmb
Topic: 23963 Message: 23982

I run my TS820S QRP simply by following the normal Tuning procedure and then dropping the CAR level until I am at the desired 5W or whatever power level I choose to run.

Michael VE3WMB / VA2NB

--- In TS-520_820_530_830@yahoogroups.com, "kj4aur" <kj4aur@...> wrote:
>
> Hello, rumor is that Santa is going to leave an amplifier under the tree this year. I've got a wonderful TS-530S with an SM-220/BS-8 working wonderfully. I'd like to drive the amplifier with 10W to 15W.
>
> Should I apply 9V negative voltage, adjusted by a 220K Ohm potentiometer, against the REMOTE connection on the back? PIN 6 (ALC) of the connector gets negative voltage, chassis gets positive voltage?
>
> Looking at the TS-530 manual the difference between the TS-520 QRP modification and the TS-530 is that while PIN 6 is still ALC on the TS-530 PIN 4 is not the chassis ground.
>
> Thank you and 73.
> -Nathan
>

23983. Follow on from cooking the finals on an 830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-16 16:29:41 UTC
From: sv0xbq
Topic: 23983 Message: 23983

Hi Folks,

A while ago I accidentally knocked the send switch and didn't notice until I could smell the smoke. I'm up and running again but I've got one or two questions.

I've rewound L2 with 200T 36 SWG. Replaced the cathode resistors with 5 x 22 ohm 1/2 watt giving a measured resistance of 5.2 ohms. Replaced R14 on the rectifier board. I've not neutralised the finals as max power corresponds with the plate dip.

I was always down a bit on power but I've discovered I've got 6146A's fitted. I was getting around 95 watts at 235 mA Ip. Now I'm getting 95 Watts at an Ip of 195 mA Ip. Any thoughts on this please?

L1 in the finals cage, 6.8 micro henry, looks cooked but it works. I'd like to replace it but I'm going to have to send for it. Does anyone know the current it handles? I don't really fancy putting a meter in there to find out.

Finally I've got some spare S2001A valves. Are they the same as any of the 6146's?

73 Chris

23984. Re: [TS-520_820_530_830] Heads-up - Kenwood R-820 Receiver

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-16 17:07:44 UTC
From: John Cox
Topic: 23981 Message: 23984

Thanks for telling the world about the receiver. I was hoping to bid on it and win it without paying twice what it is worth, but I can forget that now.

--- On Wed, 12/16/09, sceneryguru <k3ssb@...> wrote:

From: sceneryguru <k3ssb@...>
Subject: [TS-520_820_530_830] Heads-up - Kenwood R-820 Receiver
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, December 16, 2009, 2:51 PM

Good Morning Group:

I came across a very rare animal yesterday, as I
was sifting through the listings on Ebay. There is
a Kenwood R-820 Receiver up for sale. If I had the
funds I would certainly snap it up...
unfortunately, considering the time of year, I
just do not.

I mention the listing here because it's pretty
close to the top of my wish list. I'm sure that
I'm not alone. Particularly if you are the proud
owner of a TS820/S transceiver. If you're not
already aware... you can set-up the R-820 to slave
with your TS-820. Man that would sure be sweet.
Well enough said…

http://cgi.ebay. com/Kenwood- R-820-Communicat ions-R
eceiver-CLEAN_ W0QQitemZ2304121 67914QQcmdZViewI temQ
QptZLH_DefaultDomai n_0?hash= item35a5a2aaea& BackToL
istReferer=http% 3A%2F%2Fmy. ebay.com% 2Fws%2FeBayISA
PI.dll%3FMyEbayBeta

73 & Happy Holidays

Tom G, Sr.
K3SSB

[Non-text portions of this message have been removed]

23985. TS-820S Diode Replacement

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-16 17:22:27 UTC
From: brad
Topic: 23985 Message: 23985

Hello All,

My first post to this great group. I have, I think, resolved a problem with my TS-820S. The radio quit receiving, transmitting and the digital display went blank on me last week when I plugged in an external VFO-820 that I had purchased on Ebay. Long story short is that I found 2 broken wires in the external VFO cable.

Just now I found what I think is now causing the problem with the radio. I found 2 cracked open diodes, D8 and D9, on the (X43-1090-02) rectifier unit. This affects the 14 volt line in the radio. I need to order replacements. The service manual lists D8 and D9 as a VOC3 diode. I am having trouble finding a replacement. Can anyone recommenend where I can purchase the VO3C or an equivalent?

Any help would be greatly appreciated,

Brad
KD5ZAT

23986. Re: TS-820S Diode Replacement

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-16 17:37:50 UTC
From: n6wk_skcc3
Topic: 23985 Message: 23986

Brad,
NTE-116 or equivalent is perfect for the VO3C diodes
1N4002 will also work and is very common.

73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "brad" <bjpenn@...> wrote:
>
> Hello All,
>
> My first post to this great group. I have, I think, resolved a problem with my TS-820S. The radio quit receiving, transmitting and the digital display went blank on me last week when I plugged in an external VFO-820 that I had purchased on Ebay. Long story short is that I found 2 broken wires in the external VFO cable.
>
> Just now I found what I think is now causing the problem with the radio. I found 2 cracked open diodes, D8 and D9, on the (X43-1090-02) rectifier unit. This affects the 14 volt line in the radio. I need to order replacements. The service manual lists D8 and D9 as a VOC3 diode. I am having trouble finding a replacement. Can anyone recommenend where I can purchase the VO3C or an equivalent?
>
> Any help would be greatly appreciated,
>
> Brad
> KD5ZAT
>

23987. Re: TS-820S Diode Replacement

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-16 17:53:05 UTC
From: brad
Topic: 23985 Message: 23987

Thank you Gordon!!! I will get those little rascals ordered right away.

Brad
KD5ZAT

--- In TS-520_820_530_830@yahoogroups.com, "n6wk_skcc3" <n6wk@...> wrote:
>
>
> Brad,
> NTE-116 or equivalent is perfect for the VO3C diodes
> 1N4002 will also work and is very common.
>
> 73,
> Gordon
> N6WK
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "brad" <bjpenn@> wrote:
> >
> > Hello All,
> >
> > My first post to this great group. I have, I think, resolved a problem with my TS-820S. The radio quit receiving, transmitting and the digital display went blank on me last week when I plugged in an external VFO-820 that I had purchased on Ebay. Long story short is that I found 2 broken wires in the external VFO cable.
> >
> > Just now I found what I think is now causing the problem with the radio. I found 2 cracked open diodes, D8 and D9, on the (X43-1090-02) rectifier unit. This affects the 14 volt line in the radio. I need to order replacements. The service manual lists D8 and D9 as a VOC3 diode. I am having trouble finding a replacement. Can anyone recommenend where I can purchase the VO3C or an equivalent?
> >
> > Any help would be greatly appreciated,
> >
> > Brad
> > KD5ZAT
> >
>

23988. Re: [TS-520_820_530_830] Re: TS-820S Diode Replacement

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-16 18:13:38 UTC
From: pmarkavage
Topic: 23985 Message: 23988

!N4002 ,03, 04, 05, 06 ,07 will all work. Parts Express has 1N4007 for
$.09 each. 10 or more $.07 each.

Pete, wa2cwa

On Wed, 16 Dec 2009 17:37:50 -0000 "n6wk_skcc3" <n6wk@...> writes:
>
> Brad,
> NTE-116 or equivalent is perfect for the VO3C diodes
> 1N4002 will also work and is very common.
>
> 73,
> Gordon
> N6WK
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "brad" <bjpenn@...>
> wrote:
> >
> > Hello All,
> >
> > My first post to this great group. I have, I think, resolved a
> problem with my TS-820S. The radio quit receiving, transmitting and
> the digital display went blank on me last week when I plugged in an
> external VFO-820 that I had purchased on Ebay. Long story short is
> that I found 2 broken wires in the external VFO cable.
> >
> > Just now I found what I think is now causing the problem with the
> radio. I found 2 cracked open diodes, D8 and D9, on the
> (X43-1090-02) rectifier unit. This affects the 14 volt line in the
> radio. I need to order replacements. The service manual lists D8 and
> D9 as a VOC3 diode. I am having trouble finding a replacement. Can
> anyone recommenend where I can purchase the VO3C or an equivalent?
> >
> > Any help would be greatly appreciated,
> >
> > Brad
> > KD5ZAT
> >
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> Yahoo! Groups Links
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23989. Re: [TS-520_820_530_830] Heads-up - Kenwood R-820 Receiver

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-16 18:21:21 UTC
From: Jerry Keller
Topic: 23981 Message: 23989

Actually, I don't think one can ever pay "more than something is worth" on e-bay.... an auction with a huge bidding audience like that pretty much defines an item's "worth"....I can't imagine a better way to determine "worth". And with such a large audience, I doubt Tom's comments would change the outcome much.

73, Jerry K3BZ

----- Original Message -----
From: "John Cox" <n4mcy@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, December 16, 2009 12:07 PM
Subject: Re: [TS-520_820_530_830] Heads-up - Kenwood R-820 Receiver

Thanks for telling the world about the receiver. I was hoping to bid on it and win it without paying twice what it is worth, but I can forget that now.

--- On Wed, 12/16/09, sceneryguru <k3ssb@...> wrote:

From: sceneryguru <k3ssb@...>
Subject: [TS-520_820_530_830] Heads-up - Kenwood R-820 Receiver
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, December 16, 2009, 2:51 PM

Good Morning Group:

I came across a very rare animal yesterday, as I
was sifting through the listings on Ebay. There is
a Kenwood R-820 Receiver up for sale. If I had the
funds I would certainly snap it up...
unfortunately, considering the time of year, I
just do not.

I mention the listing here because it's pretty
close to the top of my wish list. I'm sure that
I'm not alone. Particularly if you are the proud
owner of a TS820/S transceiver. If you're not
already aware... you can set-up the R-820 to slave
with your TS-820. Man that would sure be sweet.
Well enough said…

http://cgi.ebay. com/Kenwood- R-820-Communicat ions-R
eceiver-CLEAN_ W0QQitemZ2304121 67914QQcmdZViewI temQ
QptZLH_DefaultDomai n_0?hash= item35a5a2aaea& BackToL
istReferer=http% 3A%2F%2Fmy. ebay.com% 2Fws%2FeBayISA
PI.dll%3FMyEbayBeta

73 & Happy Holidays

Tom G, Sr.
K3SSB

[Non-text portions of this message have been removed]

Yahoo! Groups Links

23990. Re: TS-530S QRP

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-16 18:51:40 UTC
From: w5rkl
Topic: 23963 Message: 23990

Michael,

That will work fine for CW but not for sideband. The CAR control has no affect on the RF output in sideband.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "ve3wmb" <mbabineau@...> wrote:
>
> I run my TS820S QRP simply by following the normal Tuning procedure and then
> dropping the CAR level until I am at the desired 5W or whatever power level
> I choose to run.
>
> Michael VE3WMB / VA2NB
>
> --- In TS-520_820_530_830@yahoogroups.com, "kj4aur" <kj4aur@> wrote:
> >
> > Hello, rumor is that Santa is going to leave an amplifier under the tree this year. I've got a wonderful TS-530S with an SM-220/BS-8 working wonderfully. I'd like to drive the amplifier with 10W to 15W.
> >
> > Should I apply 9V negative voltage, adjusted by a 220K Ohm potentiometer, against the REMOTE connection on the back? PIN 6 (ALC) of the connector gets negative voltage, chassis gets positive voltage?
> >
> > Looking at the TS-530 manual the difference between the TS-520 QRP modification and the TS-530 is that while PIN 6 is still ALC on the TS-530 PIN 4 is not the chassis ground.
> >
> > Thank you and 73.
> > -Nathan
> >
>

23991. Re: [TS-520_820_530_830] TS-820S Diode Replacement

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-16 19:41:23 UTC
From: Dennis Windle
Topic: 23985 Message: 23991

My schematic shows those diodes (D8,9,10 & 11) as V06B's which cross to a NTE116 and the 1N4001 thru 1N4005 diodes also cross to a NTE116 so you have lots of options to look in your parts bins for to replace them.

D.Windle
----- Original Message -----
From: brad
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, December 16, 2009 12:22 PM
Subject: [TS-520_820_530_830] TS-820S Diode Replacement

Hello All,

My first post to this great group. I have, I think, resolved a problem with my TS-820S. The radio quit receiving, transmitting and the digital display went blank on me last week when I plugged in an external VFO-820 that I had purchased on Ebay. Long story short is that I found 2 broken wires in the external VFO cable.

Just now I found what I think is now causing the problem with the radio. I found 2 cracked open diodes, D8 and D9, on the (X43-1090-02) rectifier unit. This affects the 14 volt line in the radio. I need to order replacements. The service manual lists D8 and D9 as a VOC3 diode. I am having trouble finding a replacement. Can anyone recommenend where I can purchase the VO3C or an equivalent?

Any help would be greatly appreciated,

Brad
KD5ZAT

[Non-text portions of this message have been removed]

23992. Re: RTTY & CW Reception

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-16 19:32:58 UTC
From: Music Maker
Topic: 23950 Message: 23992

...Once again, may I thank everyone for their input to my problems - which are now resolved !!
This morning, a 'proper' shielded Patch lead to go between the 520 and my computer was delivered., and while waiting, I made up a copper earthing bar for tjhe back of my operating desk from an old copper hot water tank! - I earthed computer, ATU and Transceiver on to it, and then plugged in the new cable.
Success !!! - Everything working as it should! All I need to do, is get out in the cold weather, and make up a decent antenna . At present, its just some copper coil wire attached to the top of a 7 Mtr fishing pole!
Program. .... I installed every Digital Program I could find, and compared them, side by side. The most sensitive, I found to be the MULTIPSK - Others were much easier to use, as setting up and using MULTIPSK for the first time - especially when you know nothing much about 'digimode' communication is not for the feinthearted !!
I have done a small article, with some pics of the 'Old Way' in the 'Old Days' 50 years ago, of RTTY, when we used Creed 7B Teleprinters, as well as some screenshots of their successor - my Computer Screen - running MULTIPSK this afternoon.
Have a look at the bottom of the page, at .....
http://www.john4music.tv/27.html <http://www.john4music.tv/27.html> <http://www.john4music.tv/27.html> Once again - thanks to all who offered help and advice.
John G3OBU

.....\
.....\
.....
--- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@...> wrote:
>
> if you go from the "loudspeaker" connection to the computer, check you af
> control. it may be too high, feed audio into the line in jack instead of mic
> jack. or make sure "mic boost" is unchecked.
>
> it should NOT matter what software you are using, even mmtty or mmsstv or
> hamscope as simple as they are should give the same result....
>
> rrtty could be on the wrong sideband. retune to the other sideband OR click
> on reverse on multipsk window

>
>
> ----- Original Message -----
> From: "Music Maker" jhaddleton@...
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, December 14, 2009 6:38 PM
> Subject: [TS-520_820_530_830] RTTY & CW Reception
>
>
> >
> >
> > Hi All,
> >
> > I wonder, just wonder - Is anyone using a program called 'MULTIPSK'
?
> >
> > For the moment, I am just trying to get it to work on receive - with
the
> > connection from my Loudspeaker Socket into the Mic Socket on my
Computer.
> > I get nothing on CW, or on PSK, but do get a string of 'Garble' on
RTTY.
> > (I have also tried the 'Lene in')
> >
> > Years ago, I used to use a 'Commodore 64' (Before PCs came out!),
and had
> > a great program that I could Tx and RX with (and do SSTV), and it
all came
> > on one 720K Floppy!
> >
> > I get the 'waterfall, and spectrum graphs, and have tried moving the
> > cursor on to every 'peak' - but Nada, nothing, zero, zilch!
> >
> > Is anyone else using any FREE software that is simpler to use that I
can
> > also use without a TNC or Modem ?
> >
> > Thanks in advance ....
> >
> > John G3OBU
> >
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> > Yahoo! Groups Links

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[Non-text portions of this message have been removed]

23993. RE: [TS-520_820_530_830] Re: TS-820S Diode Replacement

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-16 19:54:26 UTC
From: Andrea Liverani
Topic: 23985 Message: 23993

Oh just what happened to my 820... the previous owner made the same thing .
In my case it was also shorted the diode in the external vfo (the only one you can see on the board with relay. So before replacing the rectifier diodes check also that diode.
I put an internal fuse to protect the 14v line i suggest you to do the same.

To: TS-520_820_530_830@yahoogroups.com
From: pmarkavage@...
Date: Wed, 16 Dec 2009 13:13:38 -0500
Subject: Re: [TS-520_820_530_830] Re: TS-820S Diode Replacement

!N4002 ,03, 04, 05, 06 ,07 will all work. Parts Express has 1N4007 for

$.09 each. 10 or more $.07 each.

Pete, wa2cwa

On Wed, 16 Dec 2009 17:37:50 -0000 "n6wk_skcc3" <n6wk@...> writes:

>

> Brad,

> NTE-116 or equivalent is perfect for the VO3C diodes

> 1N4002 will also work and is very common.

>

> 73,

> Gordon

> N6WK

>

>

>

> --- In TS-520_820_530_830@yahoogroups.com, "brad" <bjpenn@...>

> wrote:

> >

> > Hello All,

> >

> > My first post to this great group. I have, I think, resolved a
> problem with my TS-820S. The radio quit receiving, transmitting and
> the digital display went blank on me last week when I plugged in an
> external VFO-820 that I had purchased on Ebay. Long story short is
> that I found 2 broken wires in the external VFO cable.
> >
> > Just now I found what I think is now causing the problem with the
> radio. I found 2 cracked open diodes, D8 and D9, on the
> (X43-1090-02) rectifier unit. This affects the 14 volt line in the
> radio. I need to order replacements. The service manual lists D8 and
> D9 as a VOC3 diode. I am having trouble finding a replacement. Can
> anyone recommenend where I can purchase the VO3C or an equivalent?
> >
> > Any help would be greatly appreciated,
> >
> > Brad
> > KD5ZAT
> >
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> Yahoo! Groups Links
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25 Gigabyte per le tue foto online
http://www.windowslive.it/foto.aspx

[Non-text portions of this message have been removed]

23994. RE: [TS-520_820_530_830] Heads-up - Kenwood R-820 Receiver

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-16 19:50:35 UTC
From: Andrea Liverani
Topic: 23981 Message: 23994

I think that the price of ebay are the real value of object you cannot say you have payed twice the value.
At least you pay just 1 $ more than the price of the market suggest.

To: TS-520_820_530_830@yahoogroups.com
From: k3bz@...
Date: Wed, 16 Dec 2009 13:21:21 -0500
Subject: Re: [TS-520_820_530_830] Heads-up - Kenwood R-820 Receiver

Actually, I don't think one can ever pay "more than something is worth" on

e-bay.... an auction with a huge bidding audience like that pretty much

defines an item's "worth"....I can't imagine a better way to determine

"worth". And with such a large audience, I doubt Tom's comments would

change the outcome much.

73, Jerry K3BZ

----- Original Message -----

From: "John Cox" <n4mcy@...>

To: <TS-520_820_530_830@yahoogroups.com>

Sent: Wednesday, December 16, 2009 12:07 PM

Subject: Re: [TS-520_820_530_830] Heads-up - Kenwood R-820 Receiver

Thanks for telling the world about the receiver. I was hoping to bid on it

and win it without paying twice what it is worth, but I can forget that now.

--- On Wed, 12/16/09, sceneryguru <k3ssb@...> wrote:

From: sceneryguru <k3ssb@...>

Subject: [TS-520_820_530_830] Heads-up - Kenwood R-820 Receiver

To: TS-520_820_530_830@yahoogroups.com

Date: Wednesday, December 16, 2009, 2:51 PM

Good Morning Group:

I came across a very rare animal yesterday, as I

was sifting through the listings on Ebay. There is

a Kenwood R-820 Receiver up for sale. If I had the

funds I would certainly snap it up...

unfortunately, considering the time of year, I

just do not.

I mention the listing here because it's pretty

close to the top of my wish list. I'm sure that

I'm not alone. Particularly if you are the proud

owner of a TS820/S transceiver. If you're not

already aware... you can set-up the R-820 to slave

with your TS-820. Man that would sure be sweet.

Well enough said?

http://cgi.ebay. com/Kenwood- R-820-Communicat ions-R

eceiver-CLEAN_ W0QQitemZ2304121 67914QQcmdZViewI temQ

QptZLH_DefaultDomai n_0?hash= item35a5a2aaea& BackToL

istReferer=http% 3A%2F%2Fmy. ebay.com% 2Fws%2FeBayISA

PI.dll%3FMyEbayBeta

73 & Happy Holidays

Tom G, Sr.

K3SSB

[Non-text portions of this message have been removed]

Yahoo! Groups Links

Scopri tuttele novit? di Internet Explorer 8
http://www.microsoft.com/italy/windows/internet-explorer/msn.aspx

[Non-text portions of this message have been removed]

23995. Re: TS-820S Diode Replacement

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-16 18:31:56 UTC
From: brad
Topic: 23985 Message: 23995

Thanks Pete....

Brad
KD5ZAT

--- In TS-520_820_530_830@yahoogroups.com, pmarkavage <pmarkavage@...> wrote:
>
> !N4002 ,03, 04, 05, 06 ,07 will all work. Parts Express has 1N4007 for
> $.09 each. 10 or more $.07 each.
>
> Pete, wa2cwa
>
> On Wed, 16 Dec 2009 17:37:50 -0000 "n6wk_skcc3" <n6wk@...> writes:
> >
> > Brad,
> > NTE-116 or equivalent is perfect for the VO3C diodes
> > 1N4002 will also work and is very common.
> >
> > 73,
> > Gordon
> > N6WK
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "brad" <bjpenn@>
> > wrote:
> > >
> > > Hello All,
> > >
> > > My first post to this great group. I have, I think, resolved a
> > problem with my TS-820S. The radio quit receiving, transmitting and
> > the digital display went blank on me last week when I plugged in an
> > external VFO-820 that I had purchased on Ebay. Long story short is
> > that I found 2 broken wires in the external VFO cable.
> > >
> > > Just now I found what I think is now causing the problem with the
> > radio. I found 2 cracked open diodes, D8 and D9, on the
> > (X43-1090-02) rectifier unit. This affects the 14 volt line in the
> > radio. I need to order replacements. The service manual lists D8 and
> > D9 as a VOC3 diode. I am having trouble finding a replacement. Can
> > anyone recommenend where I can purchase the VO3C or an equivalent?
> > >
> > > Any help would be greatly appreciated,
> > >
> > > Brad

> > > KD5ZAT
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> >
> > Yahoo! Groups Links
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23996. RE: [TS-520_820_530_830] Heads-up - Kenwood R-820 Receiver

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-16 21:28:26 UTC
From: Nobody Nowhere
Topic: 23981 Message: 23996

Yikes. I did not realize that they had increased in price to that level.
With both cw filters it is a great cw receiver. Problem is finding mating connectors to access the mute circuit.

To: TS-520_820_530_830@yahoogroups.com
From: k3ssb@...
Date: Wed, 16 Dec 2009 14:51:16 +0000
Subject: [TS-520_820_530_830] Heads-up - Kenwood R-820 Receiver

Good Morning Group:

I came across a very rare animal yesterday, as I

was sifting through the listings on Ebay. There is

a Kenwood R-820 Receiver up for sale. If I had the

funds I would certainly snap it up...

unfortunately, considering the time of year, I

just do not.

I mention the listing here because it's pretty

close to the top of my wish list. I'm sure that

I'm not alone. Particularly if you are the proud

owner of a TS820/S transceiver. If you're not

already aware... you can set-up the R-820 to slave

with your TS-820. Man that would sure be sweet.

Well enough said?

http://cgi.ebay.com/Kenwood-R-820-Communications-R

eceiver-CLEAN_W0QQitemZ230412167914QQcmdZViewItemQ

QptZLH_DefaultDomain_0?hash=item35a5a2aaea&BackToL

istReferer=http%3A%2F%2Fmy.ebay.com%2Fws%2FeBayISA

PI.dll%3FMyEbayBeta

73 & Happy Holidays

Tom G, Sr.

K3SSB

_____
Your E-mail and More On-the-Go. Get Windows Live Hotmail Free.
http://clk.atdmt.com/GBL/go/171222985/direct/01/

[Non-text portions of this message have been removed]

23997. Re: TS-820S Diode Replacement

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-16 22:31:44 UTC
From: brad
Topic: 23985 Message: 23997

Thanks Dennis...I ordered me some 1N4002's from Mouser.

--- In TS-520_820_530_830@yahoogroups.com, "Dennis Windle" <denniswindle@...> wrote:
>
> My schematic shows those diodes (D8,9,10 & 11) as V06B's which cross to a NTE116 and the 1N4001 thru 1N4005 diodes also cross to a NTE116 so you have lots of options to look in your parts bins for to replace them.
>
> D.Windle
> ----- Original Message -----
> From: brad
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, December 16, 2009 12:22 PM
> Subject: [TS-520_820_530_830] TS-820S Diode Replacement
>
>
>
> Hello All,
>
> My first post to this great group. I have, I think, resolved a problem with my TS-820S. The radio quit receiving, transmitting and the digital display went blank on me last week when I plugged in an external VFO-820 that I had purchased on Ebay. Long story short is that I found 2 broken wires in the external VFO cable.
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>
> Any help would be greatly appreciated,
>
> Brad
> KD5ZAT
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> [Non-text portions of this message have been removed]
>

23998. Re: TS-820S Diode Replacement

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-16 22:51:54 UTC
From: brad
Topic: 23985 Message: 23998

Good point. I really haven't had a chance to troubleshoot the VFO-820 yet. When I plugged it in the other night and the radio failed, I have been trying to fix the radio since then. I'll do some vfo-820 troubleshooting tonight since I am waiting on the diodes for the rectifier board.

I am now pretty sure I killed D8 and D9 on the rectifier a couple of nights ago while trying to do some measurements on the ac input. I got a little spark and then notice D8 and D9 this morning.

The initial problem is the 9 volt supply at the AF-AVR circuit board(X49-1080-00). Before I killed the diodes on the rectifier board, the problem with the radio seemed to center around the 9 volts on that board. I was reading 6.16v on the collector of Q7 and it should be 9v. I have no 9v adjustment via VR4. I suspect the I have a bad transistor Q4, Q5, Q6 or Q7.

All I do know for sure is that after I plugged in the VFO-820 the other night it was all down hill. The radio won't receive, transmit and the digital display is blank.

Brad
KD5ZAT

--- In TS-520_820_530_830@yahoogroups.com, Andrea Liverani <andrealiverani@...> wrote:
>
>
> Oh just what happened to my 820... the previous owner made the same thing .
> In my case it was also shorted the diode in the external vfo (the only one you can see
> on the board with relay. So before replacing the rectifier diodes check also that diode.
> I put an internal fuse to protect the 14v line i suggest you to do the same.
>
> To: TS-520_820_530_830@yahoogroups.com
> From: pmarkavage@...
> Date: Wed, 16 Dec 2009 13:13:38 -0500
> Subject: Re: [TS-520_820_530_830] Re: TS-820S Diode Replacement
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> !N4002 ,03, 04, 05, 06 ,07 will all work. Parts Express has 1N4007 for
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> $.09 each. 10 or more $.07 each.
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> On Wed, 16 Dec 2009 17:37:50 -0000 "n6wk_skcc3" <n6wk@...> writes:
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> > Brad,
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> > NTE-116 or equivalent is perfect for the VO3C diodes
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> >
>
> > 73,
>
> > Gordon
>
> > N6WK
>
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> >
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> > --- In TS-520_820_530_830@yahoogroups.com, "brad" <bjpenn@>

>
> > wrote:
>
> > >
>
> > > Hello All,
>
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> > > My first post to this great group. I have, I think, resolved a
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> > problem with my TS-820S. The radio quit receiving, transmitting and
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> > the digital display went blank on me last week when I plugged in an
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> > external VFO-820 that I had purchased on Ebay. Long story short is
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> > that I found 2 broken wires in the external VFO cable.
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> > > Just now I found what I think is now causing the problem with the
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> > (X43-1090-02) rectifier unit. This affects the 14 volt line in the
>
> > radio. I need to order replacements. The service manual lists D8 and
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> > D9 as a VOC3 diode. I am having trouble finding a replacement. Can
>
> > anyone recommenend where I can purchase the VO3C or an equivalent?
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> > > Any help would be greatly appreciated,
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> > > Brad
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> > > KD5ZAT
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23999. Re: [TS-520_820_530_830] Heads-up - Kenwood R-820 Receiver

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-16 23:16:28 UTC
From: Daniel TOESCA
Topic: 23981 Message: 23999

As I see there is no extra filter.....

Paid mine 152 euros in Germany - roughly $230 - plus shipping, with 250 Hz
CW filter.

Good luck !!!

73's - Daniel, ON5PY

2009/12/16, Nobody Nowhere <rock_sci@...>:
>
>
> Yikes. I did not realize that they had increased in price to that level.
> With both cw filters it is a great cw receiver. Problem is finding mating
> connectors to access the mute circuit.
>
>
> To: TS-520_820_530_830@yahoogroups.com
> From: k3ssb@...
> Date: Wed, 16 Dec 2009 14:51:16 +0000
> Subject: [TS-520_820_530_830] Heads-up - Kenwood R-820 Receiver
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>

>
>
>
> Good Morning Group:
>
>
>
> I came across a very rare animal yesterday, as I
>
> was sifting through the listings on Ebay. There is
>
> a Kenwood R-820 Receiver up for sale. If I had the
>
> funds I would certainly snap it up...
>
> unfortunately, considering the time of year, I
>
> just do not.
>
>
>
> I mention the listing here because it's pretty
>
> close to the top of my wish list. I'm sure that
>
> I'm not alone. Particularly if you are the proud
>
> owner of a TS820/S transceiver. If you're not
>
> already aware... you can set-up the R-820 to slave
>
> with your TS-820. Man that would sure be sweet.
>
> Well enough said?
>
>
>
> http://cgi.ebay.com/Kenwood-R-820-Communications-R
>
> eceiver-CLEAN_W0QQitemZ230412167914QQcmdZViewItemQ
>
> QptZLH_DefaultDomain_0?hash=item35a5a2aaea&BackToL
>
> istReferer=http%3A%2F%2Fmy.ebay.com%2Fws%2FeBayISA
>
> PI.dll%3FMyEbayBeta
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> 73 & Happy Holidays

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> Tom G, Sr.
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> Your E-mail and More On-the-Go. Get Windows Live Hotmail Free.
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24000. Re: TS-820S Diode Replacement

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-16 23:34:47 UTC
From: w5rkl
Topic: 23985 Message: 24000

The diode you are talking about in the VFO-820 is a relay collapsing field protection diode. It can be a simple 1N4001 diode. You don't have to buy a special diode. It nothing more than a simple silicon diode connected across the relay coil. Just be sure you install the diode the correct way, the banded end at the right relay coil terminal.

I suspect Q7 on your 820's AF AVR board is toast. You can find NOS 2SA496Ys at the following website.

http://www.electronicsurplus.com/ccp78762-to-220-pnp-transistor-2sa496-y-13844.htm

If you replace Q7 I also recommend replacing D5, 6 volt zener as well.

A short on the 9VDC buss can easily take out Q7. Remember, the receiver's bias voltage, 3.3VDC and the 9VDC are all created from the 14VDC supply and are controlled on the AF AVR board. When adjusting these voltage, adjust the 9VDC first followed then by the 3.3VDC.

A blown Q7 regulator on the AF AVR board it's no wonder the 820 has problem in both transmit and receive. Most of the solid state circuitry is powered by the 9VDC supply and the receiver's bias voltage also comes from the 3.3VDC.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "brad" <bjpenn@...> wrote:
>
> Good point. I really haven't had a chance to troubleshoot the VFO-820 yet. When I plugged it in the other night and the radio failed, I have been trying to fix the radio since then. I'll do some vfo-820 troubleshooting tonight since I am waiting on the diodes for the rectifier board.
>
> I am now pretty sure I killed D8 and D9 on the rectifier a couple of nights ago while trying to do some measurements on the ac input. I got a little spark and then notice D8 and D9 this morning.
>
> The initial problem is the 9 volt supply at the AF-AVR circuit board(X49-1080-00). Before I killed the diodes on the rectifier board, the problem with the radio seemed to center around the 9 volts on that board. I was reading 6.16v on the collector of Q7 and it should be 9v. I have no 9v adjustment via VR4. I suspect the I have a bad transistor Q4, Q5, Q6 or Q7.
>
> All I do know for sure is that after I plugged in the VFO-820 the other night it was all down hill. The radio won't receive, transmit and the digital display is blank.
>
>
> Brad
> KD5ZAT
>

> --- In TS-520_820_530_830@yahoogroups.com, Andrea Liverani <andrealiverani@> wrote:
> >
> >
> > Oh just what happened to my 820... the previous owner made the same thing .
> > In my case it was also shorted the diode in the external vfo (the only one you can see
> > on the board with relay. So before replacing the rectifier diodes check also that
diode.
> > I put an internal fuse to protect the 14v line i suggest you to do the same.
> >
> > To: TS-520_820_530_830@yahoogroups.com
> > From: pmarkavage@
> > Date: Wed, 16 Dec 2009 13:13:38 -0500
> > Subject: Re: [TS-520_820_530_830] Re: TS-820S Diode Replacement
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> > !N4002 ,03, 04, 05, 06 ,07 will all work. Parts Express has 1N4007 for
> >
> > $.09 each. 10 or more $.07 each.
> >
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> >
> > Pete, wa2cwa
> >
> >

> >
> > On Wed, 16 Dec 2009 17:37:50 -0000 "n6wk_skcc3" <n6wk@> writes:
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> > >
> >
> > > Brad,
> >
> > > NTE-116 or equivalent is perfect for the VO3C diodes
> >
> > > 1N4002 will also work and is very common.
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> > > 73,
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> > > Gordon
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> > > N6WK
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> > > --- In TS-520_820_530_830@yahoogroups.com, "brad" <bjpenn@>
> >
> > > wrote:
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> >
> > > > Hello All,
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> > > > My first post to this great group. I have, I think, resolved a
> >
> > > problem with my TS-820S. The radio quit receiving, transmitting and
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> > > the digital display went blank on me last week when I plugged in an
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> > > external VFO-820 that I had purchased on Ebay. Long story short is
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> > > that I found 2 broken wires in the external VFO cable.
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> > > > Just now I found what I think is now causing the problem with the
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> > > radio. I found 2 cracked open diodes, D8 and D9, on the

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> > > (X43-1090-02) rectifier unit. This affects the 14 volt line in the
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> > > D9 as a VOC3 diode. I am having trouble finding a replacement. Can
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> > > anyone recommenend where I can purchase the VO3C or an equivalent?
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> > > > Any help would be greatly appreciated,
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> > [Non-text portions of this message have been removed]
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24001. Re: [TS-520_820_530_830] Re: RTTY & CW Reception

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-17 00:24:29 UTC
From: Chuck Goelz
Topic: 23950 Message: 24001

John,

sorry I've taken so long to respond.

The last part of this post mentions that you see almost the same things on the waterfall regardless of the connections to the radio... I'm wondering if you have your cable connected to the MIC input instead of the Line Input of the soundcard. If you are driving the MIC input, you will probably overdrive it if you don't provide some attenuation in the line. Winwarbler will warn of an overdriven input with a "Soundcard Overload" message (or something to that effect) in the "Receive Channel" panel, left side, just above the waterfall.. You can adjust the soundcard levels using the sliders in the Winwarbler Config window, under the soundcard tab, Mixer Adjustments (at the bottom), but if you're driving the Mic input you might not have enough range and resolution on the slider without the external attenuation. You should only be seeing a dark background on the waterfall with no signal input.

Another point is that when using a direct audio connection (one without isolation transformers), you should make sure that both the radio and the computer chassis are grounded to a common ground point. I would not rely on power cords to provide the grounds!

Cheers, and GL,
Chuck WA3CEJ

----- Original Message -----
From: Music Maker
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, December 14, 2009 11:53 PM
Subject: [TS-520_820_530_830] Re: RTTY & CW Reception

Thanks Chuck,

Thank you for your speedy response, and helpful post.

I have downloaded the whole suite of programs, not had time to look at others in there, but have concentrated on the WinWarbler. There are just so many parameters in the 'Set Up' panes, and a lot I just don't know what to enter, but I will read the documentation to see first.

I still have the same problem with WinWarbler as I am having with MULTIPSK - so, I am going back to trouble shoot. Firstly, I needed a connection line with a 3.5mm Jack on one end (computer soundcard), and a 6.5mm Jack (for the Transceiver Phones Socket). I made one up from the stereo plug off a pair of ear buds (can't get inside to solder properly, so just joined wire to wire. So - Firstly, I have just ordered a 3.3mm to 3.5mm 2 Metre Audio patch, and a 3.5mm to 6.5mm 'converter Jack' - Can't find anything 'Mono', so using Stereo. I assume that is OK? - I will report back, when they have arrived from Ebay, and I have tried a 'proper' connection. Even when I pull out the plug from the transceiver at the moment, there are almost the same signals on the 'waterfall' !!

Once again, Thanks !!

John - G3OBU

T

--- In TS-520_820_530_830@yahoogroups.com, "Chuck Goelz" <c.goelz@...> wrote:
>
> John,
>
> You could try DxLab Suite (free download at www.dxlabsuite.com). It consists of individual components for logging, callbook lookups, propagation forecasting, award tracking, rig control (not applicable to hybrids!), eQSL & LotW submissions, and the part you may want, WinWarbler for RTTY and PSK (31, 63, and 125). None of the components require any other component... Support directly from the author via the Dxlab Yahoo group is superb!
>
> I used this suite with my 599 Twins using just simple connections to the soundcard (some padding of signal levels (both ways) was required).
>
> I haven't used multipsk, but have worked many who do... Apparently it does work! But maybe WinWarbler will be more to your liking. If you have any questions about, feel free to contact me off-list, or reply here...
>
> Cheers & GL,
> Chuck WA3CEJ
>
>
> ----- Original Message -----
> From: Music Maker
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, December 14, 2009 6:38 PM
> Subject: [TS-520_820_530_830] RTTY & CW Reception
>
>
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>
>
> Hi All,
>
> I wonder, just wonder - Is anyone using a program called 'MULTIPSK' ?
>
> For the moment, I am just trying to get it to work on receive - with the connection from my Loudspeaker Socket into the Mic Socket on my Computer. I get nothing on CW, or on PSK, but do get a string of 'Garble' on RTTY. (I have also tried the 'Lene in')
>
> Years ago, I used to use a 'Commodore 64' (Before PCs came out!), and had a great program that I could Tx and RX with (and do SSTV), and it all came on one 720K Floppy!
>
> I get the 'waterfall, and spectrum graphs, and have tried moving the cursor on to every 'peak' - but Nada, nothing, zero, zilch!
>

> Is anyone else using any FREE software that is simpler to use that I can also use without a TNC or Modem ?
>
> Thanks in advance ....
>
> John G3OBU
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24002. Re: TS-820S Diode Replacement

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-17 01:30:30 UTC
From: brad
Topic: 23985 Message: 24002

Hello Mike...Thanks so much for the information on the AF AVR board. Also thanks for the tip on the Q7 source. A friend is going to bring his in-circuit transistor checker over tomorrow. Like you, he and I are both suspicious of Q7.

Would you happen to have a good source for the D5 diode (WZ-061) or an equivalent on the AF AVR board?

Thanks for your help. I really appreciate it. I am quite new to troubleshooting radios. I need all the help I can get.

Thanks again,

Brad
KD5ZAT

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
>
>
> The diode you are talking about in the VFO-820 is a relay collapsing field protection diode. It can be a simple 1N4001 diode. You don't have to buy a special diode. It nothing more than a simple silicon diode connected across the relay coil. Just be sure you install the diode the correct way, the banded end at the right relay coil terminal.
>
> I suspect Q7 on your 820's AF AVR board is toast. You can find NOS 2SA496Ys at the following website.
>
> http://www.electronicsurplus.com/ccp78762-to-220-pnp-transistor-2sa496-y-13844.htm
>
> If you replace Q7 I also recommend replacing D5, 6 volt zener as well.
>
> A short on the 9VDC buss can easily take out Q7. Remember, the receiver's bias voltage, 3.3VDC and the 9VDC are all created from the 14VDC supply and are controlled on the AF AVR board. When adjusting these voltage, adjust the 9VDC first followed then by the 3.3VDC.
>
> A blown Q7 regulator on the AF AVR board it's no wonder the 820 has problem in both transmit and receive. Most of the solid state circuitry is powered by the 9VDC supply and the receiver's bias voltage also comes from the 3.3VDC.
>
> 73s
> Mike W5RKL
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "brad" <bjpenn@> wrote:
> >

> > Good point. I really haven't had a chance to troubleshoot the VFO-820 yet. When I plugged it in the other night and the radio failed, I have been trying to fix the radio since then. I'll do some vfo-820 troubleshooting tonight since I am waiting on the diodes for the rectifier board.
> >
> > I am now pretty sure I killed D8 and D9 on the rectifier a couple of nights ago while trying to do some measurements on the ac input. I got a little spark and then notice D8 and D9 this morning.
> >
> > The initial problem is the 9 volt supply at the AF-AVR circuit board(X49-1080-00). Before I killed the diodes on the rectifier board, the problem with the radio seemed to center around the 9 volts on that board. I was reading 6.16v on the collector of Q7 and it should be 9v. I have no 9v adjustment via VR4. I suspect the I have a bad transistor Q4, Q5, Q6 or Q7.
> >
> > All I do know for sure is that after I plugged in the VFO-820 the other night it was all down hill. The radio won't receive, transmit and the digital display is blank.
> >
> >
> > Brad
> > KD5ZAT
> >
> > --- In TS-520_820_530_830@yahoogroups.com, Andrea Liverani <andrealiverani@> wrote:
> > >
> > >
> > > Oh just what happened to my 820... the previous owner made the same thing .
> > > In my case it was also shorted the diode in the external vfo (the only one you can see
> > > on the board with relay. So before replacing the rectifier diodes check also that diode.
> > > I put an internal fuse to protect the 14v line i suggest you to do the same.
> > >
> > > To: TS-520_820_530_830@yahoogroups.com
> > > From: pmarkavage@
> > > Date: Wed, 16 Dec 2009 13:13:38 -0500
> > > Subject: Re: [TS-520_820_530_830] Re: TS-820S Diode Replacement
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> > > $.09 each. 10 or more $.07 each.
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> > > On Wed, 16 Dec 2009 17:37:50 -0000 "n6wk_skcc3" <n6wk@> writes:
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> > > > Brad,
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> > > > NTE-116 or equivalent is perfect for the VO3C diodes
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> > > > --- In TS-520_820_530_830@yahoogroups.com, "brad" <bjpenn@>
> > >

> > > > wrote:
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> > > > >
> > >
> > > > > Hello All,
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> > > > > >
> > >
> > > > > My first post to this great group. I have, I think, resolved a
> > >
> > > > > problem with my TS-820S. The radio quit receiving, transmitting and
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> > > > > the digital display went blank on me last week when I plugged in an
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> > > > > external VFO-820 that I had purchased on Ebay. Long story short is
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> > > > > that I found 2 broken wires in the external VFO cable.
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> > > > > Just now I found what I think is now causing the problem with the
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> > > > > radio. I found 2 cracked open diodes, D8 and D9, on the
> > >
> > > > > (X43-1090-02) rectifier unit. This affects the 14 volt line in the
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> > > > > radio. I need to order replacements. The service manual lists D8 and
> > >
> > > > > D9 as a VOC3 diode. I am having trouble finding a replacement. Can
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> > > > > anyone recommenend where I can purchase the VO3C or an equivalent?
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> > > > > Any help would be greatly appreciated,
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> > > > > Brad
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24003. Got a new Hybrid coming

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-17 10:59:45 UTC
From: Aaron
Topic: 24003 Message: 24003

I guess it would be fine to source some info on this rig here. Anyways I have a TS-900 coming and don't know much about these Kenwoods. Looking maybe for some manuals and soem general input on them. Should be a nice addition to the station and park it next to the 830.

Aaron
KD4GSL

24004. Re: [TS-520_820_530_830] Re: audio transmit gain on ts 820 low

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-16 03:29:12 UTC
From: martin
Topic: 23946 Message: 24004

Hi Kevin. The TS-520 requires a high impedance mic. The TS-530S and TS-830S can use either high or low impedance according to the manuals. On the TS-530S and TS-830S, use whichever setting of the MC-50 works/sounds best.

As far as the MC-50 having low output, try the other impedance. Also, I did have a problem with mine when I first got it. It had low output no matter which setting I tried. Then I disconnected the mic base, and connected the mic to the cord to the radio, and output was normal. I had a bad cord between the mic and the base.

The MC-50 should give plenty of audio unless there is a problem. No amplification should be needed.

TTYL

kevin wrote:
> I am using an MC-50 on my 520 (primary) 530 and 830. Which
> impedance should I use on which rig or do they all the same? Kevin
> KD0ILM
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at http://www.defectivebydesign.org/what_is_drm"

24005. Re: [TS-520_820_530_830] Got a new Hybrid coming

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-17 11:49:51 UTC
From: Chris and Alex
Topic: 24003 Message: 24005

Lucky guy Aaron. I've just taken a look at the TS-900 here
http://www.eham.net/reviews/detail/773

<http://www.eham.net/reviews/detail/773>It looks to be a really nice set.
I'd always thought that the TS-830 was the last hybrid made.

Chris SV0XBQ/9

2009/12/17 Aaron <wm.aaron.lamb@...>

>
>
> I guess it would be fine to source some info on this rig here. Anyways I
> have a TS-900 coming and don't know much about these Kenwoods. Looking maybe
> for some manuals and soem general input on them. Should be a nice addition
> to the station and park it next to the 830.
>
> Aaron
> KD4GSL
>
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[Non-text portions of this message have been removed]

24006. Re: TS-820S Diode Replacement

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-17 12:05:34 UTC
From: w5rkl
Topic: 23985 Message: 24006

Hello Brad,

Mouser Electronics, www.mouser.com sells a 6.2 volt 1/2 watt axial lead zener diode under part number:

512-1N5234B
Price: 6 cents
16K currently in stock

A possible replacement for Q4, Q5, and Q6 is an NTE-85. Mouser part number:

526-NTE85
Price $1.29
55 currently in stock

The NTE-85 has the same TO-92 package and same basic electrical specification plus the same lead orientation "E C B"as the original 2SC372.

Another possible replacement for Q4 thru Q6 is the 2N3904. The 2N3904 has the same TO-92 package, same basic electrical specifications, but the lead orientation is slightly different, "E B C" verses "E C B".

For convenience in mounting I would choose the NTE-85 simply because of it's lead orientation, they are the same as the original 2SC372. No fiddling with the leads when installing.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "brad" <bjpenn@...> wrote:
>
> Hello Mike...Thanks so much for the information on the AF AVR board. Also thanks for the tip on the Q7 source. A friend is going to bring his in-circuit transistor checker over tomorrow. Like you, he and I are both suspicious of Q7.
>
> Would you happen to have a good source for the D5 diode (WZ-061) or an equivalent on the AF AVR board?
>
> Thanks for your help. I really appreciate it. I am quite new to troubleshooting radios. I need all the help I can get.
>
> Thanks again,
>
> Brad
> KD5ZAT
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:

> >
> >
> >
> > The diode you are talking about in the VFO-820 is a relay collapsing field protection diode. It can be a simple 1N4001 diode. You don't have to buy a special diode. It nothing more than a simple silicon diode connected across the relay coil. Just be sure you install the diode the correct way, the banded end at the right relay coil terminal.
> >
> > I suspect Q7 on your 820's AF AVR board is toast. You can find NOS 2SA496Ys at the following website.
> >
> > http://www.electronicsurplus.com/ccp78762-to-220-pnp-transistor-2sa496-y-13844.htm
> >
> > If you replace Q7 I also recommend replacing D5, 6 volt zener as well.
> >
> > A short on the 9VDC buss can easily take out Q7. Remember, the receiver's bias voltage, 3.3VDC and the 9VDC are all created from the 14VDC supply and are controlled on the AF AVR board. When adjusting these voltage, adjust the 9VDC first followed then by the 3.3VDC.
> >
> > A blown Q7 regulator on the AF AVR board it's no wonder the 820 has problem in both transmit and receive. Most of the solid state circuitry is powered by the 9VDC supply and the receiver's bias voltage also comes from the 3.3VDC.
> >
> > 73s
> > Mike W5RKL
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "brad" <bjpenn@> wrote:
> > >
> > > Good point. I really haven't had a chance to troubleshoot the VFO-820 yet. When I plugged it in the other night and the radio failed, I have been trying to fix the radio since then. I'll do some vfo-820 troubleshooting tonight since I am waiting on the diodes for the rectifier board.
> > >
> > > I am now pretty sure I killed D8 and D9 on the rectifier a couple of nights ago while trying to do some measurements on the ac input. I got a little spark and then notice D8 and D9 this morning.
> > >
> > > The initial problem is the 9 volt supply at the AF-AVR circuit board(X49-1080-00). Before I killed the diodes on the rectifier board, the problem with the radio seemed to center around the 9 volts on that board. I was reading 6.16v on the collector of Q7 and it should be 9v. I have no 9v adjustment via VR4. I suspect the I have a bad transistor Q4, Q5, Q6 or Q7.
> > >
> > > All I do know for sure is that after I plugged in the VFO-820 the other night it was all down hill. The radio won't receive, transmit and the digital display is blank.
> > >
> > >
> > > Brad

> > > KD5ZAT
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, Andrea Liverani <andrealiverani@> wrote:
> > > >
> > > >
> > > > Oh just what happened to my 820... the previous owner made the same thing .
> > > > In my case it was also shorted the diode in the external vfo (the only one you can
see
> > > > on the board with relay. So before replacing the rectifier diodes check also that
diode.
> > > > I put an internal fuse to protect the 14v line i suggest you to do the same.
> > > >
> > > > To: TS-520_820_530_830@yahoogroups.com
> > > > From: pmarkavage@
> > > > Date: Wed, 16 Dec 2009 13:13:38 -0500
> > > > Subject: Re: [TS-520_820_530_830] Re: TS-820S Diode Replacement
> > > >
> > > >
> > > >

> > > > Pete, wa2cwa
> > > >
> > > >
> > > >
> > > > On Wed, 16 Dec 2009 17:37:50 -0000 "n6wk_skcc3" <n6wk@> writes:
> > > >
> > > > >
> > > >
> > > > > Brad,
> > > >
> > > > > NTE-116 or equivalent is perfect for the VO3C diodes
> > > >
> > > > > 1N4002 will also work and is very common.
> > > >
> > > > >
> > > >
> > > > > 73,
> > > >
> > > > > Gordon
> > > >
> > > > > N6WK
> > > >
> > > > >
> > > >
> > > > >
> > > >
> > > > >
> > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com, "brad" <bjpenn@>
> > > >
> > > > > wrote:
> > > >
> > > > > >
> > > >
> > > > > > Hello All,
> > > >
> > > > > >
> > > >
> > > > > > My first post to this great group. I have, I think, resolved a
> > > >
> > > > > problem with my TS-820S. The radio quit receiving, transmitting and
> > > >
> > > > > the digital display went blank on me last week when I plugged in an
> > > >
> > > > > external VFO-820 that I had purchased on Ebay. Long story short is
> > > >
> > > > > that I found 2 broken wires in the external VFO cable.
> > > >
> > > > > >
> > > >

> > > > > > Just now I found what I think is now causing the problem with the
> > > > >
> > > > > > radio. I found 2 cracked open diodes, D8 and D9, on the
> > > > >
> > > > > > (X43-1090-02) rectifier unit. This affects the 14 volt line in the
> > > > >
> > > > > > radio. I need to order replacements. The service manual lists D8 and
> > > > >
> > > > > > D9 as a VOC3 diode. I am having trouble finding a replacement. Can
> > > > >
> > > > > > anyone recommenend where I can purchase the VO3C or an equivalent?
> > > > >
> > > > > > >
> > > > >
> > > > > > > Any help would be greatly appreciated,
> > > > >
> > > > > > >
> > > > >
> > > > > > > Brad
> > > > >
> > > > > > > KD5ZAT
> > > > >
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> > > > > > Yahoo! Groups Links
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> > > > _____
> > > > 25 Gigabyte per le tue foto online
> > > > http://www.windowslive.it/foto.aspx
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > >
> >
>

24007. Re: Got a new Hybrid coming

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-17 12:17:23 UTC
From: w5rkl
Topic: 24003 Message: 24007

Aaron,

The TS-900 manual is available from Kenwood at the following link:

http://inform3.kenwoodusa.com/Manuals%5CTS-900.pdf

The manual is 34.5MB in size so it will take a few minutes to download. It require the Adobe reader to view it. Therefore, if you do not have the Adobe reader, you can get the latest Adobe reader, free, at the following link:

http://get.adobe.com/reader/

I recommend reviewing the manual thoroughly so you have a good working knowledge of how the transceiver works, what each control is used for and how to use them, plus any specific warnings Kenwood provides. The ole "Trial and Error" method of learning what each control does is not a good idea. In other words, don't "guess" what a control does, read about it in the manual so you know what it is used for and how to use it properly. All too often hams can get caught up in the excitement of a owning new or different radio and forget about reading the manual.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Aaron" <wm.aaron.lamb@...> wrote:
>
> I guess it would be fine to source some info on this rig here. Anyways I have a TS-900 coming and don't know much about these Kenwoods. Looking maybe for some manuals and soem general input on them. Should be a nice addition to the station and park it next to the 830.
>
> Aaron
> KD4GSL
>

24008. Re: Got a new Hybrid coming

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-17 12:53:22 UTC
From: Aaron
Topic: 24003 Message: 24008

Chris,
The TS-900 is older than the 830, it may be a touch older than the X20 series too. I don't much about the history on these things why I threw it out there. Might make for a good discussion.

Aaron
KD4GSL

--- In TS-520_820_530_830@yahoogroups.com, Chris and Alex <alexandchrisp@...> wrote:
>
> Lucky guy Aaron. I've just taken a look at the TS-900 here
> http://www.eham.net/reviews/detail/773
>
> <http://www.eham.net/reviews/detail/773>It looks to be a really nice set.
> I'd always thought that the TS-830 was the last hybrid made.
>
> Chris SV0XBQ/9
>
> 2009/12/17 Aaron <wm.aaron.lamb@...>
>
> >
> >
> > I guess it would be fine to source some info on this rig here. Anyways I
> > have a TS-900 coming and don't know much about these Kenwoods. Looking maybe
> > for some manuals and soem general input on them. Should be a nice addition
> > to the station and park it next to the 830.
> >
> > Aaron
> > KD4GSL
> >
> >
> >
>
>
> [Non-text portions of this message have been removed]
>

24009. Re: Got a new Hybrid coming

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-17 13:14:05 UTC
From: Aaron
Topic: 24003 Message: 24009

Thanks Mike,
Looks pretty straight forward and wow.. really easy to work on at first glance.

Aaron
KD4GSL

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Aaron,
>
> The TS-900 manual is available from Kenwood at the following link:
>
> http://inform3.kenwoodusa.com/Manuals%5CTS-900.pdf
>
> The manual is 34.5MB in size so it will take a few minutes to download. It require the Adobe reader to view it. Therefore, if you do not have the Adobe reader, you can get the latest Adobe reader, free, at the following link:
>
> http://get.adobe.com/reader/
>
> I recommend reviewing the manual thoroughly so you have a good working knowledge of how the transceiver works, what each control is used for and how to use them, plus any specific warnings Kenwood provides. The ole "Trial and Error" method of learning what each control does is not a good idea. In other words, don't "guess" what a control does, read about it in the manual so you know what it is used for and how to use it properly. All too often hams can get caught up in the excitement of a owning new or different radio and forget about reading the manual.
>
> 73s
> Mike W5RKL
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Aaron" <wm.aaron.lamb@> wrote:
> >
> > I guess it would be fine to source some info on this rig here. Anyways I have a TS-900 coming and don't know much about these Kenwoods. Looking maybe for some manuals and soem general input on them. Should be a nice addition to the station and park it next to the 830.
> >
> > Aaron
> > KD4GSL
> >
>

24010. Re: [TS-520_820_530_830] Heads-up - Kenwood R-820 Receiver

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-17 13:21:25 UTC
From: dennis hatch
Topic: 23981 Message: 24010

I have five R-820 receivers, one like new in the original box. I'll trade all five for a new ROLLS-ROYCE.

--- On Wed, 12/16/09, Jerry Keller <k3bz@arrl.net> wrote:

From: Jerry Keller <k3bz@...>
Subject: Re: [TS-520_820_530_830] Heads-up - Kenwood R-820 Receiver
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, December 16, 2009, 12:21 PM

Actually, I don't think one can ever pay "more than something is worth" on e-bay.... an auction with a huge bidding audience like that pretty much defines an item's "worth"....I can't imagine a better way to determine "worth". And with such a large audience, I doubt Tom's comments would change the outcome much.

73, Jerry K3BZ

----- Original Message -----
From: "John Cox" <n4mcy@yahoo.com>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, December 16, 2009 12:07 PM
Subject: Re: [TS-520_820_530_830] Heads-up - Kenwood R-820 Receiver

Thanks for telling the world about the receiver. I was hoping to bid on it and win it without paying twice what it is worth, but I can forget that now.

--- On Wed, 12/16/09, sceneryguru <k3ssb@...> wrote:

From: sceneryguru <k3ssb@...>
Subject: [TS-520_820_530_830] Heads-up - Kenwood R-820 Receiver
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, December 16, 2009, 2:51 PM

Good Morning Group:

I came across a very rare animal yesterday, as I
was sifting through the listings on Ebay. There is
a Kenwood R-820 Receiver up for sale. If I had the
funds I would certainly snap it up...
unfortunately, considering the time of year, I
just do not.

I mention the listing here because it's pretty
close to the top of my wish list. I'm sure that
I'm not alone. Particularly if you are the proud
owner of a TS820/S transceiver. If you're not
already aware... you can set-up the R-820 to slave

with your TS-820. Man that would sure be sweet.
Well enough said…

http://cgi.ebay. com/Kenwood- R-820-Communicat ions-R
eceiver-CLEAN_ W0QQitemZ2304121 67914QQcmdZViewI temQ
QptZLH_DefaultDomai n_0?hash= item35a5a2aaea& BackToL
istReferer=http% 3A%2F%2Fmy. ebay.com% 2Fws%2FeBayISA
PI.dll%3FMyEbayBeta

73 & Happy Holidays

Tom G, Sr.
K3SSB

[Non-text portions of this message have been removed]

Yahoo! Groups Links

Yahoo! Groups Links

[Non-text portions of this message have been removed]

24011. Re: Got a new Hybrid coming

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-17 14:00:40 UTC
From: w5rkl
Topic: 24003 Message: 24011

You're welcome Aaron.

The maximum PEP input power is 300 watts in sideband with a PEP output of 150 watts. Having said that, don't be fooled into believing that pushing the 900 for those few extra "useless" watts output will make a difference at the receiving end. Believe me, 20 or 30 watts less PEP output will not be noticed at the receiving end!

Keep the the cooling fan clean and lubricated, clean the dust out of the final cage on a regular basis, clean off dust accumulation on the tubes as dust acts like a blanket and prevents cooling of the tube by the cooling fan. The same goes for components such as RF chokes, resistors, capacitors, and other components. In other words, keep the radio clean and don't abuse the 900 and it will serve you well for years to come.

If you do not feel comfortable working on the 900 because of your technical ability, by all means, find a local ham who can help you.

Just some thoughts you may not have considered.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Aaron" <wm.aaron.lamb@...> wrote:
>
> Thanks Mike,
> Looks pretty straight forward and wow.. really easy to work on at first glance.
>
> Aaron
> KD4GSL
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Aaron,
> >
> > The TS-900 manual is available from Kenwood at the following link:
> >
> > http://inform3.kenwoodusa.com/Manuals%5CTS-900.pdf
> >
> > The manual is 34.5MB in size so it will take a few minutes to download. It require the Adobe reader to view it. Therefore, if you do not have the Adobe reader, you can get the latest Adobe reader, free, at the following link:
> >
> > http://get.adobe.com/reader/
> >
> > I recommend reviewing the manual thoroughly so you have a good working knowledge of how the transceiver works, what each control is used for and how to use them, plus any specific warnings Kenwood provides. The ole "Trial and Error" method of learning what each control

does is not a good idea. In other words, don't "guess" what a control does, read about it in the manual so you know what it is used for and how to use it properly. All too often hams can get caught up in the excitement of a owning new or different radio and forget about reading the manual.
> >
> > 73s
> > Mike W5RKL
> >
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Aaron" <wm.aaron.lamb@> wrote:
> > >
> > > I guess it would be fine to source some info on this rig here. Anyways I have a TS-900 coming and don't know much about these Kenwoods. Looking maybe for some manuals and soem general input on them. Should be a nice addition to the station and park it next to the 830.
> > >
> > > Aaron
> > > KD4GSL
> > >
> >
>

24012. Re: Got a new Hybrid coming

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-17 15:49:12 UTC
From: w5rkl
Topic: 24003 Message: 24012

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> The maximum PEP input power is 300 watts in sideband with a PEP
> output of 150 watts.

I forgot to mention the TS-900 appears to come in 4 different models, TS-900, TS-900S, TS-900X, and TS-900D. The individual model determines the power input and output based on the type and number of tubes in the final amplifier.

You 900 may have sweep tubes in the final which, when treated properly and not abused, will last a long time.

73s
Mike W5RKL

24013. RE: [TS-520_820_530_830] Got a new Hybrid coming

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-17 15:50:01 UTC
From: Greg Anders
Topic: 24003 Message: 24013

GOT ONE,

Manual is on dk.mods I think. No schematics to be found yet for the power supply. Speaker in psply is "crap". I use a 940S speaker with it, much better.

This is a super heavy duty, almost "mil-spec", high-end (~$1100 in 1972) transceiver. I like the 70's "stereo" front panel, just like the Kenwood twins.

All circuits are on glass epoxy. plug in boards that swing down out of the card rack for servicing.

The rear panel pots for bias, etc have screw on caps to prevent unintentional movement of settings.

6LQ6's do about 150-180W PEP depending on freq.

RF gain control is actually an attenuator. The AGC is very sophisticated. The RF gain control has steps. When you step down from maximum it acts lik an attenuator and the S-meter still works, it doesn't just drift up to maximum.

I have done some receiver tweaks to mine by just replacing the dual gate depletion mosfets (circa 1970) with currently available NTE's (454, 222). Makes a big difference in noise floor and sensitivity on 15/10M.

Have fun, you got a real gem.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Aaron
Sent: Thursday, December 17, 2009 3:00 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Got a new Hybrid coming

I guess it would be fine to source some info on this rig here. Anyways I have a TS-900 coming and don't know much about these Kenwoods. Looking maybe for some manuals and soem general input on them. Should be a nice addition to the station and park it next to the 830.

Aaron
KD4GSL

[Non-text portions of this message have been removed]

24014. RE: [TS-520_820_530_830] Heads-up - Kenwood R-820 Receiver

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-17 15:54:07 UTC
From: Greg Anders
Topic: 23981 Message: 24014

I would hold out for a Maseratti,

Greg

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of dennis hatch
Sent: Thursday, December 17, 2009 5:21 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Heads-up - Kenwood R-820 Receiver

I have five R-820 receivers, one like new in the original box. I'll trade all five for a new ROLLS-ROYCE.

--- On Wed, 12/16/09, Jerry Keller <k3bz@...<mailto:k3bz%40arrl.net>> wrote:

From: Jerry Keller <k3bz@...<mailto:k3bz%40arrl.net>>
Subject: Re: [TS-520_820_530_830] Heads-up - Kenwood R-820 Receiver
To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
Date: Wednesday, December 16, 2009, 12:21 PM

Actually, I don't think one can ever pay "more than something is worth" on e-bay.... an auction with a huge bidding audience like that pretty much defines an item's "worth"....I can't imagine a better way to determine "worth". And with such a large audience, I doubt Tom's comments would change the outcome much.

73, Jerry K3BZ

----- Original Message -----
From: "John Cox" <n4mcy@...<mailto:n4mcy%40yahoo.com>>
To: <TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>>
Sent: Wednesday, December 16, 2009 12:07 PM
Subject: Re: [TS-520_820_530_830] Heads-up - Kenwood R-820 Receiver

Thanks for telling the world about the receiver. I was hoping to bid on it and win it without paying twice what it is worth, but I can forget that now.

--- On Wed, 12/16/09, sceneryguru <k3ssb@...<mailto:k3ssb%40verizon.net>> wrote:

From: sceneryguru <k3ssb@...<mailto:k3ssb%40verizon.net>>
Subject: [TS-520_820_530_830] Heads-up - Kenwood R-820 Receiver
To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>
Date: Wednesday, December 16, 2009, 2:51 PM

Good Morning Group:

I came across a very rare animal yesterday, as I was sifting through the listings on Ebay. There is

a Kenwood R-820 Receiver up for sale. If I had the
funds I would certainly snap it up...
unfortunately, considering the time of year, I
just do not.

I mention the listing here because it's pretty
close to the top of my wish list. I'm sure that
I'm not alone. Particularly if you are the proud
owner of a TS820/S transceiver. If you're not
already aware... you can set-up the R-820 to slave
with your TS-820. Man that would sure be sweet.
Well enough said…

http://cgi.ebay. com/Kenwood- R-820-Communicat ions-R
eceiver-CLEAN_ W0QQitemZ2304121 67914QQcmdZViewI temQ
QptZLH_DefaultDomai n_0?hash= item35a5a2aaea& BackToL
istReferer=http% 3A%2F%2Fmy. ebay.com% 2Fws%2FeBayISA
PI.dll%3FMyEbayBeta

73 & Happy Holidays

Tom G, Sr.
K3SSB

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Yahoo! Groups Links

Yahoo! Groups Links

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24015. RE: [TS-520_820_530_830] Got a new Hybrid coming

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-17 15:51:49 UTC
From: Greg Anders
Topic: 24003 Message: 24015

The TS-900s was manufactured for a short time in the early 70's (high-end counterpart to the 520 series).

There were several versions, one with 6LQ6's (TS-900S) one with 6146's and one sold in Europe with a 4CX250 (500W PEP) version.

FYI,

Greg
KG6YV

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Chris and Alex
Sent: Thursday, December 17, 2009 3:50 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Got a new Hybrid coming

Lucky guy Aaron. I've just taken a look at the TS-900 here
http://www.eham.net/reviews/detail/773

<http://www.eham.net/reviews/detail/773>It looks to be a really nice set.
I'd always thought that the TS-830 was the last hybrid made.

Chris SV0XBQ/9

2009/12/17 Aaron <wm.aaron.lamb@gmail.com>

>
>
> I guess it would be fine to source some info on this rig here. Anyways I
> have a TS-900 coming and don't know much about these Kenwoods. Looking maybe
> for some manuals and soem general input on them. Should be a nice addition
> to the station and park it next to the 830.
>
> Aaron
> KD4GSL
>
>
>

[Non-text portions of this message have been removed]

Yahoo! Groups Links

24016. Re: TS-820S Diode Replacement

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-17 16:10:06 UTC
From: brad_kd5zat
Topic: 23985 Message: 24016

Hello Mike,

Thank you for the parts information. I hope to identify the culprit today.

Thanks again,

73
Brad
KD5ZAT

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello Brad,
>
> Mouser Electronics, www.mouser.com sells a 6.2 volt 1/2 watt axial lead zener diode under part number:
>
> 512-1N5234B
> Price: 6 cents
> 16K currently in stock
>
> A possible replacement for Q4, Q5, and Q6 is an NTE-85. Mouser part number:
>
> 526-NTE85
> Price $1.29
> 55 currently in stock
>
> The NTE-85 has the same TO-92 package and same basic electrical specification plus the same lead orientation "E C B"as the original 2SC372.
>
> Another possible replacement for Q4 thru Q6 is the 2N3904. The 2N3904 has the same TO-92 package, same basic electrical specifications, but the lead orientation is slightly different, "E B C" verses "E C B".
>
> For convenience in mounting I would choose the NTE-85 simply because of it's lead orientation, they are the same as the original 2SC372. No fiddling with the leads when installing.
>
> 73s
> Mike W5RKL
>
>
>
> --- In TS-520_820_530_830@...m, "brad" <bjpenn@> wrote:
> >
> > Hello Mike...Thanks so much for the information on the AF AVR board. Also thanks for

the tip on the Q7 source. A friend is going to bring his in-circuit transistor checker over tomorrow. Like you, he and I are both suspicious of Q7.
> >
> > Would you happen to have a good source for the D5 diode (WZ-061) or an equivalent on the AF AVR board?
> >
> > Thanks for your help. I really appreciate it. I am quite new to troubleshooting radios. I need all the help I can get.
> >
> > Thanks again,
> >
> > Brad
> > KD5ZAT
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > >
> > >
> > >
> > > The diode you are talking about in the VFO-820 is a relay collapsing field protection diode. It can be a simple 1N4001 diode. You don't have to buy a special diode. It nothing more than a simple silicon diode connected across the relay coil. Just be sure you install the diode the correct way, the banded end at the right relay coil terminal.
> > >
> > > I suspect Q7 on your 820's AF AVR board is toast. You can find NOS 2SA496Ys at the following website.
> > >
> > > http://www.electronicsurplus.com/ccp78762-to-220-pnp-transistor-2sa496-y-13844.htm
> > >
> > > If you replace Q7 I also recommend replacing D5, 6 volt zener as well.
> > >
> > > A short on the 9VDC buss can easily take out Q7. Remember, the receiver's bias voltage, 3.3VDC and the 9VDC are all created from the 14VDC supply and are controlled on the AF AVR board. When adjusting these voltage, adjust the 9VDC first followed then by the 3.3VDC.
> > >
> > > A blown Q7 regulator on the AF AVR board it's no wonder the 820 has problem in both transmit and receive. Most of the solid state circuitry is powered by the 9VDC supply and the receiver's bias voltage also comes from the 3.3VDC.
> > >
> > > 73s
> > > Mike W5RKL
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "brad" <bjpenn@> wrote:
> > > >
> > > > Good point. I really haven't had a chance to troubleshoot the VFO-820 yet. When I plugged it in the other night and the radio failed, I have been trying to fix the radio since then. I'll do some vfo-820 troubleshooting tonight since I am waiting on the diodes for the rectifier board.
> > > >

> > > > I am now pretty sure I killed D8 and D9 on the rectifier a couple of nights ago while trying to do some measurements on the ac input. I got a little spark and then notice D8 and D9 this morning.
> > > >
> > > > The initial problem is the 9 volt supply at the AF-AVR circuit board(X49-1080-00). Before I killed the diodes on the rectifier board, the problem with the radio seemed to center around the 9 volts on that board. I was reading 6.16v on the collector of Q7 and it should be 9v. I have no 9v adjustment via VR4. I suspect the I have a bad transistor Q4, Q5, Q6 or Q7.
> > > >
> > > > All I do know for sure is that after I plugged in the VFO-820 the other night it was all down hill. The radio won't receive, transmit and the digital display is blank.
> > > >
> > > >
> > > > Brad
> > > > KD5ZAT
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, Andrea Liverani <andrealiverani@> wrote:
> > > > >
> > > > >
> > > > > Oh just what happened to my 820... the previous owner made the same thing .
> > > > > In my case it was also shorted the diode in the external vfo (the only one you can see
> > > > > on the board with relay. So before replacing the rectifier diodes check also that diode.
> > > > > I put an internal fuse to protect the 14v line i suggest you to do the same.
> > > > >
> > > > > To: TS-520_820_530_830@yahoogroups.com
> > > > > From: pmarkavage@
> > > > > Date: Wed, 16 Dec 2009 13:13:38 -0500
> > > > > Subject: Re: [TS-520_820_530_830] Re: TS-820S Diode Replacement
> > > > >
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> > > > >
> > > > > !N4002 ,03, 04, 05, 06 ,07 will all work. Parts Express has 1N4007 for
> > > > >
> > > > > $.09 each. 10 or more $.07 each.
> > > > >
> > > > >
> > > > >
> > > > > Pete, wa2cwa
> > > > >
> > > > >
> > > > >
> > > > > On Wed, 16 Dec 2009 17:37:50 -0000 "n6wk_skcc3" <n6wk@> writes:
> > > > >
> > > > > >
> > > > >
> > > > > > Brad,
> > > > >
> > > > > > NTE-116 or equivalent is perfect for the VO3C diodes
> > > > >
> > > > > > 1N4002 will also work and is very common.
> > > > >
> > > > > >
> > > > >
> > > > > > 73,
> > > > >
> > > > > > Gordon
> > > > >
> > > > > > N6WK
> > > > >
> > > > > >
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> > > > > >
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> > > > > >
> > > > >
> > > > > > --- In TS-520_820_530_830@yahoogroups.com, "brad" <bjpenn@>
> > > > >
> > > > > > wrote:
> > > > >
> > > > > > >
> > > > >

> > > > > > > Hello All,
> > > > > >
> > > > > > > >
> > > > > >
> > > > > > > My first post to this great group. I have, I think, resolved a
> > > > > >
> > > > > > > problem with my TS-820S. The radio quit receiving, transmitting and
> > > > > >
> > > > > > > the digital display went blank on me last week when I plugged in an
> > > > > >
> > > > > > > external VFO-820 that I had purchased on Ebay. Long story short is
> > > > > >
> > > > > > > that I found 2 broken wires in the external VFO cable.
> > > > > >
> > > > > > > > >
> > > > > >
> > > > > > > > Just now I found what I think is now causing the problem with the
> > > > > >
> > > > > > > radio. I found 2 cracked open diodes, D8 and D9, on the
> > > > > >
> > > > > > > (X43-1090-02) rectifier unit. This affects the 14 volt line in the
> > > > > >
> > > > > > > radio. I need to order replacements. The service manual lists D8 and
> > > > > >
> > > > > > > D9 as a VOC3 diode. I am having trouble finding a replacement. Can
> > > > > >
> > > > > > > anyone recommenend where I can purchase the VO3C or an equivalent?
> > > > > >
> > > > > > > > >
> > > > > >
> > > > > > > > Any help would be greatly appreciated,
> > > > > >
> > > > > > > > > >
> > > > > >
> > > > > > > > Brad
> > > > > >
> > > > > > > > KD5ZAT
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> > > > > _____
> > > > > 25 Gigabyte per le tue foto online
> > > > > http://www.windowslive.it/foto.aspx
> > > > >
> > > > > [Non-text portions of this message have been removed]
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24017. Now I did it!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-17 17:20:21 UTC
From: jay_hendershott
Topic: 24017 Message: 24017

Hello group,

I was having trouble with the VFO in my 820S for the last month or so. The display would jump around and portions of the bands would be garbled. When tapping on the VFO the problem would go away or come back. Last weekend I removed the VFO, took off the cover, cleaned and lubricated the shaft etc. I reinstalled the VFO, checked my connections and fired up the old girl. Not good..... I have no receive on any band and the display barely lights up on the left side not showing anything legible. I checked the connections again and all my settings including the jumper on the remote VFO socket with no luck. I will be removing the VFO again tonight but wanted to ask if anyone has seen this before or had some suggestions. Thanks in advance and 73.

JR

24018. Re: Now I did it!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-17 19:54:53 UTC
From: w5rkl
Topic: 24017 Message: 24018

There's a couple of possibilities that may be causing this problem

1. Intermittent/broken wire/component lead connection inside the VFO.

2, Bad/broken connection in the VFO coax cable on the rear of the VFO.

3. Bad or intermittent connection at one of the following board plugs

3A. FIX CH AVR FIX-1
3B. PLL UNIT PLL-1

4. Dirty/corrodioni connections inside the PLL and CAR UNIT

5. If TX and RX work but display is flacky, the connections inside the COUNTER UNIT may be corroded/dirty. The COUNTER UNIT has 2 board, just like the PLL and CAR UNITs do and they are connected together inside the COUNTER UNIT assembly just like the PLL and CAR unit boards are. Clean it the same way you clean the PLL and CAR unit. See below for details.

I would check the VFO cable to ensure it is good. The VFO cable may "appear" good from a visual stand point but the center pin may not be connected to the coax cable's center conductor. The VFO signal is applied to the following points:

1. Pin 1 on the rear 9 pin VFO socket

2. FIX CH AVR UNIT plug, pins 9, 11, and 13

3. PLL UNIT plug PLL-1 pin 2

Check ALL of these connection to ensure the are making good solid connection. If they are then proceed to the following check.

Turn the 820 upside down, front panel facing you.

The AF AVR UNIT is directly below the VFO and closest to the front panel.

Connect your DC volt meter to pin 1 or pin 2 of the AF AVR UNIT plug AF1. The voltage should be 9VDC. If it's not adjust VR4 in the center of the AF AVR UNIT so the voltage is 9VDC.

Move the DC meter's positive lead to AF AVR UNIT plug AF-2 pin 6. The voltage should be 3.3VDC. If it's not, adjust VR1, located between plugs AF1 and AF2 so the voltage is 3.3VDC.

If the problem still exist then remove you should check ALL of the plastic plugs on ALL boards, apply a shot of cleaner then insert each plug a number of times onto the boards. Use canned air to remove any and all excess contact cleaner and check for proper operation.

If the 820 still fails to operate, remove and clean the PLL unit and the CAR unit assemblies. Each assembly has 2 PC board inside that are connected together through a set

of fixed pins. Remove each PC board and clean the pins and the PC board sockets the pins fit into. Reinstall both PLL and CAR unit assemblies, secure them with the mounting screws, install the plugs, and check for proper operation.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "jay_hendershott" <k7gfh@...> wrote:
>
> Hello group,
>
> I was having trouble with the VFO in my 820S for the last month or so. The display would jump around and portions of the bands would be garbled. When tapping on the VFO the problem would go away or come back. Last weekend I removed the VFO, took off the cover, cleaned and lubricated the shaft etc. I reinstalled the VFO, checked my connections and fired up the old girl. Not good..... I have no receive on any band and the display barely lights up on the left side not showing anything legible. I checked the connections again and all my settings including the jumper on the remote VFO socket with no luck. I will be removing the VFO again tonight but wanted to ask if anyone has seen this before or had some suggestions. Thanks in advance and 73.
>
> JR
>

24019. Re: [TS-520_820_530_830] Now I did it!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-17 20:15:02 UTC
From: Dave ve3wej
Topic: 24017 Message: 24019

verify that you did not inadvertantly put a connector back on upside down.
not even sure if it can be done, but check it

----- Original Message -----
From: "jay_hendershott" <k7gfh@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, December 17, 2009 12:20 PM
Subject: [TS-520_820_530_830] Now I did it!

> Hello group,
>
> I was having trouble with the VFO in my 820S for the last month or so.
> The display would jump around and portions of the bands would be garbled.
> When tapping on the VFO the problem would go away or come back. Last
> weekend I removed the VFO, took off the cover, cleaned and lubricated the
> shaft etc. I reinstalled the VFO, checked my connections and fired up the
> old girl. Not good..... I have no receive on any band and the display
> barely lights up on the left side not showing anything legible. I checked
> the connections again and all my settings including the jumper on the
> remote VFO socket with no luck. I will be removing the VFO again tonight
> but wanted to ask if anyone has seen this before or had some suggestions.
> Thanks in advance and 73.
>
> JR
>
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24020. Re: [TS-520_820_530_830] Now I did it!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-17 20:53:31 UTC
From: Dave & Loraine
Topic: 24017 Message: 24020

Sounds like the VFO variable cap wiper.
Remove the top cover, remove the small cover from the VFO can and apply a small amount of DEOXIT to the wiper at the rear of the variable cap.
Run the dial un and down a few times.
73 Dave f4eyk

24021. Re: Now I did it!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-17 22:05:57 UTC
From: w5rkl
Topic: 24017 Message: 24021

There are only 2 cables that plug into the rear of the VFO.

One is the VFO signal coax cable with a male RCA plug on the end and the other is the power and RIT cables.

The power and RIT cables are on one 2 prong plug. The pins on the power and RIT plug are different sizes making impossible to plug it into the VFO incorrectly.

However, rough handing of the cables can cause a break in the cables which can lead to this type of problem. The only way to verify continuity in the cable is to perform continuity checks of each cable from one end to the other. The 820 schematic shows the VFO wire path for both cables. Since the work was done mostly with the VFO, I recommend checking both cables.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@...> wrote:
>
> verify that you did not inadvertantly put a connector back on upside down.
> not even sure if it can be done, but check it
>
> ----- Original Message -----
> From: "jay_hendershott" <k7gfh@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Thursday, December 17, 2009 12:20 PM
> Subject: [TS-520_820_530_830] Now I did it!
>
>
> > Hello group,
> >
> > I was having trouble with the VFO in my 820S for the last month or so.
> > The display would jump around and portions of the bands would be garbled.
> > When tapping on the VFO the problem would go away or come back. Last
> > weekend I removed the VFO, took off the cover, cleaned and lubricated the
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> > old girl. Not good..... I have no receive on any band and the display
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> > remote VFO socket with no luck. I will be removing the VFO again tonight
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> > Thanks in advance and 73.
> >
> > JR
> >
> >

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> > Yahoo! Groups Links
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24022. Re: Got a new Hybrid coming

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-18 01:03:06 UTC
From: David
Topic: 24003 Message: 24022

Aaron.
The TS-900 is a fine radio i owned one back in the 80's. never had a problem with it. Wish i still had one.
Be sure to let us all know what model it is when you get it.
If it's the gold fronted one you are doubly lucky. very very rare.
Dave kg4uxr

--- In TS-520_820_530_830@yahoogroups.com, "Aaron" <wm.aaron.lamb@...> wrote:
>
> I guess it would be fine to source some info on this rig here. Anyways I have a TS-900 coming and don't know much about these Kenwoods. Looking maybe for some manuals and soem general input on them. Should be a nice addition to the station and park it next to the 830.
>
> Aaron
> KD4GSL
>

24023. Re: [TS-520_820_530_830] Heads-up - Kenwood R-820 Receiver

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-16 21:22:51 UTC
From: martin
Topic: 23981 Message: 24023

Hi Andrea. This is not entirely true. Each person must determine how much an item is worth to them. I have seen used items on eBay go for more than the new price of that item (the item still being available from dealers). Its called auction fever. I have also seen item with the minimum bid, or buy-it-now prices set higher than dealers prices for identical items. Then there are the folks that charge inflated shipping charges to squeeze bit more profit on an item.

The best way that I have found to deal with eBay is to determine what I am willing (or can afford!) to pay for an item of interest. I then will not bid more than that amount. If I don't win the item, well an identical or similar item will eventually be up for sale again. I also ask for the shipping charges before bidding.

Savy buyers can find good buys on eBay, but the unwary may end up paying more than they should have to at times.

TTYL

Andrea Liverani wrote:
> I think that the price of ebay are the real value of object you
> cannot say you have payed twice the value. At least you pay just 1
> $ more than the price of the market suggest.
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more at http://www.defectivebydesign.org/what_is_drm"

24024. TS520 parts

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-18 02:22:01 UTC
From: w0szv
Topic: 13975 Message: 24024

I have a TS-520 that I am parting out. Anyone needing parts just let me know what you need and make an offer that will cover a fair price on the part plus shipping. thanks Eldon w0szv

24025. Re: [TS-520_820_530_830] TS520 parts

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-18 03:18:08 UTC
From: jsloss
Topic: 13975 Message: 24025

Is the DC converter and its black cover available.

Joe k7mks@...

[Non-text portions of this message have been removed]

24026. Re: Got a new Hybrid coming

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-18 04:06:42 UTC
From: Aaron
Topic: 24003 Message: 24026

It's a silver face TS-900 no X, D or S. I think this group has turned me slightly obsessive unknowingly hi hi. Does anyone know what the model of the 6 Meter version was? I have seen 1 in my whole life, so I might have to track one down just to finish off the set now.

Aaron

--- In TS-520_820_530_830@yahoogroups.com, "David" <sootydave@...> wrote:
>
> Aaron.
> The TS-900 is a fine radio i owned one back in the 80's. never had a problem with it. Wish i still had one.
> Be sure to let us all know what model it is when you get it.
> If it's the gold fronted one you are doubly lucky. very very rare.
> Dave kg4uxr
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Aaron" <wm.aaron.lamb@> wrote:
> >
> > I guess it would be fine to source some info on this rig here. Anyways I have a TS-900 coming and don't know much about these Kenwoods. Looking maybe for some manuals and soem general input on them. Should be a nice addition to the station and park it next to the 830.
> >
> > Aaron
> > KD4GSL
> >
>

24027. Re: TS-820S Diode Replacement

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-18 06:13:33 UTC
From: brad_kd5zat
Topic: 23985 Message: 24027

Hello Mike,

My friend brought his transistor tester over today. The collector to base leakage was 4ma on Q7 of the AF-AVR board. Not good.

I also check the D5 diode. It didn't measure up either. I get the D5 diode replacement for the AF AVR board tomorrow, but won't get the replacement Q7 until next Tuesday.

Thanks again for your help.

73
Brad
KD5ZAT

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello Brad,
>
> Mouser Electronics, www.mouser.com sells a 6.2 volt 1/2 watt axial lead zener diode under part number:
>
> 512-1N5234B
> Price: 6 cents
> 16K currently in stock
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> A possible replacement for Q4, Q5, and Q6 is an NTE-85. Mouser part number:
>
> 526-NTE85
> Price $1.29
> 55 currently in stock
>
> The NTE-85 has the same TO-92 package and same basic electrical specification plus the same lead orientation "E C B"as the original 2SC372.
>
> Another possible replacement for Q4 thru Q6 is the 2N3904. The 2N3904 has the same TO-92 package, same basic electrical specifications, but the lead orientation is slightly different, "E B C" verses "E C B".
>
> For convenience in mounting I would choose the NTE-85 simply because of it's lead orientation, they are the same as the original 2SC372. No fiddling with the leads when installing.
>
> 73s
> Mike W5RKL
>
>

>
> --- In TS-520_820_530_830@yahoogroups.com, "brad" <bjpenn@> wrote:
> >
> > Hello Mike...Thanks so much for the information on the AF AVR board. Also thanks for the tip on the Q7 source. A friend is going to bring his in-circuit transistor checker over tomorrow. Like you, he and I are both suspicious of Q7.
> >
> > Would you happen to have a good source for the D5 diode (WZ-061) or an equivalent on the AF AVR board?
> >
> > Thanks for your help. I really appreciate it. I am quite new to troubleshooting radios. I need all the help I can get.
> >
> > Thanks again,
> >
> > Brad
> > KD5ZAT
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > >
> > >
> > >
> > > The diode you are talking about in the VFO-820 is a relay collapsing field protection diode. It can be a simple 1N4001 diode. You don't have to buy a special diode. It nothing more than a simple silicon diode connected across the relay coil. Just be sure you install the diode the correct way, the banded end at the right relay coil terminal.
> > >
> > > I suspect Q7 on your 820's AF AVR board is toast. You can find NOS 2SA496Ys at the following website.
> > >
> > > http://www.electronicsurplus.com/ccp78762-to-220-pnp-transistor-2sa496-y-13844.htm
> > >
> > > If you replace Q7 I also recommend replacing D5, 6 volt zener as well.
> > >
> > > A short on the 9VDC buss can easily take out Q7. Remember, the receiver's bias voltage, 3.3VDC and the 9VDC are all created from the 14VDC supply and are controlled on the AF AVR board. When adjusting these voltage, adjust the 9VDC first followed then by the 3.3VDC.
> > >
> > > A blown Q7 regulator on the AF AVR board it's no wonder the 820 has problem in both transmit and receive. Most of the solid state circuitry is powered by the 9VDC supply and the receiver's bias voltage also comes from the 3.3VDC.
> > >
> > > 73s
> > > Mike W5RKL
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "brad" <bjpenn@> wrote:
> > > >

> > > > Good point. I really haven't had a chance to troubleshoot the VFO-820 yet. When I plugged it in the other night and the radio failed, I have been trying to fix the radio since then. I'll do some vfo-820 troubleshooting tonight since I am waiting on the diodes for the rectifier board.
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> > > >
> > > > All I do know for sure is that after I plugged in the VFO-820 the other night it was all down hill. The radio won't receive, transmit and the digital display is blank.
> > > >
> > > >
> > > > Brad
> > > > KD5ZAT
> > > >
> > > > --- In TS-520_820_530_830@...m, Andrea Liverani <andrealiverani@> wrote:
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> > > > >
> > > > > Oh just what happened to my 820... the previous owner made the same thing .
> > > > > In my case it was also shorted the diode in the external vfo (the only one you can see
> > > > > on the board with relay. So before replacing the rectifier diodes check also that diode.
> > > > > I put an internal fuse to protect the 14v line i suggest you to do the same.
> > > > >
> > > > > To: TS-520_820_530_830@yahoogroups.com
> > > > > From: pmarkavage@
> > > > > Date: Wed, 16 Dec 2009 13:13:38 -0500
> > > > > Subject: Re: [TS-520_820_530_830] Re: TS-820S Diode Replacement
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> > > > > !N4002 ,03, 04, 05, 06 ,07 will all work. Parts Express has 1N4007 for
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> > > > > $.09 each. 10 or more $.07 each.
> > > > >
> > > > >
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> > > > > Pete, wa2cwa
> > > > >
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> > > > > On Wed, 16 Dec 2009 17:37:50 -0000 "n6wk_skcc3" <n6wk@> writes:
> > > > >
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> > > > >
> > > > > > Brad,
> > > > >
> > > > > > NTE-116 or equivalent is perfect for the VO3C diodes
> > > > >
> > > > > > 1N4002 will also work and is very common.
> > > > >
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> > > > > > 73,
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> > > > > > Gordon
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> > > > > > --- In TS-520_820_530_830@yahoogroups.com, "brad" <bjpenn@>
> > > > >

> > > > > > wrote:
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> > > > > > > >
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> > > > > > > > Hello All,
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> > > > > >
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> > > > > >
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> > > > > > > > external VFO-820 that I had purchased on Ebay. Long story short is
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> > > > > > > > that I found 2 broken wires in the external VFO cable.
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> > > > > > > > radio. I found 2 cracked open diodes, D8 and D9, on the
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> > > > > > > > (X43-1090-02) rectifier unit. This affects the 14 volt line in the
> > > > > >
> > > > > > > > radio. I need to order replacements. The service manual lists D8 and
> > > > > >
> > > > > > > > D9 as a VOC3 diode. I am having trouble finding a replacement. Can
> > > > > >
> > > > > > > > anyone recommenend where I can purchase the VO3C or an equivalent?
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> > > > > > > > Any help would be greatly appreciated,
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> > > > > > > > Brad
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> > > > > > > > KD5ZAT
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> > > > > > [Non-text portions of this message have been removed]
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24028. Re: TS-820S Diode Replacement

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-18 11:33:23 UTC
From: w5rkl
Topic: 23985 Message: 24028

Brad,

It does sound like Q7 is bad. I replaced D5 and Q7 on my 820's AF AVR board simply because the drift was too much. I may also replace Q4 thru Q6 with NTE-85 transistors but, for now, replacing D5 and Q7 was sufficient.

Once you remove Q7 from the AF AVR board, remove the screw that hold Q7 to the heat sink. Apply some silicon grease to the new Q7 then secure the transistor to the heat sink using the same screw and nut. The most time it took me was getting the original Q7 off of the board. Kenwood bent the leads flat against the board then soldered them. Found the same bent leads with the two 2200ufd 25VDC filter capacitors in the 14VDC supply.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "brad_kd5zat" <bjpenn@...> wrote:
>
> Hello Mike,
>
> My friend brought his transistor tester over today. The collector to base leakage was 4ma on Q7 of the AF-AVR board. Not good.
>
> I also check the D5 diode. It didn't measure up either. I get the D5 diode replacement for the AF AVR board tomorrow, but won't get the replacement Q7 until next Tuesday.
>
> Thanks again for your help.
>
> 73
> Brad
> KD5ZAT
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Hello Brad,
> >
> > Mouser Electronics, www.mouser.com sells a 6.2 volt 1/2 watt axial lead zener diode under part number:
> >
> > 512-1N5234B
> > Price: 6 cents
> > 16K currently in stock
> >
> > A possible replacement for Q4, Q5, and Q6 is an NTE-85. Mouser part number:
> >
> > 526-NTE85
> > Price $1.29

> > 55 currently in stock
> >
> > The NTE-85 has the same TO-92 package and same basic electrical specification plus the same lead orientation "E C B"as the original 2SC372.
> >
> > Another possible replacement for Q4 thru Q6 is the 2N3904. The 2N3904 has the same TO-92 package, same basic electrical specifications, but the lead orientation is slightly different, "E B C" verses "E C B".
> >
> > For convenience in mounting I would choose the NTE-85 simply because of it's lead orientation, they are the same as the original 2SC372. No fiddling with the leads when installing.
> >
> > 73s
> > Mike W5RKL
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "brad" <bjpenn@> wrote:
> > >
> > > Hello Mike...Thanks so much for the information on the AF AVR board. Also thanks for the tip on the Q7 source. A friend is going to bring his in-circuit transistor checker over tomorrow. Like you, he and I are both suspicious of Q7.
> > >
> > > Would you happen to have a good source for the D5 diode (WZ-061) or an equivalent on the AF AVR board?
> > >
> > > Thanks for your help. I really appreciate it. I am quite new to troubleshooting radios. I need all the help I can get.
> > >
> > > Thanks again,
> > >
> > > Brad
> > > KD5ZAT
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > > >
> > > >
> > > >
> > > > The diode you are talking about in the VFO-820 is a relay collapsing field protection diode. It can be a simple 1N4001 diode. You don't have to buy a special diode. It nothing more than a simple silicon diode connected across the relay coil. Just be sure you install the diode the correct way, the banded end at the right relay coil terminal.
> > > >
> > > > I suspect Q7 on your 820's AF AVR board is toast. You can find NOS 2SA496Ys at the following website.
> > > >
> > > > http://www.electronicsurplus.com/ccp78762-to-220-pnp-transistor-2sa496-y-13844.htm
> > > >
> > > > If you replace Q7 I also recommend replacing D5, 6 volt zener as well.

> > > >
> > > > A short on the 9VDC buss can easily take out Q7. Remember, the receiver's bias voltage, 3.3VDC and the 9VDC are all created from the 14VDC supply and are controlled on the AF AVR board. When adjusting these voltage, adjust the 9VDC first followed then by the 3.3VDC.
> > > >
> > > > A blown Q7 regulator on the AF AVR board it's no wonder the 820 has problem in both transmit and receive. Most of the solid state circuitry is powered by the 9VDC supply and the receiver's bias voltage also comes from the 3.3VDC.
> > > >
> > > > 73s
> > > > Mike W5RKL
> > > >
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> > > > --- In TS-520_820_530_830@yahoogroups.com, "brad" <bjpenn@> wrote:
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> > > > > > To: TS-520_820_530_830@yahoogroups.com
> > > > > > From: pmarkavage@
> > > > > > Date: Wed, 16 Dec 2009 13:13:38 -0500
> > > > > > Subject: Re: [TS-520_820_530_830] Re: TS-820S Diode Replacement
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> > > > > > > > > KD5ZAT
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24029. Ebay prices

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-18 17:28:27 UTC
From: rkersey tds.net
Topic: 24029 Message: 24029

Hi All,

I agree that ebay prices are sometimes bid up too high. I recently bought a radio item for $110 from a ham privately who responded to an inquiry of mine. Two of the same went on ebay for $76 some weeks before, but then one was bid up to $156 the week I bought. Off ebay the going rate for the item appeared to be about $100. Some sellers do not want to fool with ebay and they may just set a price, which might be higher or lower than market value. You can look for the deals if you are patient and will walk from a deal that isn't good. I guess you all know this . . . .

You can sometimes get an idea of what the ebay price should be. If you are registered with ebay, go to the left margin and check "Completed Items" and the recent history of sales of that item will come up. Prices in green indicate completed sales and prices in red indicate items that did not sell because opening bid or reserve was not met or there were no bids. My apologies for taking bandwidth to state what many of you know already, but possibly some don't.

I have been making deals in pawn shops for years and I know that I am not going to be able to negotiate a good price when I feel I just must have something. The guy can smell it, I think. On the other hand, when I really don't care and turn to walk away, amazing things sometimes happen, like the oxy-acetylene torch and tanks that I bought for $75 before the Chinese were making them . . . .

73
Roy Kersey
KI4HAG

[Non-text portions of this message have been removed]

24030. TS 830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-18 21:19:24 UTC
From: fire1_47348
Topic: 23875 Message: 24030

Wonder if any one has a good used RF unit for sale. Need band switch as mine has failed.

Gene WB9HLA

wb9hla@...

24031. Re: Got a new Hybrid coming

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-19 04:48:44 UTC
From: CharlesR
Topic: 24003 Message: 24031

My mistake it is listed under accessories "TS-900 VFO

Charlie

--- In TS-520_820_530_830@yahoogroups.com, "Aaron" <wm.aaron.lamb@...> wrote:
>
> It's a silver face TS-900 no X, D or S. I think this group has turned me slightly obsessive unknowingly hi hi. Does anyone know what the model of the 6 Meter version was? I have seen 1 in my whole life, so I might have to track one down just to finish off the set now.
>
> Aaron
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "David" <sootydave@> wrote:
> >
> > Aaron.
> > The TS-900 is a fine radio i owned one back in the 80's. never had a problem with it. Wish i still had one.
> > Be sure to let us all know what model it is when you get it.
> > If it's the gold fronted one you are doubly lucky. very very rare.
> > Dave kg4uxr
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Aaron" <wm.aaron.lamb@> wrote:
> > >
> > > I guess it would be fine to source some info on this rig here. Anyways I have a TS-900 coming and don't know much about these Kenwoods. Looking maybe for some manuals and soem general input on them. Should be a nice addition to the station and park it next to the 830.
> > >
> > > Aaron
> > > KD4GSL
> > >
> > >
>

24032. Re: Got a new Hybrid coming

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-19 04:44:11 UTC
From: CharlesR
Topic: 24003 Message: 24032

Ran across a VFO-900 at LandAirCom by dxzone.com.

No prices but listed in used equipment

Charlie

--- In TS-520_820_530_830@yahoogroups.com, "Aaron" <wm.aaron.lamb@...> wrote:
>
> It's a silver face TS-900 no X, D or S. I think this group has turned me slightly obsessive unknowingly hi hi. Does anyone know what the model of the 6 Meter version was? I have seen 1 in my whole life, so I might have to track one down just to finish off the set now.
>
> Aaron
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "David" <sootydave@> wrote:
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> > If it's the gold fronted one you are doubly lucky. very very rare.
> > Dave kg4uxr
> >
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> > > I guess it would be fine to source some info on this rig here. Anyways I have a TS-900 coming and don't know much about these Kenwoods. Looking maybe for some manuals and soem general input on them. Should be a nice addition to the station and park it next to the 830.
> > >
> > > Aaron
> > > KD4GSL
> > >
> >
>

24033. now i did it

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-19 17:21:47 UTC
From: k8mcn
Topic: 24033 Message: 24033

yesterday, decided to move all the rigs from operating position and dust/clean under them---moved the 520s back and flipped on the power switch and left the room.(second mistake)
after 10 minutes, i came back in and noticed i had bumped the send switch into the "send " position while moving.(first mistake)...the rig had been in the send position on lsb all this time.

Now i can only get about 120 ma of plate current and have stopped at this point for fear of hurting something else......your troubleshooting tips will be greatly appreciated as i love this old rig!

Thanks in advance,
73
Kelly
K8MCN

24034. now i did it

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-19 17:24:45 UTC
From: k8mcn
Topic: 24034 Message: 24034

yesterday, decided to move all the rigs from operating position and dust/clean under them---moved the 520s back and flipped on the power switch and left the room.(second mistake)
after 10 minutes, i came back in and noticed i had bumped the send switch into the "send " position while moving.(first mistake)...the rig had been in the send position on lsb all this time.

Now i can only get about 120 ma of plate current and have stopped at this point for fear of hurting something else......your troubleshooting tips will be greatly appreciated as i love this old rig!

Thanks in advance,
73
Kelly
K8MCN

24035. Re: Ebay prices

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-19 17:32:57 UTC
From: g7aqk
Topic: 24029 Message: 24035

I purchased my TS820s complete with MC60A microphone from Ebay and think I got a pretty good deal. I paid £135(about $200)although I must admit that I have seen others go for far more.

I think the trick for getting a good deal on Ebay is to look for auctions that end during the day mid-week. The best way to get a good price for the stuff you are selling is to have your auction end on a Sunday night. That way the bidders have all weekend to browse and place their bids.

Neil
G7AQK

24036. Re: [TS-520_820_530_830] now i did it

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-19 17:44:26 UTC
From: John Davidson
Topic: 24034 Message: 24036

In LSB mode, all the finals would be drawing (Ip) would be the 60 milliAmp idle current and the RF output would have been just about Zero watts. Can't see what harm that would have done !

--- On Sat, 12/19/09, k8mcn <k8mcn@...> wrote:

From: k8mcn <k8mcn@...>
Subject: [TS-520_820_530_830] now i did it
To: TS-520_820_530_830@yahoogroups.com
Date: Saturday, December 19, 2009, 12:24 PM

yesterday, decided to move all the rigs from operating position and dust/clean under them---moved the 520s back and flipped on the power switch and left the room.(second mistake)
after 10 minutes, i came back in and noticed i had bumped the send switch into the "send " position while moving.(first mistake)...the rig had been in the send position on lsb all this time.

Now i can only get about 120 ma of plate current and have stopped at this point for fear of hurting something else.....your troubleshooting tips will be greatly appreciated as i love this old rig!

Thanks in advance,
73
Kelly
K8MCN

[Non-text portions of this message have been removed]

24037. Re: [TS-520_820_530_830] now i did it

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-19 18:19:32 UTC
From: Dave ve3wej
Topic: 24034 Message: 24037

i agree, as long as there was no audio driving the finals, the 120 sound high, but was it that way before you moved it. follow the manual. the worst that should happen is there is no output to the antenna. you may be surprised

good luck

Dave Garber
VE3WEJ
----- Original Message -----
From: "John Davidson" <k8jd@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, December 19, 2009 12:44 PM
Subject: Re: [TS-520_820_530_830] now i did it

In LSB mode, all the finals would be drawing (Ip) would be the 60 milliAmp idle current and the RF output would have been just about Zero watts. Can't see what harm that would have done !

--- On Sat, 12/19/09, k8mcn <k8mcn@...> wrote:

From: k8mcn <k8mcn@...>
Subject: [TS-520_820_530_830] now i did it
To: TS-520_820_530_830@yahoogroups.com
Date: Saturday, December 19, 2009, 12:24 PM

yesterday, decided to move all the rigs from operating position and dust/clean under them---moved the 520s back and flipped on the power switch and left the room.(second mistake)
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Now i can only get about 120 ma of plate current and have stopped at this point for fear of hurting something else.....your troubleshooting tips will be greatly appreciated as i love this old rig!

Thanks in advance,
73
Kelly
K8MCN

[Non-text portions of this message have been removed]

Yahoo! Groups Links

24038. Re: [TS-520_820_530_830] now i did it

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-19 19:02:04 UTC
From: Kelly McNutt
Topic: 24034 Message: 24038

Thanks guys--guess i was just paranoid-thought i had hurt my
baby---tuned it up and works as good as it did before-
-sorry to bother you all but didn't want to make things worse. before
checking with the experts!

Dave ve3wej wrote:
>
>
> i agree, as long as there was no audio driving the finals, the 120 sound
> high, but was it that way before you moved it. follow the manual. the
> worst that should happen is there is no output to the antenna. you may be
> surprised
>
> good luck
>
> Dave Garber
> VE3WEJ
> ----- Original Message -----
> From: "John Davidson" <k8jd@... <mailto:k8jd%40yahoo.com>>
> To: <TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>>
> Sent: Saturday, December 19, 2009 12:44 PM
> Subject: Re: [TS-520_820_530_830] now i did it
>
> In LSB mode, all the finals would be drawing (Ip) would be the 60
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> idle current and the RF output would have been just about Zero watts.
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> see what harm that would have done !
>
> --- On Sat, 12/19/09, k8mcn <k8mcn@... <mailto:k8mcn%40arrl.net>>
> wrote:
>
> From: k8mcn <k8mcn@... <mailto:k8mcn%40arrl.net>>
> Subject: [TS-520_820_530_830] now i did it
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Date: Saturday, December 19, 2009, 12:24 PM
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> the send position on lsb all this time.
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> Now i can only get about 120 ma of plate current and have stopped at this
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> Thanks in advance,
> 73
> Kelly
> K8MCN
>
> [Non-text portions of this message have been removed]
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>

[Non-text portions of this message have been removed]

24039. Re: [TS-520_820_530_830] now i did it

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-19 20:39:43 UTC
From: Big Mike
Topic: 24034 Message: 24039

I've got an 820 that a fellow did the same thing to. It burned the cathode resistors. Check them!

73,

Mike-K5VSE
Formerly WB6VSE, Senior Tech. Amateur Div
SBE, Watsonville, CA Retired Fire Chief
USS Point Defiance LSD 31, USS Okanogan APA 220
http://sjsharks.tripod.com/index.html
All email scanned with Norton 2010
In God We Trust
"SUPPORT OUR TROOPS"
Viet Nam Vet

[Non-text portions of this message have been removed]

24040. Re: Now I did it!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-20 01:52:55 UTC
From: jay_hendershott
Topic: 24017 Message: 24040

Hello Group,

Wow thank you for the detailed troubleshooting from all. As quoted below I was able to check continuity of the power/RIT cable and the coax cable which plug into the VFO. I was able to check voltages on the AF board. I recorded 3.345 volts and 8.99 volts. I also removed the CAR board and PLL board, checked, cleaned and reinstalled with no luck. The unit still only has very minimal static when in receive and will not load or tune when adjusting the drive control. The unit does switch into TX mode when the send/receive switch is activated. Is there any tests to the VFO itself I can perform? I suspect an issue with this due to the fact that it is the only piece I have removed and cleaned. I see no issues in the rest of the radio that are obvious. I noticed a circuit board mounted to the VFO. Could a resistor or capacitor on this board be causing an issue? I thoght I would go through and check as many as possible. I am also going to verify power to the VFO. The strange issue is the lack of illumination on the readout. Only the first two digits show any illumination at all and that is very minor. No sign of a formed number just a faint illumination of the two. Thanks again.

73

JR

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> There's a couple of possibilities that may be causing this problem
>
> 1. Intermittent/broken wire/component lead connection inside the VFO.
>
> 2, Bad/broken connection in the VFO coax cable on the rear of the VFO.
>
> 3. Bad or intermittent connection at one of the following board plugs
>
> 3A. FIX CH AVR FIX-1
> 3B. PLL UNIT PLL-1
>
> 4. Dirty/corrodioni connections inside the PLL and CAR UNIT
>
> 5. If TX and RX work but display is flacky, the connections inside the COUNTER UNIT may be corroded/dirty. The COUNTER UNIT has 2 board, just like the PLL and CAR UNITs do and they are connected together inside the COUNTER UNIT assembly just like the PLL and CAR unit boards are. Clean it the same way you clean the PLL and CAR unit. See below for details.
>
> I would check the VFO cable to ensure it is good. The VFO cable may "appear" good from a visual stand point but the center pin may not be connected to the coax cable's center conductor. The VFO signal is applied to the following points:
>
> 1. Pin 1 on the rear 9 pin VFO socket

>
> 2. FIX CH AVR UNIT plug, pins 9, 11, and 13
>
> 3. PLL UNIT plug PLL-1 pin 2
>
> Check ALL of these connection to ensure the are making good solid connection. If they are then proceed to the following check.
>
> Turn the 820 upside down, front panel facing you.
>
> The AF AVR UNIT is directly below the VFO and closest to the front panel.
>
> Connect your DC volt meter to pin 1 or pin 2 of the AF AVR UNIT plug AF1. The voltage should be 9VDC. If it's not adjust VR4 in the center of the AF AVR UNIT so the voltage is 9VDC.
>
> Move the DC meter's positive lead to AF AVR UNIT plug AF-2 pin 6. The voltage should be 3.3VDC. If it's not, adjust VR1, located between plugs AF1 and AF2 so the voltage is 3.3VDC.
>
> If the problem still exist then remove you should check ALL of the plastic plugs on ALL boards, apply a shot of cleaner then insert each plug a number of times onto the boards. Use canned air to remove any and all excess contact cleaner and check for proper operation.
>
> If the 820 still fails to operate, remove and clean the PLL unit and the CAR unit assemblies. Each assembly has 2 PC board inside that are connected together through a set of fixed pins. Remove each PC board and clean the pins and the PC board sockets the pins fit into. Reinstall both PLL and CAR unit assemblies, secure them with the mounting screws, install the plugs, and check for proper operation.
>
> 73s
> Mike W5RKL
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "jay_hendershott" <k7gfh@> wrote:
> >
> > Hello group,
> >
> > I was having trouble with the VFO in my 820S for the last month or so. The display would jump around and portions of the bands would be garbled. When tapping on the VFO the problem would go away or come back. Last weekend I removed the VFO, took off the cover, cleaned and lubricated the shaft etc. I reinstalled the VFO, checked my connections and fired up the old girl. Not good..... I have no receive on any band and the display barely lights up on the left side not showing anything legible. I checked the connections again and all my settings including the jumper on the remote VFO socket with no luck. I will be removing the VFO again tonight but wanted to ask if anyone has seen this before or had some suggestions. Thanks in advance and 73.
> >

> > JR
> >
>

24041. Re: Now I did it!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-20 02:11:36 UTC
From: jay_hendershott
Topic: 24017 Message: 24041

FYI also I cannot hear the marker tone when adjusting the VFO.

JR

--- In TS-520_820_530_830@yahoogroups.com, "jay_hendershott" <k7gfh@...> wrote:
>
> Hello Group,
>
> Wow thank you for the detailed troubleshooting from all. As quoted below I was able to check continuity of the power/RIT cable and the coax cable which plug into the VFO. I was able to check voltages on the AF board. I recorded 3.345 volts and 8.99 volts. I also removed the CAR board and PLL board, checked, cleaned and reinstalled with no luck. The unit still only has very minimal static when in receive and will not load or tune when adjusting the drive control. The unit does switch into TX mode when the send/receive switch is activated. Is there any tests to the VFO itself I can perform? I suspect an issue with this due to the fact that it is the only piece I have removed and cleaned. I see no issues in the rest of the radio that are obvious. I noticed a circuit board mounted to the VFO. Could a resistor or capacitor on this board be causing an issue? I thoght I would go through and check as many as possible. I am also going to verify power to the VFO. The strange issue is the lack of illumination on the readout. Only the first two digits show any illumination at all and that is very minor. No sign of a formed number just a faint illumination of the two. Thanks again.
>
> 73
>
> JR
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > There's a couple of possibilities that may be causing this problem
> >
> > 1. Intermittent/broken wire/component lead connection inside the VFO.
> >
> > 2, Bad/broken connection in the VFO coax cable on the rear of the VFO.
> >
> > 3. Bad or intermittent connection at one of the following board plugs
> >
> > 3A. FIX CH AVR FIX-1
> > 3B. PLL UNIT PLL-1
> >
> > 4. Dirty/corrodioni connections inside the PLL and CAR UNIT
> >
> > 5. If TX and RX work but display is flacky, the connections inside the COUNTER UNIT may be corroded/dirty. The COUNTER UNIT has 2 board, just like the PLL and CAR UNITs do and they are connected together inside the COUNTER UNIT assembly just like the PLL and CAR unit

boards are. Clean it the same way you clean the PLL and CAR unit. See below for details.
> >
> > I would check the VFO cable to ensure it is good. The VFO cable may "appear" good from a visual stand point but the center pin may not be connected to the coax cable's center conductor. The VFO signal is applied to the following points:
> >
> > 1. Pin 1 on the rear 9 pin VFO socket
> >
> > 2. FIX CH AVR UNIT plug, pins 9, 11, and 13
> >
> > 3. PLL UNIT plug PLL-1 pin 2
> >
> > Check ALL of these connection to ensure the are making good solid connection. If they are then proceed to the following check.
> >
> > Turn the 820 upside down, front panel facing you.
> >
> > The AF AVR UNIT is directly below the VFO and closest to the front panel.
> >
> > Connect your DC volt meter to pin 1 or pin 2 of the AF AVR UNIT plug AF1. The voltage should be 9VDC. If it's not adjust VR4 in the center of the AF AVR UNIT so the voltage is 9VDC.
> >
> > Move the DC meter's positive lead to AF AVR UNIT plug AF-2 pin 6. The voltage should be 3.3VDC. If it's not, adjust VR1, located between plugs AF1 and AF2 so the voltage is 3.3VDC.
> >
> > If the problem still exist then remove you should check ALL of the plastic plugs on ALL boards, apply a shot of cleaner then insert each plug a number of times onto the boards. Use canned air to remove any and all excess contact cleaner and check for proper operation.
> >
> > If the 820 still fails to operate, remove and clean the PLL unit and the CAR unit assemblies. Each assembly has 2 PC board inside that are connected together through a set of fixed pins. Remove each PC board and clean the pins and the PC board sockets the pins fit into. Reinstall both PLL and CAR unit assemblies, secure them with the mounting screws, install the plugs, and check for proper operation.
> >
> > 73s
> > Mike W5RKL
> >
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "jay_hendershott" <k7gfh@> wrote:
> > >
> > > Hello group,
> > >
> > > I was having trouble with the VFO in my 820S for the last month or so. The display would jump around and portions of the bands would be garbled. When tapping on the VFO the problem would go away or come back. Last weekend I removed the VFO, took off the cover, cleaned and lubricated the shaft etc. I reinstalled the VFO, checked my connections and

fired up the old girl. Not good..... I have no receive on any band and the display barely lights up on the left side not showing anything legible. I checked the connections again and all my settings including the jumper on the remote VFO socket with no luck. I will be removing the VFO again tonight but wanted to ask if anyone has seen this before or had some suggestions. Thanks in advance and 73.
> > >
> > > JR
> > >
> >
>

24042. Re: [TS-520_820_530_830] now i did it

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-20 07:32:44 UTC
From: Chris and Alex
Topic: 24033 Message: 24042

Hi Kelly,

Join the club. I did this a month or so ago. If you've damaged the finals you'll be able to smell it without taking the covers off. If you can't smell any burning it might be good to double check that you're operating the set correctly before going further. If you want to take a look, after the power has been off for a while and it's unplugged from the wall socket, remove the top and bottom covers and the cover on the finals cage where the tubes are. The plate choke sits between and just to the inside of the set from the tubes. It should look like new. Before touching anything I always like to ground various components in this area before touching. You'll also need to check the 4x 20ohm cathode resistors that live next to the tube sockets. You'll easily see if they are damaged.

Chris

2009/12/19 k8mcn <k8mcn@...>

>
>
> yesterday, decided to move all the rigs from operating position and
> dust/clean under them---moved the 520s back and flipped on the power switch
> and left the room.(second mistake)
> after 10 minutes, i came back in and noticed i had bumped the send switch
> into the "send " position while moving.(first mistake)...the rig had been in
> the send position on lsb all this time.
>
> Now i can only get about 120 ma of plate current and have stopped at this
> point for fear of hurting something else......your troubleshooting tips will
> be greatly appreciated as i love this old rig!
>
> Thanks in advance,
> 73
> Kelly
> K8MCN
>
>
>

[Non-text portions of this message have been removed]

24043. Re: Now I did it!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-20 13:36:09 UTC
From: w5rkl
Topic: 24017 Message: 24043

Jey,

First, the 820's VFO operates on a set range of frequencies between 5.000Mhz and 5.500Mhz regardless of the MODE and BAND SWITCH settings!

The VFO is powered from the 9VDC source. The 9VDC flows from the AF AVR UNIT board, plug AF1 pin 1 and 2, through the FUNCTION switch wafer S5-3, through the rear 9 pin VFO socket pin 8 to pin 9, and then to the internal VFO through the larger of the 2 pins on the VFO power plug.

If there is a break in the path, such as the jumper plug is removed, the VFO will have no DC power resulting in the VFO not working. If the VFO doesn't work then neither transmit or receive will work. In addition, the digital display will not display any frequency regardless of the MODE, BAND, VFO dial, and DH switch positions/settings! So, it's important that the VFO be working.

Another area that can affect the power to the VFO is the FUNCTION switch wafer S5-3. If the FUNCTION switch is set to the wrong position, there will be no DC voltage to power the VFO. For simplicity sake, make sure the FUNCTION switch is set to "VFO" (12 o'clock). Forget about the other settings for now, you can learn about them later.

You can check the VFO frequency by connecting a frequency counter to the rear of the VFO at the female RCA socket. As indicated above, the VFO should produce a frequency from 5.000Mhz (top of the band) to 5.500Mhz (bottom of the band). Again, it doesn't matter what position the BAND and MODE switches are set to, the VFO frequency range never changes, it's always from 5.000Mhz to 5.500Mhz, regardless of the MODE and BAND switch settings!

If you do not have a frequency counter, connect a wire to an all band receiver's antenna. Wrap the other end with tape to ensure the wire doesn't touch anything in the 820 and lay the wire across the VFO metal enclosure. Tune the 820's VFO so the analog dial displays "0.0". Tune the separate receiver to 5.500Mhz. If the VFO is working you should hear the VFO signal quite strong. You may have to tune the separate receiver above or below 5.500Mhz. If you do NOT hear the VFO signal then the 820 VFO is most likely not working.

You said you removed the 820's VFO and cleaned it thoroughly. If the above test using a separate receiver, shows no VFO signal then you may have broken a component or wire lead inside the VFO. This, also, is assuming there is 9VDC being applied to the rear VFO power pin (larger of the 2 pins on the VFO power plug).

Make sure the RIT push button is turned OFF, not pressed, and the IF shift is centered, FUNCTION switch is set to "VFO" (12 o'clock).

The rear "SG" switch has nothing to do with this problem nor does the heater switch. The SG switch only controls the polarity of the voltage applied to the final tube screens and the Heater switch controls the driver and final tube filament voltage.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "jay_hendershott" <k7gfh@...> wrote:
>
> Hello Group,
>
> Wow thank you for the detailed troubleshooting from all. As quoted below I was able to check continuity of the power/RIT cable and the coax cable which plug into the VFO. I was able to check voltages on the AF board. I recorded 3.345 volts and 8.99 volts. I also removed the CAR board and PLL board, checked, cleaned and reinstalled with no luck. The unit still only has very minimal static when in receive and will not load or tune when adjusting the drive control. The unit does switch into TX mode when the send/receive switch is activated. Is there any tests to the VFO itself I can perform? I suspect an issue with this due to the fact that it is the only piece I have removed and cleaned. I see no issues in the rest of the radio that are obvious. I noticed a circuit board mounted to the VFO. Could a resistor or capacitor on this board be causing an issue? I thoght I would go through and check as many as possible. I am also going to verify power to the VFO. The strange issue is the lack of illumination on the readout. Only the first two digits show any illumination at all and that is very minor. No sign of a formed number just a faint illumination of the two. Thanks again.
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> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
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> > 73s
> > Mike W5RKL
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> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "jay_hendershott" <k7gfh@> wrote:
> > >
> > > Hello group,
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> > >

> > > JR
> > >
> >
>

24044. Re: Now I did it!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-20 13:38:49 UTC
From: w5rkl
Topic: 24017 Message: 24044

You won't hear the Marker signal if the receiver's now working.

Since both transmit and receive are affected, the problem is associated with one of the 3 common circuits, PLL, VFO, and CAR UNITs and quite possibly power to all 3. I discussed this in a previous response. So, start doing some voltage checks.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "jay_hendershott" <k7gfh@...> wrote:
>
>
> FYI also I cannot hear the marker tone when adjusting the VFO.
>
> JR
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "jay_hendershott" <k7gfh@> wrote:
> >
> > Hello Group,
> >
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> > JR
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > >
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> > > 1. Intermittent/broken wire/component lead connection inside the VFO.

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> > > 2, Bad/broken connection in the VFO coax cable on the rear of the VFO.
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> > > 3A. FIX CH AVR FIX-1
> > > 3B. PLL UNIT PLL-1
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> > > If the 820 still fails to operate, remove and clean the PLL unit and the CAR unit assemblies. Each assembly has 2 PC board inside that are connected together through a set of fixed pins. Remove each PC board and clean the pins and the PC board sockets the pins fit into. Reinstall both PLL and CAR unit assemblies, secure them with the mounting screws, install the plugs, and check for proper operation.

> > >
> > > 73s
> > > Mike W5RKL
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> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "jay_hendershott" <k7gfh@> wrote:
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> > > >
> > > > JR
> > > >
> > >
> >
>

24046. Re: UNSUBSCRIBE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-20 13:51:35 UTC
From: w5rkl
Topic: 23392 Message: 24046

George,

If you are trying to unsubscribe to this group, you do that by clicking on "Edit Membership" link then click on "Leave the Group".

Why are you unsubscribing?

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, George Campbell <campbellgc@...> wrote:
>
>
> UNSUBSCRIBE
> --- On Sun, 12/20/09, w5rkl <w5rkl@...> wrote:
>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: Now I did it!
> To: TS-520_820_530_830@yahoogroups.com
> Date: Sunday, December 20, 2009, 8:38 AM
>
>
> Â
>
>
>
> You won't hear the Marker signal if the receiver's now working.
>
> Since both transmit and receive are affected, the problem is associated with one of the 3 common circuits, PLL, VFO, and CAR UNITs and quite possibly power to all 3. I discussed this in a previous response. So, start doing some voltage checks.
>
> 73s
> Mike W5RKL
>
> --- In TS-520_820_530_ 830@yahoogroups. com, "jay_hendershott" <k7gfh@> wrote:
> >
> >
> > FYI also I cannot hear the marker tone when adjusting the VFO.
> >
> > JR
> >
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> > >
> > > Hello Group,
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> VFO. The strange issue is the lack of illumination on the readout. Only the first two digits show any illumination at all and that is very minor. No sign of a formed number just a faint illumination of the two. Thanks again.
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> > > > > JR
> > > > >

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> [Non-text portions of this message have been removed]
>

24047. Re: [TS-520_820_530_830] UNSUBSCRIBE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-20 15:39:35 UTC
From: Joe
Topic: 23392 Message: 24047

George...as it says at the bottom of each post or digest:

TS-520_820_530_830-unsubscribe@yahoogroups.com

Joe Wolfe
WA6RKN
Reno, Nevada

----- Original Message -----
From: "George Campbell" <campbellgc@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, December 20, 2009 5:45 AM
Subject: [TS-520_820_530_830] UNSUBSCRIBE

UNSUBSCRIBE

24048. Help TS-520 recap

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-20 06:24:42 UTC
From: n7zef
Topic: 24048 Message: 24048

Howdy
I would like to re-cap my TS-520, mainly because of the age of the radio. I have the recap kit I got from eBay, and noticed there was very little in directions, that is, what caps on what boards to change.
I am asking for suggestions or advice on what others have done to recap their radios. I noticed a lot of "bread ties" on the wire bundles. Are these reused, or can nylon ties be used. Does wires have to be removed and reconnected to make enough room to work, or is there another method. Do all boards need to be done?
I am not afraid to work on this, just looking for others ideas on this. This radio looks like it was taken care of, just the back is a little dented. It has both filters, and the original tubes.
Appreciate any help not only for me but possibly someone else planning the same.
Thanks
73
Mike - N7ZEF

24049. Re: Now I did it!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-20 16:38:06 UTC
From: jay_hendershott
Topic: 24017 Message: 24049

Thank you W5RKL and all the others who responded. Last night while checking voltage to the VFO from the AF board I was able to get the unit functioning again. I am not 100% sure but I believe I found a bad solder joint where the 9volts supply comes into the VFO and then jumpers up to the circuit board. I must have disturbed it enough to cause the break. The only issue I have now is the VFO will only tune down to 7.015 and so on throughout the different bands, 14.015 etc. One question I have regarding a frequency counter, I own an MFJ 269B antenna analyzer with a built in frequency counter. I have heard that the counter in this unit is not accurate enough for an alignment tool. Any thought on this? If not what would you recommend for a frequency counter so I may carryout parts of the 820S alignment procedure? I am studying the service manual at this point to see if I may have bumped something else or if I am having a mechanical issue now. Thanks again to all.
--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> You won't hear the Marker signal if the receiver's now working.
>
> Since both transmit and receive are affected, the problem is associated with one of the 3 common circuits, PLL, VFO, and CAR UNITs and quite possibly power to all 3. I discussed this in a previous response. So, start doing some voltage checks.
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24050. New Member

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-20 17:03:23 UTC
From: Bernie
Topic: 133 Message: 24050

Hi all
Just thought I would say hi. I am a retired 68 year old that now has time to go back to my hobby of about 58 years. I was given a copy of the "Handbook", I think it was about a 1948 issue when I was 10 years old and have been hooked on electronics every since. Back about 35 years ago I did get my novice ticket, was WBØZPK, but ended up letting it expire because of time constraints of work, 16 or more hours a day in my own restaurants. Now being forced into retirement by a massive heart attack I am back studying to take both my tech and general tests. I have 2 TS-830S "gold", a TS-820S, a TS-940S/AT sitting on my desk waiting to be hooked to wires when I do test. I do have an ICOM IC-745 that I have a random wire hooked to so that I can listen.

I guess I have rambled long enough but just wanted to say hi to everyone.

BERNIE MI

24051. Re: [TS-520_820_530_830] New Member

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-20 18:53:57 UTC
From: Gary Meyer
Topic: 133 Message: 24051

Welcome back Bernie. I'm your age with no heart trouble. I've been back in the hobby for about 5 yrs after about 40 off. Enjoy

KC0NPJ Gary

[Non-text portions of this message have been removed]

24052. Re: Now I did it!

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-20 19:03:24 UTC
From: w5rkl
Topic: 24017 Message: 24052

Jay,

I suspect the reason for the VFO only tuning down to 015 on all band is the dial itself is out of alignment. This happens quite often when the VFO has been removed.

I'll describe the steps as simple as possible. Read and fully understand the steps before you attempt any of them. The important thing, as I will say a few times, is the dials must not scrap and there should be no stiffness is tuning the VFO regardless of where on the dial the knob is rotated! The VFO should and can, if proper steps are taken, tune as smooth as oil on glass! My 820 dial tunes as smooth as oil on glass with absolutely zero stiffness or scrapping! So, take your time, it can be done!

Make absolutely sure you do NOT loose any screws!! I use an old egg carton to hold the screws.

1. Set the 820 on the desk, front panel facing you.

2. Turn power OFF.

3. Tune the VFO to the point where the VFO stops are felt. Do NOT force the VFO beyond this point!

4. Remove the VFO know

5. Remove the 2 screws hold the flat calibration knob.

6. Remove the bearing ring.

7. Remove the 4 screws holding the dial escutcheon to the front panel.

8. Loosen the set screws on the front dial and remove, slide the dial off the shaft.

9. Turn the 820 on, set the FUNCTION switch to 25Khz.

10. Loosen the set screw hold the rear dial.

11. Rotate the VFO shaft clockwise and zero beat the Marker signal. The digital dial should indicate x.000.00.

12. Rotate the rear dial so the number "5" is at the 1 o'clock position. There is only one number 5 on the dial and tighten the set screw. Make any corrections to the VFO shaft so the digital dial continues to display x.000.0. If necessary, loosen the rear dial set screw and rotate it so the number "5" is at the 1 o'clock position then tighten the set screw. The key is to have the number 5 at the 1 o'clock position AND the digital display showing "x.000.0".

13. Slide the front dial onto the VFO, maintaining x.000.0 on the digital display. The front dial's "00" should line up at 12 o'clock and the number "5' should appear centered in the square window to the right! This is important! If it remove the front dial, loosen the

rear dial's set screw, rotate either direction, then tighten the dial, again, maintain x.000.0 on the digital display. Slide the front dial onto the shaft, "00" aligned at 12 o'clock, and number 5 centered in the square window to the right. Tighten the front panel's set screw. The digital display should show x.000.0, 00 on the front dial aligned at 12 o'clock, and number "5" centered in the square window to the right.

14. Once this is done, install the dial escutcheon, bearing ring, calibration dial, and main VFO knob, in that order. Rotate the VFO knob, listening for and feeling for any scrapping and/or stiffness. Fix any scrapping and/or stiffness!

The dial should tune from one end of the dial to the other without any scrapping and/or stiffness. Also, watch as the dial rotates past each 100Khz. From x.000.0 to x.999.0, the small window should be blank. At each 100Khz, 100, 200, 300, 400, and 500, the windows should advance by 1 numbers. I.E., tuning to x.100.0, the small window should show a "1", at 200, a "2", 300 a "3" etc.

Look at the analog, digital, and 100Khz dial, when the VFO is tuned to the bottom of the dial, x.000.0. All 3 should be at "0"! It's ok if they are not exactly at zero but try your best to get them at "0". The 100Khz dial is the one at the top of the analog dial. It has 0, 100, 200, 300, 400, and 500 with 50Khz marks between each 100Khz marker. If the coil and capacitors have not been messed with the dial should track rather close throughout the rotation of the VFO.

This may take you a few tries to get it right but, like I said, the VFO should tune as smooth as oil on glass with absolutely no drag or stiffness! If it doesn't then you have not aligned the dials correctly.

This procedure is outlined in the 820 service manual BUT the translation from Japanese to English is, in my opinion, not very good. I had to read the manual a number of time to understand what Kenwood was saying.

Unless there are major changes inside the VFO, do NOT adjust the coils. Align the dials FIRST! More than 95% of the VFO problems of this nature are dial alignment and NOT coil adjustment issues. So, again, align the dial FIRST!

Okay, enough of my babbling on. If you have any questions, ask!

73s
Mike W5RKL

24053. Re: Help TS-520 recap

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-20 19:16:22 UTC
From: w5rkl
Topic: 24048 Message: 24053

Hello Mike,

No, you do not have to replace all of the capacitors in your 520.

The important capacitors are the HV capacitors (directly behind the VFO), the bias supply capacitors (2 x 33ufd 160VDC on the Rectifier Unit), and 2 x 2200ufd 16VDC capacitors on the bottom right corner (520 turned upside down).

If you replace the 2 x 2200ufd 16VDC capacitors, replace them with capacitors that have a higher voltage rating, 25VDC instead of 16VDC. Maintain the same capacitance, 2200ufd and same axial lead capacitors. Kenwood increased the voltage rating of these capacitors in the 820, 530, and 830 series hybrids.

There are 2 black dual capacitor cans located under the VOX and Marker UNIT boards. Each can has two 22ufd 450VDC capacitors inside each can. These require some work to get them replaced. There are no original direct replacements for these caps. These are the filter capacitors for the 300 and both 210 Rectifier Unit supply voltages. To find them you must remove the VOX UNIT and Marker boards, 520 right side up front panel facing you, on the top left rear. The wiring is on the bottom.

You can replace other capacitors as time goes on but for now, that's about all you should replace.

If you are not sure how to do this may I recommend finding a local ham who has the experience in this type of repair so he can help you.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "n7zef" <n7zef@...> wrote:
>
> Howdy
> I would like to re-cap my TS-520, mainly because of the age of the radio. I have the recap kit I got from eBay, and noticed there was very little in directions, that is, what caps on what boards to change.
> I am asking for suggestions or advice on what others have done to recap their radios. I noticed a lot of "bread ties" on the wire bundles. Are these reused, or can nylon ties be used. Does wires have to be removed and reconnected to make enough room to work, or is there another method. Do all boards need to be done?
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> Appreciate any help not only for me but possibly someone else planning the same.
> Thanks
> 73
> Mike - N7ZEF
>

24054. RE: [TS-520_820_530_830] Re: Help TS-520 recap

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-20 20:11:25 UTC
From: Greg Anders
Topic: 24048 Message: 24054

I strongly recommend replacing the filter caps on the bias supply. Lose bias, lose your finals. Mike is absolutely on the money with his recommendation.

Greg
KG6YV

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w5rkl
Sent: Sunday, December 20, 2009 11:16 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: Help TS-520 recap

Hello Mike,

No, you do not have to replace all of the capacitors in your 520.

The important capacitors are the HV capacitors (directly behind the VFO), the bias supply capacitors (2 x 33ufd 160VDC on the Rectifier Unit), and 2 x 2200ufd 16VDC capacitors on the bottom right corner (520 turned upside down).

If you replace the 2 x 2200ufd 16VDC capacitors, replace them with capacitors that have a higher voltage rating, 25VDC instead of 16VDC. Maintain the same capacitance, 2200ufd and same axial lead capacitors. Kenwood increased the voltage rating of these capacitors in the 820, 530, and 830 series hybrids.

There are 2 black dual capacitor cans located under the VOX and Marker UNIT boards. Each can has two 22ufd 450VDC capacitors inside each can. These require some work to get them replaced. There are no original direct replacements for these caps. These are the filter capacitors for the 300 and both 210 Rectifier Unit supply voltages. To find them you must remove the VOX UNIT and Marker boards, 520 right side up front panel facing you, on the top left rear. The wiring is on the bottom.

You can replace other capacitors as time goes on but for now, that's about all you should replace.

If you are not sure how to do this may I recommend finding a local ham who has the experience in this type of repair so he can help you.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830%40yahoogroups.com>, "n7zef" <n7zef@...> wrote:
>
> Howdy
> I would like to re-cap my TS-520, mainly because of the age of the radio. I have the recap kit I got from eBay, and noticed there was very little in directions, that is, what caps on what boards to change.

> I am asking for suggestions or advice on what others have done to recap their radios. I noticed a lot of "bread ties" on the wire bundles. Are these reused, or can nylon ties be used. Does wires have to be removed and reconnected to make enough room to work, or is there another method. Do all boards need to be done?
> I am not afraid to work on this, just looking for others ideas on this. This radio looks like it was taken care of, just the back is a little dented. It has both filters, and the original tubes.
> Appreciate any help not only for me but possibly someone else planning the same.
> Thanks
> 73
> Mike - N7ZEF
>

[Non-text portions of this message have been removed]

24055. Kenwood MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-20 20:04:11 UTC
From: laafa6cb
Topic: 24055 Message: 24055

Hello Group;
I bought an MC50 mic from a fellow and the hi-lo transformer has been removed for whatever reason. He failed to tell me this and I don't recall asking(should have). All he said was that it worked.
So, if anyone has a spare transformer from a parted out mc50. I know that Heil makes a d104 kit/etc. But that matching xfmer is std 1k/50ohm audio, I installed the one I have, doesn't work so well. Imp presented to radio is too low. TS820s is looking for hi imp.
I swapped eqt for mc50, so the 820 has a mic, but I would like to fix this onr for the 520s.
post on group or email direct: w5dja@...

24056. Re: New Member

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-20 21:59:11 UTC
From: Bob
Topic: 133 Message: 24056

Welcome Back Bernie
I to worked in the restaurant business for the last 40 years. I have enjoyed Ham Radio for the last 35 or so years. Welcome back. Only those that have been successful in the restaurant business really understand what it takes. To have worked 16 hr days is the norm if you own your own, and 12 to 14 if your work for one of the groups today. Exhaustion is the norm, and you begin to just live in a cloud of exhaustion from day to day. Get the license back and I Look forward to talking to you on the air.
Merry Christmas
Bob
KB6KPK

--- In TS-520_820_530_830@yahoogroups.com, "Bernie" <pizzameister2001@...> wrote:
>
> Hi all
> Just thought I would say hi. I am a retired 68 year old that now has time to go back to my hobby of about 58 years. I was given a copy of the "Handbook", I think it was about a 1948 issue when I was 10 years old and have been hooked on electronics every since. Back about 35 years ago I did get my novice ticket, was WBØZPK, but ended up letting it expire because of time constraints of work, 16 or more hours a day in my own restaurants. Now being forced into retirement by a massive heart attack I am back studying to take both my tech and general tests. I have 2 TS-830S "gold", a TS-820S, a TS-940S/AT sitting on my desk waiting to be hooked to wires when I do test. I do have an ICOM IC-745 that I have a random wire hooked to so that I can listen.
>
> I guess I have rambled long enough but just wanted to say hi to everyone.
>
> BERNIE MI
>

24057. Re: [TS-520_820_530_830] Kenwood MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-20 22:55:11 UTC
From: martin
Topic: 24055 Message: 24057

Hi. The MC-50 mic element is probably about 600 Ohms impedance. So
you would need to find an audio transformer 600 Ohms to 50K ohms.
Even if you can't find the exact impedance values, something close
should work. If you do some looking on the net, you will probably be
able to find something.

Personally, I would be looking for for your eqt back, as the guy
didn't tell you about removing the transformer. I consider that he
didn't tell to be the same as a lie. He DID lie by omission of a fact
that you should have been told!

TTYL

laafa6cb wrote:
> Hello Group; I bought an MC50 mic from a fellow and the hi-lo
> transformer has been removed for whatever reason. He failed to tell
> me this and I don't recall asking(should have). All he said was
> that it worked. So, if anyone has a spare transformer from a parted
> out mc50. I know that Heil makes a d104 kit/etc. But that matching
> xfmer is std 1k/50ohm audio, I installed the one I have, doesn't
> work so well. Imp presented to radio is too low. TS820s is looking
> for hi imp. I swapped eqt for mc50, so the 820 has a mic, but I
> would like to fix this onr for the 520s. post on group or email
> direct: w5dja@...
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

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www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

24058. TS-530S manual

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-21 00:18:01 UTC
From: Dale
Topic: 743 Message: 24058

I just purchased a TS-530S in anticipation of passing my General test in Feb., does anybody have a manual for it for sale or know where I can get one?

Dale
KC9RCE

24059. Re: [TS-520_820_530_830] TS-530S manual

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-21 00:52:17 UTC
From: Don Thomas
Topic: 743 Message: 24059

Has everything for download. http://www.n6wk.com/kenwood/

Don T.

--- On Sun, 12/20/09, Dale <wireu@...> wrote:

From: Dale <wireu@...>
Subject: [TS-520_820_530_830] TS-530S manual
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, December 20, 2009, 6:18 PM

I just purchased a TS-530S in anticipation of passing my General test in Feb., does anybody have a manual for it for sale or know where I can get one?

Dale
KC9RCE

[Non-text portions of this message have been removed]

24060. Re: [TS-520_820_530_830] Help TS-520 recap

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-21 01:41:33 UTC
From: John Davidson
Topic: 24048 Message: 24060

My thoughts ...
If a hybrid (or all tube) radio has not been used in years (in storage?) the HV B+ filters would be the ones to change and maybe some of the low voltage A+ filters.
My TS520 has been in constant use since the day I brought it home from the store new. The longest it has sat idle has been a week or two when I was away on vacations or schools. .
There is no reason for me to replace anything because this radio was designed to be used and not stored away !
Still works fine.

--- On Sun, 12/20/09, n7zef <n7zef@...> wrote:

From: n7zef <n7zef@...>
Subject: [TS-520_820_530_830] Help TS-520 recap
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, December 20, 2009, 1:24 AM

Howdy
I would like to re-cap my TS-520, mainly because of the age of the radio. I have the recap kit I got from eBay, and noticed there was very little in directions, that is, what caps on what boards to change.
I am asking for suggestions or advice on what others have done to recap their radios. I noticed a lot of "bread ties" on the wire bundles. Are these reused, or can nylon ties be used. Does wires have to be removed and reconnected to make enough room to work, or is there another method. Do all boards need to be done?
I am not afraid to work on this, just looking for others ideas on this. This radio looks like it was taken care of, just the back is a little dented. It has both filters, and the original tubes.
Appreciate any help not only for me but possibly someone else planning the same.
Thanks
73
Mike - N7ZEF

[Non-text portions of this message have been removed]

24061. kenwood 830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-21 02:33:45 UTC
From: mwhod
Topic: 24061 Message: 24061

I have a kenwood 830, that transmits fine in cw, full power out, but in voice it will not do a thing, i wonder if anyone has experienced this problem and could advise me, i would appreciate any help. thanks name here is mike

24062. Re: [TS-520_820_530_830] kenwood 830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-21 02:47:59 UTC
From: Charlie , W5COV
Topic: 24061 Message: 24062

Hi Mike ,

Could you provide some more details ?

You of course should not show any power out on SSB , until you supply audio to the microphone , such as talking into it .

Charlie , W5COV

[Non-text portions of this message have been removed]

24063. Re: [TS-520_820_530_830] kenwood 830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-21 02:51:22 UTC
From: Dave ve3wej
Topic: 24061 Message: 24063

mic gain up??? microphone ok, can you test on another rig???

----- Original Message -----
From: "mwhod" <mwhodges@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, December 20, 2009 9:33 PM
Subject: [TS-520_820_530_830] kenwood 830

>I have a kenwood 830, that transmits fine in cw, full power out, but in
>voice it will not do a thing, i wonder if anyone has experienced this
>problem and could advise me, i would appreciate any help. thanks name here
>is mike
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

24064. Re: Kenwood MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-21 03:05:33 UTC
From: w5rkl
Topic: 24055 Message: 24064

Mouser sells a small 50K CT primary to 1K CT secondary audio transformer for $2.08 a piece. You can look at the data sheet for this transformer at the following link:

http://www.mouser.com/catalog/specsheets/XC-600134.pdf

Mouser's part number is:
42TM117-RC
Price: $2.07 each

Check to ensure the size of the transformer will fit in the MC-50's base. Since I don't have an MC-50 I can't tell for sure. The data sheet measurements are in "inches".

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@...> wrote:
>
> Hi. The MC-50 mic element is probably about 600 Ohms impedance. So
> you would need to find an audio transformer 600 Ohms to 50K ohms.
> Even if you can't find the exact impedance values, something close
> should work. If you do some looking on the net, you will probably be
> able to find something.
>
> Personally, I would be looking for for your eqt back, as the guy
> didn't tell you about removing the transformer. I consider that he
> didn't tell to be the same as a lie. He DID lie by omission of a fact
> that you should have been told!
>
> TTYL
>
> laafa6cb wrote:
> > Hello Group; I bought an MC50 mic from a fellow and the hi-lo
> > transformer has been removed for whatever reason. He failed to tell
> > me this and I don't recall asking(should have). All he said was
> > that it worked. So, if anyone has a spare transformer from a parted
> > out mc50. I know that Heil makes a d104 kit/etc. But that matching
> > xfmer is std 1k/50ohm audio, I installed the one I have, doesn't
> > work so well. Imp presented to radio is too low. TS820s is looking
> > for hi imp. I swapped eqt for mc50, so the 820 has a mic, but I
> > would like to fix this onr for the 520s. post on group or email
> > direct: w5dja@...
> >
>
>
> --
> CUL8R

>
> KBOHAE kb0hae@... Martin Campbell
>
> A Satisfied Sidux Linux user! To get Sidux go to:
> www.sidux.com/index.html
> "Protect your digital freedom and privacy, eliminate DRM, learn more
> at http://www.defectivebydesign.org/what_is_drm"
>

24065. wanted a 520 face

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-21 03:45:50 UTC
From: kevin
Topic: 24065 Message: 24065

I am looking for a very clean 520 face. Please reply offline.
Kevin
KD0ILM

24066. Re: [TS-520_820_530_830] wanted a 520 face

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-21 11:58:42 UTC
From: Daniel TOESCA
Topic: 24065 Message: 24066

Hi, I saw this one :

http://cgi.ebay.de/ORIGINAL-KENWOOD-ERSATZTEIL-Frontplattenblech-TS-520_W0QQitemZ160387994881QQcmdZViewItemQQptZDE_TV_Video_Elektronik_Funkger%C3%A4te?hash=item2557de9501

It may not be a full front panel though.

73's - Daniel, ON5PY

2009/12/21, kevin <kmx888@...>:
>
>
>
> I am looking for a very clean 520 face. Please reply offline.
> Kevin
> KD0ILM
>
>
>

[Non-text portions of this message have been removed]

24067. Re: Kenwood MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-21 12:35:14 UTC
From: sv0xbq
Topic: 24055 Message: 24067

Hi Guys,
There is no transformer in the base of the MC-50. All that's in there is the PTT switch. On the MC-50 you change the impedance by unscrewing the cable from the rear of the mic body and rotating it 180 degreees. If you look close there is a little red dot and "H" and "L" letters. In the "H" position I think it's 50K.

Chris

--- In TS-520_820_530_830@...m, "w5rkl" <w5rkl@...> wrote:
>
> Mouser sells a small 50K CT primary to 1K CT secondary audio transformer for $2.08 a piece. You can look at the data sheet for this transformer at the following link:
>
> http://www.mouser.com/catalog/specsheets/XC-600134.pdf
>
> Mouser's part number is:
> 42TM117-RC
> Price: $2.07 each
>
> Check to ensure the size of the transformer will fit in the MC-50's base. Since I don't have an MC-50 I can't tell for sure. The data sheet measurements are in "inches".
>
> 73s
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@> wrote:
> >
> > Hi. The MC-50 mic element is probably about 600 Ohms impedance. So
> > you would need to find an audio transformer 600 Ohms to 50K ohms.
> > Even if you can't find the exact impedance values, something close
> > should work. If you do some looking on the net, you will probably be
> > able to find something.
> >
> > Personally, I would be looking for for your eqt back, as the guy
> > didn't tell you about removing the transformer. I consider that he
> > didn't tell to be the same as a lie. He DID lie by omission of a fact
> > that you should have been told!
> >
> > TTYL
> >
> > laafa6cb wrote:
> > > Hello Group; I bought an MC50 mic from a fellow and the hi-lo
> > > transformer has been removed for whatever reason. He failed to tell
> > > me this and I don't recall asking(should have). All he said was
> > > that it worked. So, if anyone has a spare transformer from a parted

> > > out mc50. I know that Heil makes a d104 kit/etc. But that matching
> > > xfmer is std 1k/50ohm audio, I installed the one I have, doesn't
> > > work so well. Imp presented to radio is too low. TS820s is looking
> > > for hi imp. I swapped eqt for mc50, so the 820 has a mic, but I
> > > would like to fix this onr for the 520s. post on group or email
> > > direct: w5dja@
> > >
> >
> >
> > --
> > CUL8R
> >
> > KBOHAE kb0hae@ Martin Campbell
> >
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> >
>

24068. Re: [TS-520_820_530_830] Re: Kenwood MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-21 13:38:54 UTC
From: Dave & Loraine
Topic: 24055 Message: 24068

Look at the mic data sheet.
MC50 mic has a low impedance dynamic element and contains a transformer
that's switched by the mic plug setting.
73 Dave f4eyk

24069. Re: Kenwood MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-21 14:20:20 UTC
From: w5rkl
Topic: 24055 Message: 24069

That is true. The impedance matching transformer is located inside the microphone body, not in the base. This is quite evident by reviewing the MC-50 instruction/operating document.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "sv0xbq" <alexandchrisp@...> wrote:
>
> Hi Guys,
> There is no transformer in the base of the MC-50. All that's in there is the PTT switch. On the MC-50 you change the impedance by unscrewing the cable from the rear of the mic body and rotating it 180 degreees. If you look close there is a little red dot and "H" and "L" letters. In the "H" position I think it's 50K.
>
> Chris
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Mouser sells a small 50K CT primary to 1K CT secondary audio transformer for $2.08 a piece. You can look at the data sheet for this transformer at the following link:
> >
> > http://www.mouser.com/catalog/specsheets/XC-600134.pdf
> >
> > Mouser's part number is:
> > 42TM117-RC
> > Price: $2.07 each
> >
> > Check to ensure the size of the transformer will fit in the MC-50's base. Since I don't have an MC-50 I can't tell for sure. The data sheet measurements are in "inches".
> >
> > 73s
> > Mike W5RKL
> >
> > --- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@> wrote:
> > >
> > > Hi. The MC-50 mic element is probably about 600 Ohms impedance. So
> > > you would need to find an audio transformer 600 Ohms to 50K ohms.
> > > Even if you can't find the exact impedance values, something close
> > > should work. If you do some looking on the net, you will probably be
> > > able to find something.
> > >
> > > Personally, I would be looking for for your eqt back, as the guy
> > > didn't tell you about removing the transformer. I consider that he
> > > didn't tell to be the same as a lie. He DID lie by omission of a fact
> > > that you should have been told!

> > >
> > > TTYL
> > >
> > > laafa6cb wrote:
> > > > Hello Group; I bought an MC50 mic from a fellow and the hi-lo
> > > > transformer has been removed for whatever reason. He failed to tell
> > > > me this and I don't recall asking(should have). All he said was
> > > > that it worked. So, if anyone has a spare transformer from a parted
> > > > out mc50. I know that Heil makes a d104 kit/etc. But that matching
> > > > xfmer is std 1k/50ohm audio, I installed the one I have, doesn't
> > > > work so well. Imp presented to radio is too low. TS820s is looking
> > > > for hi imp. I swapped eqt for mc50, so the 820 has a mic, but I
> > > > would like to fix this onr for the 520s. post on group or email
> > > > direct: w5dja@
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> > > --
> > > CUL8R
> > >
> > > KBOHAE kb0hae@ Martin Campbell
> > >
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> > > at http://www.defectivebydesign.org/what_is_drm"
> > >
> >
>

24070. Re: Kenwood MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-21 14:24:08 UTC
From: w5rkl
Topic: 24055 Message: 24070

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Mouser sells a small 50K CT primary to 1K CT secondary audio transformer for $2.08 a piece. You can look at the data sheet for this transformer at the following link:
>
> http://www.mouser.com/catalog/specsheets/XC-600134.pdf
>
> Mouser's part number is:
> 42TM117-RC
> Price: $2.07 each
>
> Check to ensure the size of the transformer will fit in the MC-50's
> base.

The above statement should have said "Microphone housing" not "MC-50's base".

73s
Mike W5RKL

> --- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@> wrote:
> >
> > Hi. The MC-50 mic element is probably about 600 Ohms impedance. So
> > you would need to find an audio transformer 600 Ohms to 50K ohms.
> > Even if you can't find the exact impedance values, something close
> > should work. If you do some looking on the net, you will probably be
> > able to find something.
> >
> > Personally, I would be looking for for your eqt back, as the guy
> > didn't tell you about removing the transformer. I consider that he
> > didn't tell to be the same as a lie. He DID lie by omission of a fact
> > that you should have been told!
> >
> > TTYL
> >
> > laafa6cb wrote:
> > > Hello Group; I bought an MC50 mic from a fellow and the hi-lo
> > > transformer has been removed for whatever reason. He failed to tell
> > > me this and I don't recall asking(should have). All he said was
> > > that it worked. So, if anyone has a spare transformer from a parted
> > > out mc50. I know that Heil makes a d104 kit/etc. But that matching
> > > xfmer is std 1k/50ohm audio, I installed the one I have, doesn't
> > > work so well. Imp presented to radio is too low. TS820s is looking
> > > for hi imp. I swapped eqt for mc50, so the 820 has a mic, but I
> > > would like to fix this onr for the 520s. post on group or email
> > > direct: w5dja@
> > >

> >
> >
> > --
> > CUL8R
> >
> > KBOHAE kb0hae@ Martin Campbell
> >
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> >
>

24071. Sad for my TS-820... need spare

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-21 14:49:07 UTC
From: Andrea Liverani
Topic: 24071 Message: 24071

At least i have found the problem of my ts-820.
The bandswitch inside the PA tank has burned and irreparable contacts
on 20meters band.
I need a working bandswitch in order to repair my radio.

The first question is if the bandswitch is the same of the other hybrids
(i don't' think so because 530 and 830 have warc bands also), but maybe
is the same on ts-520.

the second question is where can i buy one ? has anybody a spare to sell?

73!

Scopri tuttele novità di Internet Explorer 8
http://www.microsoft.com/italy/windows/internet-explorer/msn.aspx

[Non-text portions of this message have been removed]

24072. Re: Help TS-520 recap

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-21 17:24:45 UTC
From: scott10k
Topic: 24048 Message: 24072

Hi Mike,

On my TS-520S I replaced just the power supply caps that Mike, W5RKL, suggested, plus a small cap (C11) on the Fix Channel AVR Board. I did the latter because I had jumpy (erratic) AGC action. With just the above caps replaced my rig is performing flawlessly. If you contact p_simpson@rogers.com, he may e-mail you some step-by-step instructions on replacing the HV caps. Caution-lethal voltage so be sure the radio is unplugged and discharge the HV caps with a screwdriver.
73s, Scott, N^CIC

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hello Mike,
>
> No, you do not have to replace all of the capacitors in your 520.
>
> The important capacitors are the HV capacitors (directly behind the VFO), the bias supply capacitors (2 x 33ufd 160VDC on the Rectifier Unit), and 2 x 2200ufd 16VDC capacitors on the bottom right corner (520 turned upside down).
>
> If you replace the 2 x 2200ufd 16VDC capacitors, replace them with capacitors that have a higher voltage rating, 25VDC instead of 16VDC. Maintain the same capacitance, 2200ufd and same axial lead capacitors. Kenwood increased the voltage rating of these capacitors in the 820, 530, and 830 series hybrids.
>
> There are 2 black dual capacitor cans located under the VOX and Marker UNIT boards. Each can has two 22ufd 450VDC capacitors inside each can. These require some work to get them replaced. There are no original direct replacements for these caps. These are the filter capacitors for the 300 and both 210 Rectifier Unit supply voltages. To find them you must remove the VOX UNIT and Marker boards, 520 right side up front panel facing you, on the top left rear. The wiring is on the bottom.
>
> You can replace other capacitors as time goes on but for now, that's about all you should replace.
>
> If you are not sure how to do this may I recommend finding a local ham who has the experience in this type of repair so he can help you.
>
> 73s
> Mike W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com, "n7zef" <n7zef@> wrote:
> >
> > Howdy
> > I would like to re-cap my TS-520, mainly because of the age of the radio. I have the

recap kit I got from eBay, and noticed there was very little in directions, that is, what caps on what boards to change.
> > I am asking for suggestions or advice on what others have done to recap their radios. I noticed a lot of "bread ties" on the wire bundles. Are these reused, or can nylon ties be used. Does wires have to be removed and reconnected to make enough room to work, or is there another method. Do all boards need to be done?
> > I am not afraid to work on this, just looking for others ideas on this. This radio looks like it was taken care of, just the back is a little dented. It has both filters, and the original tubes.
> > Appreciate any help not only for me but possibly someone else planning the same.
> > Thanks
> > 73
> > Mike - N7ZEF
> >
>

24073. Re: [TS-520_820_530_830] Re: Kenwood MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-21 17:48:41 UTC
From: Jerry Seay
Topic: 24055 Message: 24073

You are absolutely correct. It is easy to forget that the cable to the microphone will plug in one of two positions. For the 830, red and H must line up and you should be good to go. I clean the PTT contacts with DeOxit 5 and a gentle scrubbing with a fiber nail board. They carbon over with time.

Jerry, KE5PUT

On Mon, 2009-12-21 at 12:35 +0000, sv0xbq wrote:
>
> Hi Guys,
> There is no transformer in the base of the MC-50. All that's in there
> is the PTT switch. On the MC-50 you change the impedance by unscrewing
> the cable from the rear of the mic body and rotating it 180 degreees.
> If you look close there is a little red dot and "H" and "L" letters.
> In the "H" position I think it's 50K.
>
> Chris
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
> >
> > Mouser sells a small 50K CT primary to 1K CT secondary audio
> transformer for $2.08 a piece. You can look at the data sheet for this
> transformer at the following link:
> >
> > http://www.mouser.com/catalog/specsheets/XC-600134.pdf
> >
> > Mouser's part number is:
> > 42TM117-RC
> > Price: $2.07 each
> >
> > Check to ensure the size of the transformer will fit in the MC-50's
> base. Since I don't have an MC-50 I can't tell for sure. The data
> sheet measurements are in "inches".
> >
> > 73s
> > Mike W5RKL
> >
> > --- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@> wrote:
> > >
> > > Hi. The MC-50 mic element is probably about 600 Ohms impedance.
> So
> > > you would need to find an audio transformer 600 Ohms to 50K ohms.
> > > Even if you can't find the exact impedance values, something
> close

> > > should work. If you do some looking on the net, you will probably
> be
> > > able to find something.
> > >
> > > Personally, I would be looking for for your eqt back, as the guy
> > > didn't tell you about removing the transformer. I consider that
> he
> > > didn't tell to be the same as a lie. He DID lie by omission of a
> fact
> > > that you should have been told!
> > >
> > > TTYL
> > >
> > > laafa6cb wrote:
> > > > Hello Group; I bought an MC50 mic from a fellow and the hi-lo
> > > > transformer has been removed for whatever reason. He failed to
> tell
> > > > me this and I don't recall asking(should have). All he said was
> > > > that it worked. So, if anyone has a spare transformer from a
> parted
> > > > out mc50. I know that Heil makes a d104 kit/etc. But that
> matching
> > > > xfmer is std 1k/50ohm audio, I installed the one I have, doesn't
> > > > work so well. Imp presented to radio is too low. TS820s is
> looking
> > > > for hi imp. I swapped eqt for mc50, so the 820 has a mic, but I
> > > > would like to fix this onr for the 520s. post on group or email
> > > > direct: w5dja@
> > > >
> > >
> > >
> > > --
> > > CUL8R
> > >
> > > KBOHAE kb0hae@ Martin Campbell
> > >
> > > A Satisfied Sidux Linux user! To get Sidux go to:
> > > www.sidux.com/index.html
> > > "Protect your digital freedom and privacy, eliminate DRM, learn
> more
> > > at http://www.defectivebydesign.org/what_is_drm"
> > >
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24074. Re: [TS-520_820_530_830] Digest Number 2787

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-21 16:26:06 UTC
From: rkersey tds.net
Topic: 24074 Message: 24074

Hi All,

Several years ago, about 2004, I bought a working TS-830S from a ham in Texas. I don't have the emails we exchanged at that time any more, so I don't know what he changed or worked on in the radio, if anything. I had planned to get my General ticket then, but just got around to doing it a few weeks ago. I'm hoping to get the station set up after Christmas. With the discussion about changing the various caps I just read, I'm wondering if I need to do anything besides just plug in the radio and see if it works. It's been boxed up for the last five years . . . .

73
Roy Kersey
KI4HAG

[Non-text portions of this message have been removed]

24075. Re: [TS-520_820_530_830] Sad for my TS-820... need spare

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-21 21:35:25 UTC
From: Lou Blasco
Topic: 24071 Message: 24075

Try Ken,

http://www.k4eaa.com/

Lou
VK3ALB

At 01:49 AM 22/12/2009, you wrote:

>At least i have found the problem of my ts-820.
>The bandswitch inside the PA tank has burned and irreparable contacts
>on 20meters band.
>I need a working bandswitch in order to repair my radio.
>
>The first question is if the bandswitch is the same of the other hybrids
>(i don't' think so because 530 and 830 have warc bands also), but maybe
>is the same on ts-520.
>
>the second question is where can i buy one ? has anybody a spare to sell?
>
>73!
>

24076. Re: New Member

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-21 21:54:21 UTC
From: james27613
Topic: 133 Message: 24076

hi,

Perhaps we can get a couple of
recipes for Field Day instead of the
same old burgers and dogs !

73 james ke4drn

24077. Re: [TS-520_820_530_830] Sad for my TS-820... need spare

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-21 22:54:11 UTC
From: jsloss
Topic: 24071 Message: 24077

Andrea Which wafers do you need. I need a RF bandswitch for a 520S and perhaps we can find one that will solve our problems. I doubt if a TS-520 BS will work for you as it does not have 160m whereas the 820 does.

Joe k7mks@...

[Non-text portions of this message have been removed]

24078. BS5 in SM220

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-21 22:34:21 UTC
From: Frank VK5KV
Topic: 24078 Message: 24078

Gent's
I've asked this before but I'll ask again;

Has anyone fitted a SM220 with BS5 band scope to a 520s? And if you did, did you follow the instructions in the SM220 manual? These appear to be wrong because how can you view 100/20 kHz after the SSB Xtal filter. The band scope in my experiance with other Txcvr's must be before the SSB Filter. However in doing this with the by-pass cap spec'd in the SM220 manual this mod loads the IF stage down. Any experiances would be appreciated.

Cheers, Frank VK5KV

24079. RE: [TS-520_820_530_830] Sad for my TS-820... need spare

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 00:55:22 UTC
From: Andrea Liverani
Topic: 24071 Message: 24079

Hi i suppose ts820s AND ts520s share THE same final bandswitch because they have same bands but in THE Service manual THE switch have different codes so i AM not shure. Simeone knows if THE find bandswitch of those radios Are THE same?

To: TS-520_820_530_830@yahoogroups.com
From: k7mks@...
Date: Mon, 21 Dec 2009 14:54:11 -0800
Subject: Re: [TS-520_820_530_830] Sad for my TS-820... need spare

Andrea Which wafers do you need. I need a RF bandswitch for a 520S and perhaps we can find one that will solve our problems. I doubt if a TS-520 BS will work for you as it does not have 160m whereas the 820 does.

Joe k7mks@...

[Non-text portions of this message have been removed]

Giochi, radio, TV... E tutti i tuoi amici. Cercali su Messenger
http://www.messenger.it/home_comunica.aspx

[Non-text portions of this message have been removed]

24080. Re: Digest Number 2787

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 01:20:14 UTC
From: boat.anchor
Topic: 24074 Message: 24080

Roy
I would be tempted to bring it up slowly with a variac. God willing all will be well.
Regards from a fellow faceter.
Barry in Vancouver
VA7GEM

--- In TS-520_820_530_830@yahoogroups.com, "rkersey tds.net" <rkersey@...> wrote:
>
> Hi All,
>
> Several years ago, about 2004, I bought a working TS-830S from a ham in
> Texas. I don't have the emails we exchanged at that time any more, so I
> don't know what he changed or worked on in the radio, if anything. I had
> planned to get my General ticket then, but just got around to doing it a few
> weeks ago. I'm hoping to get the station set up after Christmas. With the
> discussion about changing the various caps I just read, I'm wondering if I
> need to do anything besides just plug in the radio and see if it works.
> It's been boxed up for the last five years . . . .
>
> 73
> Roy Kersey
> KI4HAG
>
>
> [Non-text portions of this message have been removed]
>

24081. Re: Sad for my TS-820... need spare

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 01:36:48 UTC
From: af4at2
Topic: 24071 Message: 24081

HELLO
I have the bandswitch, Still in the tank circuit. I can send it after Christmas when I get the time to take it apart.
Just pay shipping.
Jim AF4AT

--- In TS-520_820_530_830@yahoogroups.com, Andrea Liverani <andrealiverani@...> wrote:
>
>
> At least i have found the problem of my ts-820.
> The bandswitch inside the PA tank has burned and irreparable contacts
> on 20meters band.
> I need a working bandswitch in order to repair my radio.
>
> The first question is if the bandswitch is the same of the other hybrids
> (i don't' think so because 530 and 830 have warc bands also), but maybe
> is the same on ts-520.
>
> the second question is where can i buy one ? has anybody a spare to sell?
>
> 73!
>
> --
> Scopri tuttele novità di Internet Explorer 8
> http://www.microsoft.com/italy/windows/internet-explorer/msn.aspx
>
> [Non-text portions of this message have been removed]
>

24082. TS-520 -5290SE RF FINAL BANDSWITCH

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 02:50:34 UTC
From: jsloss
Topic: 24082 Message: 24082

Still hoping to find the RF bandswitch from the final cage for a TS-520S or -SE. Parts from a -520 will not work as this rig does not have 160m

Thank you,

Joe k7mks

[Non-text portions of this message have been removed]

24083. Re: [TS-520_820_530_830] kenwood 830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 03:55:49 UTC
From: John Davidson
Topic: 24061 Message: 24083

While you are working on this problem...Just get some CW QSOs going. You might run into me on the air that way !

--- On Sun, 12/20/09, Dave ve3wej <ve3wej@...> wrote:

gain up??? microphone ok, can you test on another rig???

----- Original Message -----
From: "mwhod" <mwhodges@gmail. com>
To: <TS
>I have a kenwood 830, that transmits fine in cw, full power out, but in
>voice it will not do a thing, i wonder if anyone has experienced this
>problem and could advise me, i would appreciate any help. thanks name here
>is mike
>
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

24084. Re: [TS-520_820_530_830] TS-520 -5290SE RF FINAL BANDSWITCH

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 05:50:03 UTC
From: Chris and Alex
Topic: 24082 Message: 24084

Hi Joe,

There's a UK ebay seller called Hifissb. He's always got a lot of Kenwood
parts listed. It might be worth sending him an email to see what he's got.
I've used him before, he's ok.

Seasons Greetings,
Chris

2009/12/22 jsloss <k7mks@...>

>
>
> Still hoping to find the RF bandswitch from the final cage for a TS-520S or
> -SE. Parts from a -520 will not work as this rig does not have 160m
>
> Thank you,
>
> Joe k7mks
>
> [Non-text portions of this message have been removed]
>
>
>

[Non-text portions of this message have been removed]

24085. Re: [TS-520_820_530_830] TS-520 -5290SE RF FINAL BANDSWITCH

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 07:19:55 UTC
From: jsloss
Topic: 24082 Message: 24085

I sent him an email. Thanks Chris and Merry Christmas

Joe

24086. RE: [TS-520_820_530_830] TS-520 -5290SE RF FINAL BANDSWITCH

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 08:18:26 UTC
From: Andrea Liverani
Topic: 24082 Message: 24086

I can answer for U. I have already made an inquiry , they have the bandswitch for ts-520S
i have found one for my 820, so you can pick up the one from hifissb ;)
Merry Christmas.

To: TS-520_820_530_830@yahoogroups.com
From: k7mks@...
Date: Mon, 21 Dec 2009 23:19:55 -0800
Subject: Re: [TS-520_820_530_830] TS-520 -5290SE RF FINAL BANDSWITCH

I sent him an email. Thanks Chris and Merry Christmas

Joe

---
25 Gigabyte per le tue foto online
http://www.windowslive.it/foto.aspx

[Non-text portions of this message have been removed]

24087. RE: [TS-520_820_530_830] Digest Number 2787

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 12:31:20 UTC
From: Sulaiman Abdullah
Topic: 24074 Message: 24087

If you can, use a variac to bring up the voltage slowly.

If you don't have a variac start with a filament lamp in series with the main ac supply,

it will reduce the likelyhood and extent of damage.

Hi All,

Several years ago, about 2004, I bought a working TS-830S from a ham in Texas. I don't have the emails we exchanged at that time any more, so I don't know what he changed or worked on in the radio, if anything. I had planned to get my General ticket then, but just got around to doing it a few weeks ago. I'm hoping to get the station set up after Christmas. With the discussion about changing the various caps I just read, I'm wondering if I need to do anything besides just plug in the radio and see if it works. It's been boxed up for the last five years . . . .

Got more than one Hotmail account? Save time by linking them together
http://clk.atdmt.com/UKM/go/186394591/direct/01/

[Non-text portions of this message have been removed]

24088. Re: kenwood 830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 13:32:41 UTC
From: mwhod
Topic: 24061 Message: 24088

i have another rig right beside it, have checked everything i know to check, mic works fine on other rig, thanks

--- In TS-520_820_530_830@yahoogroups.com, John Davidson <k8jd@...> wrote:
>
> While you are working on this problem...Just get some CW QSOs going. You might run into me on the air that way !
>
> --- On Sun, 12/20/09, Dave ve3wej <ve3wej@...> wrote:
>
>
>
>
>
>
>
>
> gain up??? microphone ok, can you test on another rig???
>
> ----- Original Message -----
> From: "mwhod" <mwhodges@gmail. com>
> To: <TS
> >I have a kenwood 830, that transmits fine in cw, full power out, but in
> >voice it will not do a thing, i wonder if anyone has experienced this
> >problem and could advise me, i would appreciate any help. thanks name here
> >is mike
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> [Non-text portions of this message have been removed]
>

24089. So.. who's the king of hybrids?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 13:59:40 UTC
From: Andrea Liverani
Topic: 24089 Message: 24089

I like 520 for it's minimal look and semplicity.

520S/SE for 160 meters and several improovements.

TS-820 is the heaviest and definitely the flagship of the lot .

530 it's said to have a quiet receiver , good performance and warc

And 830 is the latest and more sophisticated hybrid produced by kenwood
even if is small and light in comparison with the previous models...

if i have just to save one of them , would be a very difficult choice...

and for u?

_____
25 Gigabyte per le tue foto online
http://www.windowslive.it/foto.aspx

[Non-text portions of this message have been removed]

24090. Re: [TS-520_820_530_830] Re: kenwood 830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 15:10:31 UTC
From: Don Thomas
Topic: 24061 Message: 24090

Try reseating any plug connectors in line with the mic jack. Had a TS-140 one time the mic audio quit. Reseating one of the cable connectors in audio path cured it.

Don T.

--- On Tue, 12/22/09, mwhod <mwhodges@...> wrote:

From: mwhod <mwhodges@...>
Subject: [TS-520_820_530_830] Re: kenwood 830
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, December 22, 2009, 7:32 AM

i have another rig right beside it, have checked everything i know to check, mic works fine on other rig, thanks

--- In TS-520_820_530_ 830@yahoogroups. com, John Davidson <k8jd@...> wrote:
>
> While you are working on this problem...Just get some CW QSOs going. You might run into me on the air that way !
>
> --- On Sun, 12/20/09, Dave ve3wej <ve3wej@...> wrote:
>
>
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>
> gain up??? microphone ok, can you test on another rig???
>
> ----- Original Message -----
> From: "mwhod" <mwhodges@gmail. com>
> To: <TS
> >I have a kenwood 830, that transmits fine in cw, full power out, but in
> >voice it will not do a thing, i wonder if anyone has experienced this
> >problem and could advise me, i would appreciate any help. thanks name here
> >is mike
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24091. Re: [TS-520_820_530_830] Re: kenwood 830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 15:18:38 UTC
From: Chris and Alex
Topic: 24061 Message: 24091

Also look at the mic plug. Tighten each individual female socket by bending the metal in a little with a sharp screwdriver so the contact is tighter when it's plugged in. (hope that make sense). The contacts get loose over time.

Chris

2009/12/22 Don Thomas <satranger1@...>

>
>
> Try reseating any plug connectors in line with the mic jack. Had a TS-140
> one time the mic audio quit. Reseating one of the cable connectors in audio
> path cured it.
>
> Don T.
>
>
> --- On Tue, 12/22/09, mwhod <mwhodges@... <mwhodges%40gmail.com>>
> wrote:
>
> From: mwhod <mwhodges@... <mwhodges%40gmail.com>>
> Subject: [TS-520_820_530_830] Re: kenwood 830
> To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> Date: Tuesday, December 22, 2009, 7:32 AM
>
>
>
>
>
> i have another rig right beside it, have checked everything i know to
> check, mic works fine on other rig, thanks
>
> --- In TS-520_820_530_ 830@yahoogroups. com, John Davidson <k8jd@...>
> wrote:
> >
> > While you are working on this problem...Just get some CW QSOs going. You
> might run into me on the air that way !
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> > --- On Sun, 12/20/09, Dave ve3wej <ve3wej@...> wrote:
> >
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> >
> > ----- Original Message -----
> > From: "mwhod" <mwhodges@gmail. com>
> > To: <TS
> > >I have a kenwood 830, that transmits fine in cw, full power out, but in
> > >voice it will not do a thing, i wonder if anyone has experienced this
> > >problem and could advise me, i would appreciate any help. thanks name
> here
> > >is mike
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24092. Bringing voltage up on TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 15:34:29 UTC
From: rkersey tds.net
Topic: 24092 Message: 24092

Hi All,

My apologies for failing to have an appropriate subject line on that last post . . . . where would I find a variac? Just borrow one from somebody? And start about 10 volts and then just crank up in five or ten steps?

If I were to use a "filament lamp" instead, would that just mean setting up a 100 watt bulb in series with the 830 or ???? Sorry to be so ignorant, but I guess this is how you learn . . . .

73
Roy Kersey
KI4HAG

[Non-text portions of this message have been removed]

24093. Re: Bringing voltage up on TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 16:44:20 UTC
From: w5rkl
Topic: 24092 Message: 24093

YOu can purchase one at "All Electronics" at the following link:

http://www.allelectronics.com/make-a-store/category/805/Variacs/1.html

This where I bought mine, 10amp, variable AC transformer. It works great.

A lamp wired in series with the transformer's primary windings is to determine whether or not the transformer is shorted. Use this only when you are unsure if the power transformer is shorted.

One more thing. When using a variable AC transformer to power up a radio that has sat for a long time, years, and the radio has tubes, remove the tubes before applying power. Once you are sure the radio powered up fine without the tubes, turn the radio OFF and insert the tubes and apply power.

Any tube that shows a white coating anywhere on the inside of the glass envelope must be replaced. The white coating is Barium and Barium turns white when exposed to air. A white coating indicates the glass envelope is broken or crack and the tube needs to be replaced. Some tubes, such as the 6146 beam power pentode tube, may not show the white coating on the inside. Look along the base of the glass envelope and if you see white coating on the inside of the glass envelope, replace the tube. Don't even try to test the tube because the vacuum inside the tube is gone!

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "rkersey tds.net" <rkersey@...> wrote:
>
> Hi All,
>
> My apologies for failing to have an appropriate subject line on that last
> post . . . . where would I find a variac? Just borrow one from somebody?
> And start about 10 volts and then just crank up in five or ten steps?
>
> If I were to use a "filament lamp" instead, would that just mean setting up
> a 100 watt bulb in series with the 830 or ???? Sorry to be so ignorant, but
> I guess this is how you learn . . . .
>
> 73
> Roy Kersey
> KI4HAG
>
>
> [Non-text portions of this message have been removed]
>

24094. TS-440 problem, might be applicable to the Hybrids.

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 17:02:05 UTC
From: Ken
Topic: 24094 Message: 24094

Hi Guys...

I was working on my TS-440 this past weekend and found something that may be of interest to the Hybrid group.

When I finished doing the alignment I put the rig back together, hooked up all the outboard gadgets and started operating PSK-31... I didn't see any audio on the waterfall. The speaker and headphones worked OK, just no audio to the back Accessory connecter.

I started tracing the audio signal from the IF board. With the back-panel audio cable connected to the board no audio was seen but the signal was on the board with the cable dis-connected. This meant that the rig had developed a short somewhere between the IF board and the back panel connector. Couldn't see any damage to the visible parts of the cable so I removed the ATTuner to get to the back Accessory connector.

There I noticed 3 of the pins of the back-panel sub-board connector had moved back out of the connector shell and 2 of these pins (the audio line) were shorting together. After pulling the small plastic connector shell, reinserting the pins and connecting it all back together, the audio was fine all the way to the PSK interface.

While in there, I looked around and found several more pins that looked OK but were not fully seated into the connector shells; i.e. I could tug slightly on the wires at the back of the connectors and the wires (and pins) would simply come out of the connector. Reinserting them fully with needle nose pliers (until they clicked) solved the problem.

I don't know whether the wire inserting individual was having a bad day when my rig's connectors were being manufactured or not but I didn't see any indication that the connectors were at fault, just that the wires were not fully inserted into the connectors during assembly.

You might want to give your rig's connectors a good "going over" the next time you are having intermittent symptoms.

Ken - KB7H

24095. Re: kenwood 830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 17:03:53 UTC
From: w5rkl
Topic: 24061 Message: 24095

I recommend cleaning the MIC gain control using contact cleaner then rotating the MIC gain control back and forth a few times. Follow this procedure with canned air to remove any excess contact cleaner. Test the radio for proper operation in sideband.

If that doesn't fix the problem, I recommend tracing the audio signal from the microphone, starting at pin 1 on the MIC socket through the circuit path to the collector of Q21. At anytime, through the path, you loose the audio signal, back up to the last point where you had the signal and you will have found the source of the failure, the next stage after the stage you have signal. You can use an oscilloscope to do this simple test.

I recommend you using the high resolution TS-830 schematic when performing this diagnosis. Take your time and you should find the source of the problem rather quickly using this method.

One last thing. As one response stated, reseat the plugs, in this case, plug 7 on the IF UNIT.

Just some troubleshooting tips you may not have thought of.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Chris and Alex <alexandchrisp@...> wrote:
>
> Also look at the mic plug. Tighten each individual female socket by bending
> the metal in a little with a sharp screwdriver so the contact is tighter
> when it's plugged in. (hope that make sense). The contacts get loose over
> time.
>
> Chris
>
> 2009/12/22 Don Thomas <satranger1@...>
>
> >
> >
> > Try reseating any plug connectors in line with the mic jack. Had a TS-140
> > one time the mic audio quit. Reseating one of the cable connectors in audio
> > path cured it.
> >
> > Don T.
> >
> >
> > --- On Tue, 12/22/09, mwhod <mwhodges@... <mwhodges%40gmail.com>>
> > wrote:
> >
> > From: mwhod <mwhodges@... <mwhodges%40gmail.com>>

> > Subject: [TS-520_820_530_830] Re: kenwood 830
> > To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> > Date: Tuesday, December 22, 2009, 7:32 AM
> >
> >
> >
> >
> > i have another rig right beside it, have checked everything i know to
> > check, mic works fine on other rig, thanks
> >
> > --- In TS-520_820_530_ 830@yahoogroups. com, John Davidson <k8jd@>
> > wrote:
> > >
> > > While you are working on this problem...Just get some CW QSOs going. You
> > might run into me on the air that way !
> > >
> > > --- On Sun, 12/20/09, Dave ve3wej <ve3wej@> wrote:
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > gain up??? microphone ok, can you test on another rig???
> > >
> > > ----- Original Message -----
> > > From: "mwhod" <mwhodges@gmail. com>
> > > To: <TS
> > > >I have a kenwood 830, that transmits fine in cw, full power out, but in
> > > >voice it will not do a thing, i wonder if anyone has experienced this
> > > >problem and could advise me, i would appreciate any help. thanks name
> > here
> > > >is mike
> > > >
> > > >
> > > >
> > > > ------------ --------- --------- ------
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> > > Yahoo! Groups Links
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24096. Dumb tuning question for a 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 05:50:17 UTC
From: doug_t@rocketmail.com
Topic: 24096 Message: 24096

Hello, new guy here. Just got my general ticket and a 520s.

When adjusting the Drive with the mode switch at ALC and stand-by switch in send, instructions say to adjust for maximum meter deflection. My question is do I adjust for maximum deflection on the ALC scale, or the entire meter travel? (Well not to peg it of course)

Thanks in advance.

24097. Lost my VOX - TS-520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 13:08:31 UTC
From: Peter
Topic: 24097 Message: 24097

Hi All: I had been suffering from delayed T/R switching and it was suggested that I clean the contacts. When I started I discovered that one of the previous owners had soldered the board connectors which made the task difficult. I cleaned the contacts and reinserted the relay. when I fired up the rig the slow relay was fixed, but the VOX doesn't work. totally dead. I inspected visually but couldn't see any broken wires. Ant suggestions to trouble shoot would be appreciated.
73, Pete N1TCH

24098. TS-520 VFO tuning starting to get rough

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 17:06:36 UTC
From: John
Topic: 24098 Message: 24098

I'm starting to feel a bit of roughness in the VFO tuning control. I've cleaned and lubricated the gears and bearing in the front and that's about as far as I've gone.

Does anyone have this problem? If so, how did you correct it? Will I have to remove the entire VFO unit to make a repair.

Thanks everyone. And my sincere wishes for a happy and joyous holiday season.

John, W8QFN

24099. RE: [TS-520_820_530_830] Dumb tuning question for a 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 18:17:02 UTC
From: Rick Klinge
Topic: 24096 Message: 24099

http://www.kg6haf.com/kenwood.html

73's

Rick

KC5UIW

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of
doug_t@...
Sent: Monday, December 21, 2009 11:50 PM - MGMT
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Dumb tuning question for a 520s

Hello, new guy here. Just got my general ticket and a 520s.

When adjusting the Drive with the mode switch at ALC and stand-by switch in
send, instructions say to adjust for maximum meter deflection. My question
is do I adjust for maximum deflection on the ALC scale, or the entire meter
travel? (Well not to peg it of course)

Thanks in advance.

[Non-text portions of this message have been removed]

24100. RE: [TS-520_820_530_830] So.. who's the king of hybrids?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 18:36:28 UTC
From: Dick Merryman
Topic: 24089 Message: 24100

I agree with you - it's a difficult choice. I have a TS-520S and a TS-830S and love them both. I suppose that if the house was burning down and I could only save one radio it would be my.....FT-1000MP!

Happy holidays and best new year,

-Dick-
N3XRU

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Andrea Liverani
Sent: Tuesday, December 22, 2009 6:00 AM
To: ts-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] So.. who's the king of hybrids?

I like 520 for it's minimal look and semplicity.

520S/SE for 160 meters and several improovements.

TS-820 is the heaviest and definitely the flagship of the lot .

530 it's said to have a quiet receiver , good performance and warc

And 830 is the latest and more sophisticated hybrid produced by kenwood even if is small and light in comparison with the previous models...

if i have just to save one of them , would be a very difficult choice...

and for u?

_____
25 Gigabyte per le tue foto online
http://www.windowsl <http://www.windowslive.it/foto.aspx> ive.it/foto.aspx

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[Non-text portions of this message have been removed]

24101. Re: Dumb tuning question for a 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 18:45:24 UTC
From: doug_t@rocketmail.com
Topic: 24096 Message: 24101

Thank you for the link Rick, I have already downloaded the manual and also have the tuning instructions from KG6HAF. Like I say, it's a dumb question, but not addressed directly in either instruction set.

Do I peak the Drive for maximum deflection *on the ALC* scale or the other scales on the meter?

Doug
KD0JSS

--- In TS-520_820_530_830@yahoogroups.com, "Rick Klinge" <rick@...> wrote:
>
> http://www.kg6haf.com/kenwood.html
>
>
>
> 73's
>
>
>
> Rick
>
> KC5UIW
>
>
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of
> doug_t@...
> Sent: Monday, December 21, 2009 11:50 PM - MGMT
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Dumb tuning question for a 520s
>
>
>
>
>
> Hello, new guy here. Just got my general ticket and a 520s.
>
> When adjusting the Drive with the mode switch at ALC and stand-by switch in
> send, instructions say to adjust for maximum meter deflection. My question
> is do I adjust for maximum deflection on the ALC scale, or the entire meter
> travel? (Well not to peg it of course)
>
> Thanks in advance.
>

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24102. RE: [TS-520_820_530_830] Re: Dumb tuning question for a 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 19:15:15 UTC
From: Dick Merryman
Topic: 24096 Message: 24102

During tuning, peak the drive for maximum deflection on the entire meter. Ignore the ALC scale. If you cannot get good deflection then increase the CAR control and re-peak. The ALC scale has no meaning when the transceiver is in TUN mode.

73,

-Dick-
N3XRU

_____

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of doug_t@...
Sent: Tuesday, December 22, 2009 10:45 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: Dumb tuning question for a 520s

Thank you for the link Rick, I have already downloaded the manual and also have the tuning instructions from KG6HAF. Like I say, it's a dumb question, but not addressed directly in either instruction set.

Do I peak the Drive for maximum deflection *on the ALC* scale or the other scales on the meter?

Doug
KD0JSS

--- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com> 830@yahoogroups.com, "Rick Klinge" <rick@...> wrote:
>
> http://www.kg6haf. <http://www.kg6haf.com/kenwood.html> com/kenwood.html
>
>
>
> 73's
>
>
>
> Rick
>
> KC5UIW
>
>
>
> From: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>

830@yahoogroups.com
> [mailto:TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com] On Behalf Of
> doug_t@...
> Sent: Monday, December 21, 2009 11:50 PM - MGMT
> To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
> Subject: [TS-520_820_530_830] Dumb tuning question for a 520s
>
>
>
>
>
> Hello, new guy here. Just got my general ticket and a 520s.
>
> When adjusting the Drive with the mode switch at ALC and stand-by switch
in
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> is do I adjust for maximum deflection on the ALC scale, or the entire
meter
> travel? (Well not to peg it of course)
>
> Thanks in advance.
>
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[Non-text portions of this message have been removed]

24103. Re: Lost my VOX - TS-520SE

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 19:34:46 UTC
From: w5rkl
Topic: 24097 Message: 24103

Hello Pete,

I assume you have the VOX switch turned ON.

Insert a mono 1/4" plug connected to a CW key or keyer into the rear panel CW socket. Make sure the CW key or keyer is not pressed or keyed.

Tune the 520 up for maximum RF output into a dummy load.

Set the MODE switch to CW.

Set the CAR control between 9 and 10 o'clock.

Set VOX to "ON".

Press the CW key or press one of the keyer paddles.

What happens when you do this? Does the 520 produce the CW sidetone and place the 520 in transmit?

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Peter" <nitchman@...> wrote:
>
> Hi All: I had been suffering from delayed T/R switching and it was suggested that I clean the contacts. When I started I discovered that one of the previous owners had soldered the board connectors which made the task difficult. I cleaned the contacts and reinserted the relay. when I fired up the rig the slow relay was fixed, but the VOX doesn't work. totally dead. I inspected visually but couldn't see any broken wires. Ant suggestions to trouble shoot would be appreciated.
> 73, Pete N1TCH
>

24104. RE: [TS-520_820_530_830] Re: Dumb tuning question for a 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 19:41:07 UTC
From: Rick Klinge
Topic: 24096 Message: 24104

Hi Doug,

I'm thinking it is the ALC meter.

I use K4EAA's instructions he has posted at
http://www.k4eaa.com/tune-up.htm.

Hope that helps some.

73's

Rick

KC5UIW

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of
doug_t@...
Sent: Tuesday, December 22, 2009 12:45 PM - MGMT
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: Dumb tuning question for a 520s

Thank you for the link Rick, I have already downloaded the manual and also
have the tuning instructions from KG6HAF. Like I say, it's a dumb question,
but not addressed directly in either instruction set.

Do I peak the Drive for maximum deflection *on the ALC* scale or the other
scales on the meter?

Doug
KD0JSS

--- In TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com> , "Rick Klinge" <rick@...>
wrote:
>
> http://www.kg6haf.com/kenwood.html
>
>
>
> 73's
>
>
>
> Rick
>
> KC5UIW
>

>
>
> From: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
> [mailto:TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of
> doug_t@...
> Sent: Monday, December 21, 2009 11:50 PM - MGMT
> To: TS-520_820_530_830@yahoogroups.com
<mailto:TS-520_820_530_830%40yahoogroups.com>
> Subject: [TS-520_820_530_830] Dumb tuning question for a 520s
>
>
>
>
>
> Hello, new guy here. Just got my general ticket and a 520s.
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> When adjusting the Drive with the mode switch at ALC and stand-by switch
in
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> is do I adjust for maximum deflection on the ALC scale, or the entire
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> travel? (Well not to peg it of course)
>
> Thanks in advance.
>
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24105. Re: Dumb tuning question for a 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 19:45:50 UTC
From: doug_t@rocketmail.com
Topic: 24096 Message: 24105

Thank you Dick. That's what I assumed, but wanted to make certain before I went and stressed an old radio.

Doug
KD0JSS

--- In TS-520_820_530_830@yahoogroups.com, "Dick Merryman" <dicko@...> wrote:
>
> During tuning, peak the drive for maximum deflection on the entire meter.
> Ignore the ALC scale. If you cannot get good deflection then increase the
> CAR control and re-peak. The ALC scale has no meaning when the transceiver
> is in TUN mode.
>
> 73,
>
> -Dick-
> N3XRU
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of
> doug_t@...
> Sent: Tuesday, December 22, 2009 10:45 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: Dumb tuning question for a 520s
>
>
>
>
> Thank you for the link Rick, I have already downloaded the manual and also
> have the tuning instructions from KG6HAF. Like I say, it's a dumb question,
> but not addressed directly in either instruction set.
>
> Do I peak the Drive for maximum deflection *on the ALC* scale or the other
> scales on the meter?
>
> Doug
> KD0JSS
>
> --- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> 830@yahoogroups.com, "Rick Klinge" <rick@> wrote:
> >
> > http://www.kg6haf. <http://www.kg6haf.com/kenwood.html> com/kenwood.html
> >

> >
> >
> > 73's
> >
> >
> >
> > Rick
> >
> > KC5UIW
> >
> >
> >
> > From: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> 830@...m
> > [mailto:TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> 830@yahoogroups.com] On Behalf Of
> > doug_t@
> > Sent: Monday, December 21, 2009 11:50 PM - MGMT
> > To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> 830@yahoogroups.com
> > Subject: [TS-520_820_530_830] Dumb tuning question for a 520s
> >
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> >
> >
> > Hello, new guy here. Just got my general ticket and a 520s.
> >
> > When adjusting the Drive with the mode switch at ALC and stand-by switch
> in
> > send, instructions say to adjust for maximum meter deflection. My question
> > is do I adjust for maximum deflection on the ALC scale, or the entire
> meter
> > travel? (Well not to peg it of course)
> >
> > Thanks in advance.
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> [Non-text portions of this message have been removed]

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24106. Re: [TS-520_820_530_830] Bringing voltage up on TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 19:56:08 UTC
From: Chris and Alex
Topic: 24092 Message: 24106

If the set was working before it was packed away I think this is going a bit far. It isn't as though you don't know the history of the rig. I'd just blow the spiders out and fire it up.

Chris

2009/12/22 rkersey tds.net <rkersey@...>

>
>
> Hi All,
>
> My apologies for failing to have an appropriate subject line on that last
> post . . . . where would I find a variac? Just borrow one from somebody?
> And start about 10 volts and then just crank up in five or ten steps?
>
> If I were to use a "filament lamp" instead, would that just mean setting up
> a 100 watt bulb in series with the 830 or ???? Sorry to be so ignorant, but
> I guess this is how you learn . . . .
>
> 73
> Roy Kersey
> KI4HAG
>
> [Non-text portions of this message have been removed]
>
>
>

[Non-text portions of this message have been removed]

24107. RE: [TS-520_820_530_830] Bringing voltage up on TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 20:02:35 UTC
From: Dick Merryman
Topic: 24092 Message: 24107

Don't worry about the spiders. If one of the electrolytics explodes it will take out all of the spiders.

-Dick-
N3XRU

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Chris and Alex
Sent: Tuesday, December 22, 2009 11:56 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Bringing voltage up on TS-830S

If the set was working before it was packed away I think this is going a bit far. It isn't as though you don't know the history of the rig. I'd just blow the spiders out and fire it up.

Chris

2009/12/22 rkersey tds.net <rkersey@...>

>
>
> Hi All,
>
> My apologies for failing to have an appropriate subject line on that
> last post . . . . where would I find a variac? Just borrow one from
somebody?
> And start about 10 volts and then just crank up in five or ten steps?
>
> If I were to use a "filament lamp" instead, would that just mean
> setting up a 100 watt bulb in series with the 830 or ???? Sorry to be
> so ignorant, but I guess this is how you learn . . . .
>
> 73
> Roy Kersey
> KI4HAG
>
> [Non-text portions of this message have been removed]
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>

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Yahoo! Groups Links

24108. Re: [TS-520_820_530_830] Dumb tuning question for a 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 20:08:56 UTC
From: Chris and Alex
Topic: 24096 Message: 24108

Adjust for max deflection using the drive control and use the car control to leave the needle at the top end of the meter scale when the drive is peaked, not on the peg but right over to the end of the scale. Just use the ALC part of the meter scale when you transmit so you don't overmodulate the carrier. Then set the drive control at zero before dipping the plate current. Most importantly, don't leave the send switch flipped for more then 5 seconds or so at a time.

Chris

2009/12/22 doug_t@... <doug_t@rocketmail.com>

>
>
> Hello, new guy here. Just got my general ticket and a 520s.
>
> When adjusting the Drive with the mode switch at ALC and stand-by switch in
> send, instructions say to adjust for maximum meter deflection. My question
> is do I adjust for maximum deflection on the ALC scale, or the entire meter
> travel? (Well not to peg it of course)
>
> Thanks in advance.
>
>
>

[Non-text portions of this message have been removed]

24109. Re: [TS-520_820_530_830] Bringing voltage up on TS-830S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 20:23:08 UTC
From: Chris and Alex
Topic: 24092 Message: 24109

If you took it up on a variac I'm not sure you'd get any indication that an
electrolytic was going to fail until it went bang. I'd still want to clean
it out before anything else, including the spiders.

Chris

2009/12/22 Dick Merryman <dicko@...>

>
>
> Don't worry about the spiders. If one of the electrolytics explodes it will
> take out all of the spiders.
>
> -Dick-
> N3XRU
>
>
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> [mailto:TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>]
> On Behalf Of Chris and Alex
> Sent: Tuesday, December 22, 2009 11:56 AM
> To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> Subject: Re: [TS-520_820_530_830] Bringing voltage up on TS-830S
>
> If the set was working before it was packed away I think this is going a
> bit
> far. It isn't as though you don't know the history of the rig. I'd just
> blow
> the spiders out and fire it up.
>
> Chris
>
> 2009/12/22 rkersey tds.net <rkersey@... <rkersey%40tds.net>>
>
> >
> >
> > Hi All,
> >
> > My apologies for failing to have an appropriate subject line on that
> > last post . . . . where would I find a variac? Just borrow one from
> somebody?
> > And start about 10 volts and then just crank up in five or ten steps?
> >
> > If I were to use a "filament lamp" instead, would that just mean

> > setting up a 100 watt bulb in series with the 830 or ???? Sorry to be
> > so ignorant, but I guess this is how you learn . . . .
> >
> > 73
> > Roy Kersey
> > KI4HAG
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
>
> [Non-text portions of this message have been removed]
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

[Non-text portions of this message have been removed]

24110. Re: [TS-520_820_530_830] Dumb tuning question for a 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 21:35:10 UTC
From: martin
Topic: 24096 Message: 24110

Hi Guys. I don't think that this is correct. While the TS-520 manual doesn't say, the manual to my TS-530S does indicate that when adjusting the drive control for peak, the reading should be kept within the ALC scale. It says that if the meter pegs or goes outside of the ALC scale, to turn down the CAR control.

I am sure that Mike (W5RKL) could give a more definitive answer.

TTYL

Chris and Alex wrote:
> Adjust for max deflection using the drive control and use the car control to
> leave the needle at the top end of the meter scale when the drive is peaked,
> not on the peg but right over to the end of the scale. Just use the ALC part
> of the meter scale when you transmit so you don't overmodulate the carrier.
> Then set the drive control at zero before dipping the plate current. Most
> importantly, don't leave the send switch flipped for more then 5 seconds or
> so at a time.
>
> Chris

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

24111. Re: [TS-520_820_530_830] Dumb tuning question for a 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 22:03:29 UTC
From: Lou Blasco
Topic: 24096 Message: 24111

Hi Chris,

One part of your instructions is a little confusing to me. I followed them just to make sure but they don't give the correct result. You can't turn the DRIVE to zero and expect plate current or RF.

Here's what I do.

First step - switch to TUNE and set meter to ALC. Adjust the DRIVE control for max indication. If the needle goes full scale then back off the CAR control until the needle is somewhere above 2/3 of full scale. The actual value is not important we just want to see the peak.

Leave the DRIVE control alone now. If you turn it to zero you get no RF and no plate current.

Switch the METER to Ip and use you PLATE control to dip the plate current.

Now switch to CW and use your PLATE control to dip the plate current again. Use your LOAD control to get the plate current to the desired level. I like to run my radio at 225mA.

The LOAD and PLATE controls interact so you might need to go back over the adjustments a second time.

Lou
VK3ALB

At 07:08 AM 23/12/2009, you wrote:
>Adjust for max deflection using the drive control and use the car control to
>leave the needle at the top end of the meter scale when the drive is peaked,
>not on the peg but right over to the end of the scale. Just use the ALC part
>of the meter scale when you transmit so you don't overmodulate the carrier.
>Then set the drive control at zero before dipping the plate current. Most
>importantly, don't leave the send switch flipped for more then 5 seconds or
>so at a time.
>
>Chris

24112. Re: [TS-520_820_530_830] wanted a 520 face

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 22:27:32 UTC
From: mark helinski
Topic: 24065 Message: 24112

have whole rig aski 185.00 plusshipping
--- On Sun, 12/20/09, kevin <kmx888@...> wrote:

From: kevin <kmx888@...>
Subject: [TS-520_820_530_830] wanted a 520 face
To: TS-520_820_530_830@yahoogroups.com
Date: Sunday, December 20, 2009, 9:45 PM

I am looking for a very clean 520 face. Please reply offline.
Kevin
KD0ILM

[Non-text portions of this message have been removed]

24113. Re: [TS-520_820_530_830] TS520 parts

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 22:39:38 UTC
From: mark helinski
Topic: 13975 Message: 24113

need the relays mark h
marksbuffalobills@... how much for whole thing

--- On Thu, 12/17/09, w0szv <skip4450@...> wrote:

From: w0szv <skip4450@...>
Subject: [TS-520_820_530_830] TS520 parts
To: TS-520_820_530_830@yahoogroups.com
Date: Thursday, December 17, 2009, 8:22 PM

I have a TS-520 that I am parting out. Anyone needing parts just let me know what you need and make an offer that will cover a fair price on the part plus shipping. thanks Eldon w0szv

[Non-text portions of this message have been removed]

24114. Re: Dumb tuning question for a 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 22:53:07 UTC
From: w5rkl
Topic: 24096 Message: 24114

The ALC meter scale is not used in TUNE mode.

The ALC meter is used as a tuning aide ONLY in TUNE mode.

The ALC meter indication is the peaking of the final tube grid drive (grid current flowing in the final tube grids). The ALC meter setting is much more accurate than the IP meter setting.

Disregard the ALC meter scale during TUNE mode adjustments, it's not used! The ALC scale is only use in USB or LSB mode.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@...> wrote:
>
> Hi Guys. I don't think that this is correct. While the TS-520 manual
> doesn't say, the manual to my TS-530S does indicate that when
> adjusting the drive control for peak, the reading should be kept
> within the ALC scale. It says that if the meter pegs or goes outside
> of the ALC scale, to turn down the CAR control.
>
> I am sure that Mike (W5RKL) could give a more definitive answer.
>
> TTYL
>
> Chris and Alex wrote:
> > Adjust for max deflection using the drive control and use the car control to
> > leave the needle at the top end of the meter scale when the drive is peaked,
> > not on the peg but right over to the end of the scale. Just use the ALC part
> > of the meter scale when you transmit so you don't overmodulate the carrier.
> > Then set the drive control at zero before dipping the plate current. Most
> > importantly, don't leave the send switch flipped for more then 5 seconds or
> > so at a time.
> >
> > Chris
>
> --
> CUL8R
>
> KBOHAE kb0hae@... Martin Campbell
>
> A Satisfied Sidux Linux user! To get Sidux go to:
> www.sidux.com/index.html
> "Protect your digital freedom and privacy, eliminate DRM, learn more
> at http://www.defectivebydesign.org/what_is_drm"

>

24115. Re: Dumb tuning question for a 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-23 00:07:53 UTC
From: doug_t@rocketmail.com
Topic: 24096 Message: 24115

Thanks to all. I guess it wasn't quite as dumb of a question as I thought. I've been using W5RKL Mike's (and Dick's) advice today. Nothing smoked, I made my first three contacts and even got a compliment or two on my signal.

Appreciate the great list.

Doug KD0JSS

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> The ALC meter scale is not used in TUNE mode.
>
> The ALC meter is used as a tuning aide ONLY in TUNE mode.
>
> The ALC meter indication is the peaking of the final tube grid drive (grid current flowing in the final tube grids). The ALC meter setting is much more accurate than the IP meter setting.
>
> Disregard the ALC meter scale during TUNE mode adjustments, it's not used! The ALC scale is only use in USB or LSB mode.
>
>
>
> 73s
> Mike W5RKL
>
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@> wrote:
> >
> > Hi Guys. I don't think that this is correct. While the TS-520 manual
> > doesn't say, the manual to my TS-530S does indicate that when
> > adjusting the drive control for peak, the reading should be kept
> > within the ALC scale. It says that if the meter pegs or goes outside
> > of the ALC scale, to turn down the CAR control.
> >
> > I am sure that Mike (W5RKL) could give a more definitive answer.
> >
> > TTYL
> >
> > Chris and Alex wrote:
> > > Adjust for max deflection using the drive control and use the car control to
> > > leave the needle at the top end of the meter scale when the drive is peaked,
> > > not on the peg but right over to the end of the scale. Just use the ALC part

> > > of the meter scale when you transmit so you don't overmodulate the carrier.
> > > Then set the drive control at zero before dipping the plate current. Most
> > > importantly, don't leave the send switch flipped for more then 5 seconds or
> > > so at a time.
> > >
> > > Chris
> >
> > --
> > CUL8R
> >
> > KBOHAE kb0hae@ Martin Campbell
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> >
>

24116. generator board diodes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-22 23:55:04 UTC
From: rumseyjustin
Topic: 24116 Message: 24116

Can some one help me identify the type of diodes i need to replace
on the generator board of my 520 there the D 12345678 on the cuirciut
but what type are they and can I buy them at the local
electronic shop?????

24117. Re: [TS-520_820_530_830] generator board diodes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-23 02:59:38 UTC
From: Dave ve3wej
Topic: 24116 Message: 24117

service manual available at http://www.n6wk.com/kenwood/ just make sure you grab the correct model 520 or 520s or 520se...

----- Original Message -----
From: "rumseyjustin" <rumseyjustin@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, December 22, 2009 6:55 PM
Subject: [TS-520_820_530_830] generator board diodes

> Can some one help me identify the type of diodes i need to replace
> on the generator board of my 520 there the D 12345678 on the cuirciut
> but what type are they and can I buy them at the local
> electronic shop?????
>
>
>
> ------------------------------------
>
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24118. Re: generator board diodes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-23 03:28:01 UTC
From: w5rkl
Topic: 24116 Message: 24118

The diodes you are speaking of, D1 thru D8 on the Generator Unit board, are 1N60 40VDC Germanium diodes and they are available from Newark Electronics for 33 cents each. Newark Electronics part number is 39C4519.

http://www.newark.com/jsp/search/productdetail.jsp?SKU=39C4519&CMP=AFC-TL10000001

Diodes D1 thru D4 on the Generator Unit board are the transmitter's balance modulator diodes. D5 thru D8, also on the Generator Unit board, are the receiver's balance detector diodes.

What symptoms are you experiencing that points to the replacement of all 8 of these diodes?

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "rumseyjustin" <rumseyjustin@...> wrote:
>
> Can some one help me identify the type of diodes i need to replace
> on the generator board of my 520 there the D 12345678 on the cuirciut
> but what type are they and can I buy them at the local
> electronic shop?????
>

24119. Re: [TS-520_820_530_830] Dumb tuning question for a 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-23 05:36:54 UTC
From: Chris and Alex
Topic: 24096 Message: 24119

Sorry for the confusion. My fault. The second reference to drive in my post
should have read "load". ie after peaking the alc with the drive control,
dip the plate current with the load control set to zero. Otherwise I find
that the dip can be too shallow to see easily. Then I work up the load and
dip each time to get max output.

Chris

2009/12/22 martin <kb0hae@...m>

>
>
> Hi Guys. I don't think that this is correct. While the TS-520 manual
> doesn't say, the manual to my TS-530S does indicate that when
> adjusting the drive control for peak, the reading should be kept
> within the ALC scale. It says that if the meter pegs or goes outside
> of the ALC scale, to turn down the CAR control.
>
> I am sure that Mike (W5RKL) could give a more definitive answer.
>
> TTYL
>
> Chris and Alex wrote:
> > Adjust for max deflection using the drive control and use the car control
> to
> > leave the needle at the top end of the meter scale when the drive is
> peaked,
> > not on the peg but right over to the end of the scale. Just use the ALC
> part
> > of the meter scale when you transmit so you don't overmodulate the
> carrier.
> > Then set the drive control at zero before dipping the plate current. Most
> > importantly, don't leave the send switch flipped for more then 5 seconds
> or
> > so at a time.
> >
> > Chris
>
> --
> CUL8R
>
> KBOHAE kb0hae@... <kb0hae%40mchsi.com> Martin Campbell
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>
>

[Non-text portions of this message have been removed]

24120. 12 Pin Jones Connectors

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-24 00:51:15 UTC
From: Aaron
Topic: 24120 Message: 24120

I got the TS-900 today. It did not come with 12 pin jones cable that runs from teh PS to the rig.

Anyone know of a good source to purchase these so I can get this baby fired up?

Aaron
KD4GSL

24121. Re: 12 Pin Jones Connectors

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-24 00:53:15 UTC
From: Aaron
Topic: 24120 Message: 24121

Almost forgot... I need a male and a female.

Aaron

--- In TS-520_820_530_830@yahoogroups.com, "Aaron" <wm.aaron.lamb@...> wrote:
>
> I got the TS-900 today. It did not come with 12 pin jones cable that runs from teh PS to the rig.
>
> Anyone know of a good source to purchase these so I can get this baby fired up?
>
> Aaron
> KD4GSL
>

24122. Re: [TS-520_820_530_830] 12 Pin Jones Connectors

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-24 01:13:41 UTC
From: Marty Falk
Topic: 24120 Message: 24122

Try Bry Carling on the boat anchor net on Yahoo group.
Marty
KI4IQZ

Aaron wrote:
>
> I got the TS-900 today. It did not come with 12 pin jones cable that
> runs from teh PS to the rig.
>
> Anyone know of a good source to purchase these so I can get this baby
> fired up?
>
> Aaron
> KD4GSL
>
>

24123. TS820S CW Filter needed

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-24 02:22:06 UTC
From: aa2yv
Topic: 24123 Message: 24123

I just picked up a TS-820S on Ebay. Nice condx, but no filters and no digital readout module. I need first the CW filter: YG-88C. Anybody have one in working order to unload?
73's, Bill/AA2YV/Rochester NY

24124. Re: So.. who's the king of hybrids?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-24 03:35:16 UTC
From: itsbutme
Topic: 24089 Message: 24124

Hi Andrea.

Now you've asked a touchy question.

While I've never had one,
the most popular hybrid amateur transceiver seems to me to be
the Kenwood TS-520S.

There are several reasons for this.

It is a simple radio to work on and to work with.

It is very forgiving.

It sounds good to the ears of any listeners
on either side of a radio conversation.

It has a robust chassis.

It looks good, and has no distracting extra functions.

It is an honest radio which has stood the test of time.

It works well with a plethora of antenna and aerial types.

Parts to keep it going are relatively easy to get.

It's stood the test of time!

(That's not to say it will be the best radio for you!)

.....

However, my own choice in the Kenwood series turned out to be
the Kenwood TS-820.

The reasons for my choice were as follows:-

It was readily available.

It was a major challenge to fix because:-
it was poorly treated by its previous owners
it had the digital electronics in it's DG-1 frequency counter
it had potential for further improvement to it's audio in receive and
transmit
it had integrated circuits
it had transistors
it had compromised diodes in its detector
it had compromised valves (although I found this out later)

it had old dried out capacitors (which I half suspected)
it had single layer parts component boards
it had corroded connectors and dry solder joints
it had burned out lamp bulbs
it had missing rubber feet
it had dangerous power supply design (although I found this out later)
it had rust and corrosion visible
it had dents and scratches visible
it had a loosened house power plug
it had screws missing
it had compromised earthing for its electronics circuitry (by design)
but then I was looking for a good challenge when I bought it.

It was a solid project which I anticipated would become a "work of art"
for me that I could play with when I had to keep myself awake at nights
while I was looking after my severely disabled wife, and listening to
her breathing through assisted breathing equipment without my having to
be in the room with her while she slept.

The TS-820 was all the TS520 ever could be for me but it presented me
with a greater set of challenges.

I am not sorry I bought it, even though I still haven't got it running
up to my expectations yet.

.....

The other choice which I made was for a Yaesu FT102.
This is a hybrid amateur radio transceiver which is much superior to all
Kenwood hybrid transceivers in almost every way.

It has some failings though.

Its failings are it uses unsealed relays and is too complicated to work
on and with, when you compare it to the Kenwood hybrids, Also its gauges
are too small for me to see properly without my glasses, as and when I
need to read from them.

.....\
...

So for all the reasons mentioned, and if usage and time is the best
gauge to test with, and if you keep to the rule of comparing unmodified
rigs, I don't think you can confidently say any hybrid rig is overall
better than any other, but after modification and usage, there are
individual radios which are remarkably better performers or have stood
the test of time because of their simplicity and solidarity in build.
After all it is "horses for courses" and "a king is only king of his own
kingdom!"

It's up to the assessor to assess before he can judge.

Each assessor has to assess within his own parameters.

I hope this helps.
73 de Bob Daymond VK4GCA (from the Gold Coast of Australia)

--- In TS-520_820_530_830@yahoogroups.com, Andrea Liverani
<andrealiverani@...> wrote:
>
>
>
> I like 520 for it's minimal look and semplicity.
>
> 520S/SE for 160 meters and several improovements.
>
> TS-820 is the heaviest and definitely the flagship of the lot .
>
> 530 it's said to have a quiet receiver , good performance and warc
>
> And 830 is the latest and more sophisticated hybrid produced by
kenwood
> even if is small and light in comparison with the previous models...
>
> if i have just to save one of them , would be a very difficult
choice...
>
> and for u?
>
>
>
> --

[Non-text portions of this message have been removed]

24125. Re: [TS-520_820_530_830] Re: So.. who's the king of hybrids?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-24 03:57:43 UTC
From: Ruben Echevarria
Topic: 24089 Message: 24125

IMHO The TS830S .... Hands down .... Had 2 of them .... They are gone now but in good hands
 Ruben Echevarria KA2HHB
070 Club#861 30MDG#1148
10-10#33308

From: itsbutme <itsbutme@yahoo.com.au>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wed, December 23, 2009 10:35:16 PM
Subject: [TS-520_820_530_830] Re: So.. who's the king of hybrids?

Hi Andrea.

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it had transistors
it had compromised diodes in its detector
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it had dangerous power supply design (although I found this out later)
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it had compromised earthing for its electronics circuitry (by design)
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It was a solid project which I anticipated would become a "work of art"
for me that I could play with when I had to keep myself awake at nights
while I was looking after my severely disabled wife, and listening to
her breathing through assisted breathing equipment without my having to
be in the room with her while she slept.

The TS-820 was all the TS520 ever could be for me but it presented me
with a greater set of challenges.

I am not sorry I bought it, even though I still haven't got it running
up to my expectations yet.

....

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It has some failings though.

Its failings are it uses unsealed relays and is too complicated to work
on and with, when you compare it to the Kenwood hybrids, Also its gauges
are too small for me to see properly without my glasses, as and when I
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I hope this helps.
73 de Bob Daymond VK4GCA (from the Gold Coast of Australia)

--- In TS-520_820_530_ 830@yahoogroups. com, Andrea Liverani
<andrealiverani@ ...> wrote:
>
>
>
> I like 520 for it's minimal look and semplicity.
>
> 520S/SE for 160 meters and several improovements.
>
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> even if is small and light in comparison with the previous models...
>
> if i have just to save one of them , would be a very difficult
choice...
>
> and for u?
>
>
>
> _____ _____ _____ _____ _____ _____ _

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

24126. Re: 12 Pin Jones Connectors

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-24 14:23:14 UTC
From: Aaron
Topic: 24120 Message: 24126

Anyone know what size these are 312 or 412?

Aaron

--- In TS-520_820_530_830@yahoogroups.com, "Aaron" <wm.aaron.lamb@...> wrote:
>
> I got the TS-900 today. It did not come with 12 pin jones cable that runs from teh PS to the rig.
>
> Anyone know of a good source to purchase these so I can get this baby fired up?
>
> Aaron
> KD4GSL
>

24127. Re: [TS-520_820_530_830] Re: So.. who's the king of hybrids?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-24 15:13:22 UTC
From: John Davidson
Topic: 24089 Message: 24127

The ORIGINAL TS520 (no S) my rig, because it has no #$%&*! digi readout !

--- On Wed, 12/23/09, itsbutme <itsbutme@...> wrote:

From: itsbutme <itsbutme@...>
Subject: [TS-520_820_530_830] Re: So.. who's the king of hybrids?
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, December 23, 2009, 10:35 PM

Hi Andrea.

Now you've asked a touchy question.

While I've never had one,
the most popular hybrid amateur transceiver seems to me to be
the Kenwood TS-520S.

There are several reasons for this.
 my ....

[Non-text portions of this message have been removed]

24128. Re: [TS-520_820_530_830] Re: So.. who's the king of hybrids?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-24 15:19:24 UTC
From: Kurt Cathcart
Topic: 24089 Message: 24128

Also, another Kenwood hybrid without a digital readout is the T-599/R-599 pair. I lover these radios.

-Kurt
kr2c

----- Original Message -----
From: John Davidson
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, December 24, 2009 10:13 AM
Subject: Re: [TS-520_820_530_830] Re: So.. who's the king of hybrids?

The ORIGINAL TS520 (no S) my rig, because it has no #$%&*! digi readout !

--- On Wed, 12/23/09, itsbutme <itsbutme@...> wrote:

From: itsbutme <itsbutme@...>
Subject: [TS-520_820_530_830] Re: So.. who's the king of hybrids?
To: TS-520_820_530_830@yahoogroups.com
Date: Wednesday, December 23, 2009, 10:35 PM

Hi Andrea.

Now you've asked a touchy question.

While I've never had one,
the most popular hybrid amateur transceiver seems to me to be
the Kenwood TS-520S.

There are several reasons for this.
my ....

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

24129. Re: TS820S CW Filter needed

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-24 15:32:39 UTC
From: w5rkl
Topic: 24123 Message: 24129

If you can't find anyone willing to part with an 820 factory CW filter, INRAD sells number of filters for the TS-820. See the following link for details:

http://www.qth.com/inrad/

By the way, the only difference between the TS-820 and the TS-820S is the "DG-1" COUNTER UNIT assembly. Therefore, a factory or INRAD crystal filter designed to be used in a TS-820 will also work in a TS-820S. The INRAD filter may be slightly larger than the factory filter. See INRAD for details.

One last thing that many hams may not be aware of. A crystal filter from any 520 series radio will not work in an 820 series radio and vice verse. The reason is the different IF frequencies between the 520 and 820 series radios. The 520 has a 3.395Mhz IF frequency while the 820 has an 8.830Mhz IF frequency.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "aa2yv" <whopkin4@...> wrote:
>
> I just picked up a TS-820S on Ebay. Nice condx, but no filters and no digital readout module. I need first the CW filter: YG-88C. Anybody have one in working order to unload?
73's, Bill/AA2YV/Rochester NY
>

24130. Re: TS820S CW Filter needed

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-24 16:21:57 UTC
From: kj4aur
Topic: 24123 Message: 24130

Also if you can find a "-1" filter, these are the same filters (example YK-88SN-1) but soldered to the PCB for a solder-less connection. De-solder the filter and it'll work fine since the IF is 8830KHz. I used a YK-88SN-1 in my TS-530S.

The "-1" seem to be easier to find, for example, here is a YK88CN-1
https://www.hamcity.com/store/pc/viewPrd.asp?idcategory=344&idproduct=1275

I think you may have luck finding a YK88C-1 looks like here's one,
http://www.hamstation.com/shopping/index.php?main_page=product_info&products_id=289

Note I have no affiliation with hamstation/hamcity nor have I ever used them.

73 - Nathan

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
>
> If you can't find anyone willing to part with an 820 factory CW filter, INRAD sells number of filters for the TS-820. See the following link for details:
>
> http://www.qth.com/inrad/
>
> By the way, the only difference between the TS-820 and the TS-820S is the "DG-1" COUNTER UNIT assembly. Therefore, a factory or INRAD crystal filter designed to be used in a TS-820 will also work in a TS-820S. The INRAD filter may be slightly larger than the factory filter. See INRAD for details.
>
> One last thing that many hams may not be aware of. A crystal filter from any 520 series radio will not work in an 820 series radio and vice verse. The reason is the different IF frequencies between the 520 and 820 series radios. The 520 has a 3.395Mhz IF frequency while the 820 has an 8.830Mhz IF frequency.
>
> 73s
> Mike W5RKL
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "aa2yv" <whopkin4@> wrote:
> >
> > I just picked up a TS-820S on Ebay. Nice condx, but no filters and no digital readout module. I need first the CW filter: YG-88C. Anybody have one in working order to unload?
73's, Bill/AA2YV/Rochester NY
> >
>

24131. External DSP units

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-24 16:51:36 UTC
From: Peter
Topic: 24131 Message: 24131

Hi All:
I'm enjoying my TS-520SE and even with a 20M wire dipole only 15 feet off the ground I've managed to make contacts to Holland and England with good reports. But, I do have an issue with noise and other interference.
I'm interested in any comments regarding external DSP units. No CW, just SSB. I've looked at some of the reviews on eHam, but want to reduce the number of units to cosider.

Thanks in advance.

Pete, N1TCH

24132. RE: [TS-520_820_530_830] Re: So.. who's the king of hybrids?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-24 17:14:59 UTC
From: Louis A. Bellock
Topic: 24089 Message: 24132

Yes Kurt, I agree. Having owned 3 520s, 1 520S, 1 520SE, 3 820s, the TX-310/JR-310, the TS-510/VFO-5D, 1 R-599/T-599 and 1 R-599D/T-599D; my all time favorite "King of Hybrids" is the last (R-599D/T-599D). It is by far the highest quality, best performing, most flexible and unusual Kenwood I have ever owned. Features like the "Squelch" and built-in switchable filters blow away the IF-Shift on the 53X/8XX series transceivers. Other items I like about this set is the absence of a digital readout, responsive S-Meter/Sensitivity setting, preciseness and feeling of the knobs, the frequency dial accuracy, and the fact that it has the "AM" mode; which I use infrequently and get great audio reports. My second favorite all time Trio/Kenwood set, for CW, is the TX-310/JR-310, which is a "daily driver" for me. Tube warm-up is about 3 minutes which is a minor drawback.

73 and Happy Holidays to all, Lou N2JPR

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Kurt Cathcart
Sent: Thursday, December 24, 2009 10:19 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: So.. who's the king of hybrids?

Also, another Kenwood hybrid without a digital readout is the T-599/R-599 pair. I lover these radios.

-Kurt
kr2c

----- Original Message -----
From: John Davidson
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
Sent: Thursday, December 24, 2009 10:13 AM
Subject: Re: [TS-520_820_530_830] Re: So.. who's the king of hybrids?

The ORIGINAL TS520 (no S) my rig, because it has no #$%&*! digi readout !

--- On Wed, 12/23/09, itsbutme <itsbutme@yahoo.
<mailto:itsbutme%40yahoo.com.au> com.au> wrote:

From: itsbutme <itsbutme@yahoo. <mailto:itsbutme%40yahoo.com.au> com.au>
Subject: [TS-520_820_530_830] Re: So.. who's the king of hybrids?
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
Date: Wednesday, December 23, 2009, 10:35 PM

Hi Andrea.

Now you've asked a touchy question.

While I've never had one,
the most popular hybrid amateur transceiver seems to me to be
the Kenwood TS-520S.

There are several reasons for this.
my ....

[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

24133. Re: Dumb tuning question for a 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-24 17:41:37 UTC
From: gpw200493
Topic: 24096 Message: 24133

Learn something new every day! I had been setting it to the ALC scale and not the entire meter deflection.
Herb KC5MO
SKCC 5582
FISTS 14454

--- In TS-520_820_530_830@yahoogroups.com, "doug_t@..." <doug_t@...> wrote:
>
> Hello, new guy here. Just got my general ticket and a 520s.
>
> When adjusting the Drive with the mode switch at ALC and stand-by switch in send, instructions say to adjust for maximum meter deflection. My question is do I adjust for maximum deflection on the ALC scale, or the entire meter travel? (Well not to peg it of course)
>
> Thanks in advance.
>

24134. Re: Dumb tuning question for a 520s

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-24 21:17:28 UTC
From: w5rkl
Topic: 24096 Message: 24134

Adjusting the DRIVE control in TUNE mode for a peak meter indication is NOT about adjusting the DRIVE control so the meter needle rest at the high end of the ALC scale nor does it mean to adjust the DRIVE control and CAR control together so the meter's needle rest at the right edge of the meter scales either! It is simply about adjusting the DRIVE control for a peak meter indication and absolutely nothing more!

If the meter pegs all the way to the right, simply rotate the CAR control counter clockwise for a lower meter indication, say so the meter needle points at 12 o'clock, then continue adjusting the DRIVE control. Again, if the meter pegs all the way to the right, readjust the CAR control counter clockwise for a lower meter indication and, as before, continue adjusting the DRIVE control for a peak meter indication.

If, while adjusting the DRIVE control, the meter indication begins to drop back to the left towards zero, adjust the DRIVE control in the opposite direction so the meter peaks and then STOP adjusting the DRIVE control.

Continue with the adjustment of the PLATE and LOAD controls as outlined in the manual etc.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "gpw200493" <gpw200493@...> wrote:
>
>
> Learn something new every day! I had been setting it to the ALC scale and not the entire meter deflection.
> Herb KC5MO
> SKCC 5582
> FISTS 14454
>
> --- In TS-520_820_530_830@yahoogroups.com, "doug_t@" <doug_t@> wrote:
> >
> > Hello, new guy here. Just got my general ticket and a 520s.
> >
> > When adjusting the Drive with the mode switch at ALC and stand-by switch in send, instructions say to adjust for maximum meter deflection. My question is do I adjust for maximum deflection on the ALC scale, or the entire meter travel? (Well not to peg it of course)
> >
> > Thanks in advance.
> >
>

24135. Re: External DSP units

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-24 23:51:09 UTC
From: kj4aur
Topic: 24131 Message: 24135

Hello, I use the West Mountain Radio CLRspkr with my TS-530S and it's wonderful. It's great at completely eliminating heterodyne, QRM, and QRN. Honestly, I use it almost 100% of the time. I often use it in the DSP "high" position or the "max" position depending on noise. There are *MANY* times where I could not hear the other station without significant fatigue without the DSP.

They also make the CLRdsp which is the CLRspkr minus the actual speaker.

Both the CLRdsp and CLRspkr use the ClearSpeech algorithm from NCT Group Inc, http://www.nct-active.com/ which is used in NASCAR, cellular phones, etc.

I'll say it's night and day difference and it's easy of use "on/off and level" make it easy. This is one purchase I've made that I don't regret. Well worth the money.

73 - Nathan

--- In TS-520_820_530_830@yahoogroups.com, "Peter" <nitchman@...> wrote:
>
> Hi All:
> I'm enjoying my TS-520SE and even with a 20M wire dipole only 15 feet off the ground I've managed to make contacts to Holland and England with good reports. But, I do have an issue with noise and other interference.
> I'm interested in any comments regarding external DSP units. No CW, just SSB. I've looked at some of the reviews on eHam, but want to reduce the number of units to cosider.
>
> Thanks in advance.
>
> Pete, N1TCH
>

24136. TS-830s Display

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-25 02:02:36 UTC
From: wayne
Topic: 24136 Message: 24136

I have a Kenwood TS-830s and the display will not show anymore, I know there is a fix for this but I can not fine it, please help.
Merry Christmas.
Wayne AA5JJ

24137. VFO-820 Pilot Lamp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-25 03:53:21 UTC
From: brad_kd5zat
Topic: 24137 Message: 24137

Merry Christmas Everyone,

I have a VFO-820 that I recently purchased on Ebay. The dial lamp is burned out. Does anyone know of a replacement for this lamp. It is a 12vac, 40ma lamp. The Kenwood part # is B30-0079-05.

Any help would be greatly appreciated.

Brad
KD5ZAT

24138. Re: VFO-820 Pilot Lamp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-25 04:18:55 UTC
From: kj4aur
Topic: 24137 Message: 24138

Merry Christmas. When I had my TS-820S I replaced both lamps (one was burnt out, the other was replaced so it would match) by using this:

http://www.radioshack.com/product/index.jsp?productId=2104023

The Radio Shack matched the original color very well and was the same warm color. It was slightly (5%) brighter than the original so I went ahead and replaced them both so they would match.

Ken, K4EAA, also sells replacements, located here:

http://www.k4eaa.com/parts.htm

Hope this helped and 73.

-Nathan

--- In TS-520_820_530_830@yahoogroups.com, "brad_kd5zat" <bjpenn@...> wrote:
>
> Merry Christmas Everyone,
>
> I have a VFO-820 that I recently purchased on Ebay. The dial lamp is burned out. Does anyone know of a replacement for this lamp. It is a 12vac, 40ma lamp. The Kenwood part # is B30-0079-05.
>
> Any help would be greatly appreciated.
>
> Brad
> KD5ZAT
>

24139. Re: VFO-820 Pilot Lamp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-25 04:47:05 UTC
From: brad_kd5zat
Topic: 24137 Message: 24139

Thanks Nathan....I didn't even think of Ken's web site. I have bought parts from him before for my TS-820S. I guess I just assumed that the lamp in my VFO-820 was different. I should have checked the TS-820S parts list.

Thanks for setting me straight.

I do have a question for you if you don't mind. I purchased this VFO-820 on Ebay and received it about one week ago. I plugged it into the TS-820S and it was all down hill after that. To make a long story short, I discovered an open transistor on the AF-AVR board with the help of Mike W5RKL in this group. The radio is back up running great, but I am afraid to plug the VFO-820 in again. The problem on the TS-820S after plugging in the VFO-820 was the 9 volts supply on the radio. It was only measuring about 6.1v.

My question is....I did not have the chassis ground strap connected between the radio and the external VFO. Maybe I had a floating ground on the VFO without having that good chassis ground reference? Do you or anyone think that caused the issue with the radio? I also found 2 broken wire in the VFO-820 cable on pins 3 and 4. Pin 4 provides 12vac for the lamp. Pin 3 is ground.

Just wondering. I have checked everthing on this VFO I can think of and can't find anything wrong except a burned out pilot lamp.

Thanks again,

Brad
KD5ZAT

--- In TS-520_820_530_830@yahoogroups.com, "kj4aur" <kj4aur@...> wrote:
>
>
>
> Merry Christmas. When I had my TS-820S I replaced both lamps (one was burnt out, the other was replaced so it would match) by using this:
>
> http://www.radioshack.com/product/index.jsp?productId=2104023
>
> The Radio Shack matched the original color very well and was the same warm color. It was slightly (5%) brighter than the original so I went ahead and replaced them both so they would match.
>
> Ken, K4EAA, also sells replacements, located here:
>
> http://www.k4eaa.com/parts.htm
>
> Hope this helped and 73.
>
> -Nathan

>
> --- In TS-520_820_530_830@yahoogroups.com, "brad_kd5zat" <bjpenn@> wrote:
> >
> > Merry Christmas Everyone,
> >
> > I have a VFO-820 that I recently purchased on Ebay. The dial lamp is burned out. Does anyone know of a replacement for this lamp. It is a 12vac, 40ma lamp. The Kenwood part # is B30-0079-05.
> >
> > Any help would be greatly appreciated.
> >
> > Brad
> > KD5ZAT
> >
>

24140. Re: VFO-820 Pilot Lamp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-25 15:15:33 UTC
From: kj4aur
Topic: 24137 Message: 24140

I may have to let others chime in on this once since they're likely more experienced than I. I'm still learning as I go (perhaps why I enjoy the hobby so much) and offering what little bit of knowledge I've picked up along the way to others. I was never able to source a VFO-820 cable due to the scarcity of the socket connectors. What I ended up doing was taking some quality wire and tinning both ends. I plugged these directly into the socket, maintaining a straight-through connection (from what I remember). I later bundled the wire with wire wrap and threw a ferrite choke on it.

As I recall I did ground the VFO to the TS-820S but I believe I also operated it some time without the ground whilst I was experimenting with the VFO cable.

Perhaps a broken ground wire in the VFO cable is indeed the culprit. 73 and hope to catch you on the bands.

-Nathan

--- In TS-520_820_530_830@yahoogroups.com, "brad_kd5zat" <bjpenn@...> wrote:
>
> Thanks Nathan....I didn't even think of Ken's web site. I have bought parts from him before for my TS-820S. I guess I just assumed that the lamp in my VFO-820 was different. I should have checked the TS-820S parts list.
>
> Thanks for setting me straight.
>
> I do have a question for you if you don't mind. I purchased this VFO-820 on Ebay and received it about one week ago. I plugged it into the TS-820S and it was all down hill after that. To make a long story short, I discovered an open transistor on the AF-AVR board with the help of Mike W5RKL in this group. The radio is back up running great, but I am afraid to plug the VFO-820 in again. The problem on the TS-820S after plugging in the VFO-820 was the 9 volts supply on the radio. It was only measuring about 6.1v.
>
> My question is....I did not have the chassis ground strap connected between the radio and the external VFO. Maybe I had a floating ground on the VFO without having that good chassis ground reference? Do you or anyone think that caused the issue with the radio? I also found 2 broken wire in the VFO-820 cable on pins 3 and 4. Pin 4 provides 12vac for the lamp. Pin 3 is ground.
>
> Just wondering. I have checked everthing on this VFO I can think of and can't find anything wrong except a burned out pilot lamp.
>
> Thanks again,
>
> Brad
> KD5ZAT
>
> --- In TS-520_820_530_830@yahoogroups.com, "kj4aur" <kj4aur@> wrote:

> >
> >
> >
> > Merry Christmas. When I had my TS-820S I replaced both lamps (one was burnt out, the other was replaced so it would match) by using this:
> >
> > http://www.radioshack.com/product/index.jsp?productId=2104023
> >
> > The Radio Shack matched the original color very well and was the same warm color. It was slightly (5%) brighter than the original so I went ahead and replaced them both so they would match.
> >
> > Ken, K4EAA, also sells replacements, located here:
> >
> > http://www.k4eaa.com/parts.htm
> >
> > Hope this helped and 73.
> >
> > -Nathan
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "brad_kd5zat" <bjpenn@> wrote:
> > >
> > > Merry Christmas Everyone,
> > >
> > > I have a VFO-820 that I recently purchased on Ebay. The dial lamp is burned out. Does anyone know of a replacement for this lamp. It is a 12vac, 40ma lamp. The Kenwood part # is B30-0079-05.
> > >
> > > Any help would be greatly appreciated.
> > >
> > > Brad
> > > KD5ZAT
> > >
> >
>

24141. Re: [TS-520_820_530_830] Re: VFO-820 Pilot Lamp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-25 15:37:44 UTC
From: martin
Topic: 24137 Message: 24141

Hi Brad. I would check the VFO cable with a VOM to make sure that you have no more broken wires or shorts in the cable. If it was me, I would re-wire the cable with new wire, possibly from a sheilded Cat 5 computer network cable.

The reason that I would do this is that if 2 wires are broken inside the cable, other could break and/or short out too. The insulation on the wires in some multi-wire cables can get brittle and crack over time. It is best to use shielded cables, and make sure all all equipment is grounded together via the connecting cables or external ground connections.

Maybe someone with a working VFO could give you readings on each pin of the cable with it connected to the VFO (but not the radio).

TTYL, good luck, and Merry Christmas!

brad_kd5zat wrote:

> I do have a question for you if you don't mind. I purchased this
> VFO-820 on Ebay and received it about one week ago. I plugged it
> into the TS-820S and it was all down hill after that. To make a
> long story short, I discovered an open transistor on the AF-AVR
> board with the help of Mike W5RKL in this group. The radio is back
> up running great, but I am afraid to plug the VFO-820 in again. The
> problem on the TS-820S after plugging in the VFO-820 was the 9
> volts supply on the radio. It was only measuring about 6.1v.
>
> My question is....I did not have the chassis ground strap connected
> between the radio and the external VFO. Maybe I had a floating
> ground on the VFO without having that good chassis ground
> reference? Do you or anyone think that caused the issue with the
> radio? I also found 2 broken wire in the VFO-820 cable on pins 3
> and 4. Pin 4 provides 12vac for the lamp. Pin 3 is ground.
>
> Just wondering. I have checked everthing on this VFO I can think of
> and can't find anything wrong except a burned out pilot lamp.
>
> Thanks again,
>
> Brad KD5ZAT
>
> --- In TS-520_820_530_830@yahoogroups.com, "kj4aur" <kj4aur@...>
> wrote:
>>
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>> Merry Christmas. When I had my TS-820S I replaced both lamps
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>> Ken, K4EAA, also sells replacements, located here:
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>> Hope this helped and 73.
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>> -Nathan
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>>> Any help would be greatly appreciated.
>>>
>>> Brad KD5ZAT
>>>
>
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
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>
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>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more

at http://www.defectivebydesign.org/what_is_drm"

24142. Re: VFO-820 Pilot Lamp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-25 16:06:11 UTC
From: brad_kd5zat
Topic: 24137 Message: 24142

Hi Nathan,

I completely understand about the learning process. That is what makes it so much fun with these old rigs. When I got this one working again the other night I was like a kid at Christmas... ;)

Take Care and have a great holiday.

73
Brad
KD5ZAT

--- In TS-520_820_530_830@yahoogroups.com, "kj4aur" <kj4aur@...> wrote:
>
>
>
> I may have to let others chime in on this once since they're likely more experienced than I. I'm still learning as I go (perhaps why I enjoy the hobby so much) and offering what little bit of knowledge I've picked up along the way to others. I was never able to source a VFO-820 cable due to the scarcity of the socket connectors. What I ended up doing was taking some quality wire and tinning both ends. I plugged these directly into the socket, maintaining a straight-through connection (from what I remember). I later bundled the wire with wire wrap and threw a ferrite choke on it.
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> As I recall I did ground the VFO to the TS-820S but I believe I also operated it some time without the ground whilst I was experimenting with the VFO cable.
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> > My question is....I did not have the chassis ground strap connected between the radio and the external VFO. Maybe I had a floating ground on the VFO without having that good chassis ground reference? Do you or anyone think that caused the issue with the radio? I also found 2 broken wire in the VFO-820 cable on pins 3 and 4. Pin 4 provides 12vac for the lamp. Pin 3 is ground.
> >
> > Just wondering. I have checked everthing on this VFO I can think of and can't find anything wrong except a burned out pilot lamp.
> >
> > Thanks again,
> >
> > Brad
> > KD5ZAT
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "kj4aur" <kj4aur@> wrote:
> > >
> > >
> > >
> > > Merry Christmas. When I had my TS-820S I replaced both lamps (one was burnt out, the other was replaced so it would match) by using this:
> > >
> > > http://www.radioshack.com/product/index.jsp?productId=2104023
> > >
> > > The Radio Shack matched the original color very well and was the same warm color. It was slightly (5%) brighter than the original so I went ahead and replaced them both so they would match.
> > >
> > > Ken, K4EAA, also sells replacements, located here:
> > >
> > > http://www.k4eaa.com/parts.htm
> > >
> > > Hope this helped and 73.
> > >
> > > -Nathan
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "brad_kd5zat" <bjpenn@> wrote:
> > > >
> > > > Merry Christmas Everyone,
> > > >
> > > > I have a VFO-820 that I recently purchased on Ebay. The dial lamp is burned out. Does anyone know of a replacement for this lamp. It is a 12vac, 40ma lamp. The Kenwood part # is B30-0079-05.
> > > >
> > > > Any help would be greatly appreciated.
> > > >
> > > > Brad
> > > > KD5ZAT
> > > >
> > >

> >
>

24143. Re: VFO-820 Pilot Lamp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-25 16:01:10 UTC
From: brad_kd5zat
Topic: 24137 Message: 24143

Thanks Martin....

I probably could have explained the 2 wires I found "broken" a little better. They had actually come unsoldered at the connector one one end. I repaired them after the radio failed. I have checked the cable end to end and for shorts and it measures out ok. I'm just a bit nervous about plugging the VFO-820 back into the radio.

Thanks again,

73
Brad
KD5ZAT

--- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@...> wrote:
>
> Hi Brad. I would check the VFO cable with a VOM to make sure that you
> have no more broken wires or shorts in the cable. If it was me, I
> would re-wire the cable with new wire, possibly from a sheilded Cat 5
> computer network cable.
>
> The reason that I would do this is that if 2 wires are broken inside
> the cable, other could break and/or short out too. The insulation on
> the wires in some multi-wire cables can get brittle and crack over
> time. It is best to use shielded cables, and make sure all all
> equipment is grounded together via the connecting cables or external
> ground connections.
>
> Maybe someone with a working VFO could give you readings on each pin
> of the cable with it connected to the VFO (but not the radio).
>
> TTYL, good luck, and Merry Christmas!
>
> brad_kd5zat wrote:
>
> > I do have a question for you if you don't mind. I purchased this
> > VFO-820 on Ebay and received it about one week ago. I plugged it
> > into the TS-820S and it was all down hill after that. To make a
> > long story short, I discovered an open transistor on the AF-AVR
> > board with the help of Mike W5RKL in this group. The radio is back
> > up running great, but I am afraid to plug the VFO-820 in again. The
> > problem on the TS-820S after plugging in the VFO-820 was the 9
> > volts supply on the radio. It was only measuring about 6.1v.
> >
> > My question is....I did not have the chassis ground strap connected
> > between the radio and the external VFO. Maybe I had a floating
> > ground on the VFO without having that good chassis ground

> > reference? Do you or anyone think that caused the issue with the
> > radio? I also found 2 broken wire in the VFO-820 cable on pins 3
> > and 4. Pin 4 provides 12vac for the lamp. Pin 3 is ground.
> >
> > Just wondering. I have checked everthing on this VFO I can think of
> > and can't find anything wrong except a burned out pilot lamp.
> >
> > Thanks again,
> >
> > Brad KD5ZAT
> >
> > --- In TS-520_820_530_830@...m, "kj4aur" <kj4aur@>
> > wrote:
> >>
> >>
> >> Merry Christmas. When I had my TS-820S I replaced both lamps
> >> (one was burnt out, the other was replaced so it would match) by
> >> using this:
> >>
> >> http://www.radioshack.com/product/index.jsp?productId=2104023
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> >> The Radio Shack matched the original color very well and was the
> >> same warm color. It was slightly (5%) brighter than the original
> >> so I went ahead and replaced them both so they would match.
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> >> Ken, K4EAA, also sells replacements, located here:
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> >> http://www.k4eaa.com/parts.htm
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> >> Hope this helped and 73.
> >>
> >> -Nathan
> >>
> >> --- In TS-520_820_530_830@yahoogroups.com, "brad_kd5zat"
> >> <bjpenn@> wrote:
> >>> Merry Christmas Everyone,
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> >>> I have a VFO-820 that I recently purchased on Ebay. The dial
> >>> lamp is burned out. Does anyone know of a replacement for this
> >>> lamp. It is a 12vac, 40ma lamp. The Kenwood part # is
> >>> B30-0079-05.
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> >>> Any help would be greatly appreciated.
> >>>
> >>> Brad KD5ZAT
> >>>
> >
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> >
> >

> > ------------------------------------
> >
> > Yahoo! Groups Links
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> --
> CUL8R
>
> KBOHAE kb0hae@... Martin Campbell
>
> A Satisfied Sidux Linux user! To get Sidux go to:
> www.sidux.com/index.html
> "Protect your digital freedom and privacy, eliminate DRM, learn more
> at http://www.defectivebydesign.org/what_is_drm"
>

24144. Re: VFO-820 Pilot Lamp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-25 16:10:21 UTC
From: brad_kd5zat
Topic: 24137 Message: 24144

Hi Nathan,

I completely understand about the learning process. That is what makes it so much fun with these old rigs. When I got this one working again the other night I was like a kid at Christmas... ;)

Take Care and have a great holiday.

73
Brad
KD5ZAT

--- In TS-520_820_530_830@yahoogroups.com, "kj4aur" <kj4aur@...> wrote:
>
>
>
> I may have to let others chime in on this once since they're likely more experienced than I. I'm still learning as I go (perhaps why I enjoy the hobby so much) and offering what little bit of knowledge I've picked up along the way to others. I was never able to source a VFO-820 cable due to the scarcity of the socket connectors. What I ended up doing was taking some quality wire and tinning both ends. I plugged these directly into the socket, maintaining a straight-through connection (from what I remember). I later bundled the wire with wire wrap and threw a ferrite choke on it.
>
> As I recall I did ground the VFO to the TS-820S but I believe I also operated it some time without the ground whilst I was experimenting with the VFO cable.
>
> Perhaps a broken ground wire in the VFO cable is indeed the culprit. 73 and hope to catch you on the bands.
>
> -Nathan
>
> --- In TS-520_820_530_830@yahoogroups.com, "brad_kd5zat" <bjpenn@> wrote:
> >
> > Thanks Nathan....I didn't even think of Ken's web site. I have bought parts from him before for my TS-820S. I guess I just assumed that the lamp in my VFO-820 was different. I should have checked the TS-820S parts list.
> >
> > Thanks for setting me straight.
> >
> > I do have a question for you if you don't mind. I purchased this VFO-820 on Ebay and received it about one week ago. I plugged it into the TS-820S and it was all down hill after that. To make a long story short, I discovered an open transistor on the AF-AVR board with the help of Mike W5RKL in this group. The radio is back up running great, but I am afraid to plug the VFO-820 in again. The problem on the TS-820S after plugging in the VFO-820 was the 9 volts supply on the radio. It was only measuring about 6.1v.

> >
> > My question is....I did not have the chassis ground strap connected between the radio and the external VFO. Maybe I had a floating ground on the VFO without having that good chassis ground reference? Do you or anyone think that caused the issue with the radio? I also found 2 broken wire in the VFO-820 cable on pins 3 and 4. Pin 4 provides 12vac for the lamp. Pin 3 is ground.
> >
> > Just wondering. I have checked everthing on this VFO I can think of and can't find anything wrong except a burned out pilot lamp.
> >
> > Thanks again,
> >
> > Brad
> > KD5ZAT
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> > --- In TS-520_820_530_830@yahoogroups.com, "kj4aur" <kj4aur@> wrote:
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> > >
> > >
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> > > Hope this helped and 73.
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> > > -Nathan
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> > > >
> > > > Any help would be greatly appreciated.
> > > >
> > > > Brad
> > > > KD5ZAT
> > > >
> > >

> >
>

24145. Re: So.. who's the king of hybrids?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-25 14:44:54 UTC
From: w0szv
Topic: 24089 Message: 24145

Still have my two favorites. TS830s and a Pair of 599D's with matching speaker. would be hard pressed to make a choice between them.

--- In TS-520_820_530_830@yahoogroups.com, Andrea Liverani <andrealiverani@...> wrote:
>
>
>
> I like 520 for it's minimal look and semplicity.
>
> 520S/SE for 160 meters and several improovements.
>
> TS-820 is the heaviest and definitely the flagship of the lot .
>
> 530 it's said to have a quiet receiver , good performance and warc
>
> And 830 is the latest and more sophisticated hybrid produced by kenwood
> even if is small and light in comparison with the previous models...
>
> if i have just to save one of them , would be a very difficult choice...
>
> and for u?
>
>
>
> --
> 25 Gigabyte per le tue foto online
> http://www.windowslive.it/foto.aspx
>
> [Non-text portions of this message have been removed]
>

24146. Re: TS-830s Display

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-25 18:34:21 UTC
From: w5rkl
Topic: 24136 Message: 24146

Hello Wayne,

My first thought is the plugs on the COUNTER UNIT (digital display board) and other boards.

The plastic plugs that plug into each PC board have been known to cause problems in the past, not only the 830 but other hybrids as well.

I recommend removing each plug, one at a time, and give the plug and the pins a shot of contact cleaner. Insert the plug a number of times then seat the plug one last time. Make sure it sits flush on the board and none of the wires are broken. Use canned air to remove any/all excess contact cleaner.

Do this to all of the plugs in the 830.

I also recommend checking each PC board's mounting hardware. The edges are typically ground returns and if corrosion builds up between the board and the metal mounting stub/chassis, the ground will present a resistance which shouldn't be there. Loosen each mounting screw then re-tighten the screw. Do not use excessive force as you could strip the threads on the screws and/or mounting stub/chassis.

Check voltage on the COUNTER UNIT board plug 1 pin 3, it should be 12VDC.

73s
Merry Christmas
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "wayne" <aa5jj@...> wrote:
>
> I have a Kenwood TS-830s and the display will not show anymore, I know there is a fix for this but I can not fine it, please help.
> Merry Christmas.
> Wayne AA5JJ
>

24147. Re: [TS-520_820_530_830] Re: So.. who's the king of hybrids?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-25 22:43:53 UTC
From: Kay Groß
Topic: 24089 Message: 24147

Hello to all,

my favorite rig is the TS830 followed by the FT101ZD mark3,
but that is not a Kenwood,hi.Both used every day.

Happy holidays and Merry Christmas from Germany

73 Kay DL5OAQ

www.pbase.com/dl5oaq
----- Original Message -----
From: w0szv
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, December 25, 2009 3:44 PM
Subject: [TS-520_820_530_830] Re: So.. who's the king of hybrids?

Still have my two favorites. TS830s and a Pair of 599D's with matching speaker. would be hard pressed to make a choice between them.

--- In TS-520_820_530_830@yahoogroups.com, Andrea Liverani <andrealiverani@...> wrote:
>
>
>
> I like 520 for it's minimal look and semplicity.
>
> 520S/SE for 160 meters and several improovements.
>
> TS-820 is the heaviest and definitely the flagship of the lot .
>
> 530 it's said to have a quiet receiver , good performance and warc
>
> And 830 is the latest and more sophisticated hybrid produced by kenwood
> even if is small and light in comparison with the previous models...
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> if i have just to save one of them , would be a very difficult choice...
>
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>
>
>
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>
> [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

24148. TS 820 TUN and CW not working

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-25 23:14:14 UTC
From: k4mau
Topic: 23783 Message: 24148

Hi all
I just wanted to thank everyone that helped me with my 820 Tun/CW problem. And wish all a MERRY CHRISTMAS and HAPPY NEW YEAR!
Thanks again.
Rob K4MAU

24149. Re: So.. who's the king of hybrids?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-25 23:51:52 UTC
From: scott10k
Topic: 24089 Message: 24149

Wow-this is a difficult question since I have never owned one of the Yaesu hybrids. However, my first "real" rig was a TS-520 that brought so much excitement to my hamming. Then I traded it in for a TS-530S that I used for many years before selling it on eBay (mistake!!). Now much later I bought a used TS-520S for a ham friend and have really enjoyed fixing it up. I have never owned a TS-830S, but many people think it is the "King of Hybrids". Of the units I haved owned, the TS-530S was really primo, but I liked all of them. Kenwood really made a great series of rigs!
73s and Happy Holidays, Scott, N6CIC

--- In TS-520_820_530_830@yahoogroups.com, Kay Groß <kaygross@...> wrote:
>
> Hello to all,
>
> my favorite rig is the TS830 followed by the FT101ZD mark3,
> but that is not a Kenwood,hi.Both used every day.
>
> Happy holidays and Merry Christmas from Germany
>
> 73 Kay DL5OAQ
>
> www.pbase.com/dl5oaq
> ----- Original Message -----
> From: w0szv
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, December 25, 2009 3:44 PM
> Subject: [TS-520_820_530_830] Re: So.. who's the king of hybrids?
>
>
>
> Still have my two favorites. TS830s and a Pair of 599D's with matching speaker. would be hard pressed to make a choice between them.
>
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> >
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> > I like 520 for it's minimal look and semplicity.
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> > [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
>

24150. Re: VFO-820 Pilot Lamp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-26 03:38:55 UTC
From: Music Maker
Topic: 24137 Message: 24150

Hi Folks - I hope by now, the effects of the extra large Christmas Dinner has worn off !! (Its 2.30am 26 Dec, and I am still 'Bloated!).

Off Topic a little - What about the Pilot Lights on the Meter and Dial on the TS 520SE?

Mine are working fine, but I want to do a little modiification - based around the fact that there is no Dial Light in the AT-230 Tuner, and I would like to run power for a lighted meter through the back of the unit (Small hole and rubber Grommet?). at the back - so I thought 'Hmmm! The Dial and Tuning Lights in the Transceiver are a bit dim - so why don't I change them for either Green or Blue LED's ? (and of course, the AT-230 Meter to match).

Has anyone done this? Is there anything I need to know, beyond hooking up the 13.8V feed from the INSIDE of the 520SE (I am using the external socket for the DG-5!) - to the LED's.

View my Mod in Pictures, to the AT230 to install an internal Dummy Load at ... http://www.John4Music.TV/27.html

Happy Holiday to all,

John G3OBU

.....\
.....\
.....
--- In TS-520_820_530_830@yahoogroups.com, "brad_kd5zat" <bjpenn@...>
wrote:
>
> Merry Christmas Everyone,
>
> I have a VFO-820 that I recently purchased on Ebay. The dial lamp is
burned out. Does anyone know of a replacement for this lamp. It is a
12vac, 40ma lamp. The Kenwood part # is B30-0079-05.
>
> Any help would be greatly appreciated.
>
> Brad
> KD5ZAT
>

24151. RE: [TS-520_820_530_830] Re: VFO-820 Pilot Lamp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-26 06:02:08 UTC
From: Dick Merryman
Topic: 24137 Message: 24151

John-

Don't drill a hole as it will affect the resale value of your unit. Matter of fact, adding a lamp would change the value. However, if you are determined to illuminate your VFO then why not use a LED from the 9V supply in theVvFO?

Thinking about it, I have a VFO 520 and a VFO 230 and they are both lighted. Are you sure that your's is not?

The very best of the new year to you and yours,

-Dick-
N3XRU

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Music Maker
Sent: Friday, December 25, 2009 7:39 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: VFO-820 Pilot Lamp

Hi Folks - I hope by now, the effects of the extra large Christmas Dinner has worn off !! (Its 2.30am 26 Dec, and I am still 'Bloated!).

Off Topic a little - What about the Pilot Lights on the Meter and Dial on the TS 520SE?

Mine are working fine, but I want to do a little modiification - based around the fact that there is no Dial Light in the AT-230 Tuner, and I would like to run power for a lighted meter through the back of the unit (Small hole and rubber Grommet?). at the back - so I thought 'Hmmm! The Dial and Tuning Lights in the Transceiver are a bit dim - so why don't I change them for either Green or Blue LED's ? (and of course, the AT-230 Meter to match).

Has anyone done this? Is there anything I need to know, beyond hooking up the 13.8V feed from the INSIDE of the 520SE (I am using the external socket for the DG-5!) - to the LED's.

View my Mod in Pictures, to the AT230 to install an internal Dummy Load at ... http://www.John4Mus <http://www.John4Music.TV/27.html> ic.TV/27.html

Happy Holiday to all,

John G3OBU

.....\
.....\
.....
--- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com, "brad_kd5zat" <bjpenn@...>
wrote:
>
> Merry Christmas Everyone,
>
> I have a VFO-820 that I recently purchased on Ebay. The dial lamp is
burned out. Does anyone know of a replacement for this lamp. It is a
12vac, 40ma lamp. The Kenwood part # is B30-0079-05.
>
> Any help would be greatly appreciated.
>
> Brad
> KD5ZAT
>

[Non-text portions of this message have been removed]

24152. Re: VFO-820 Pilot Lamp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-26 09:19:02 UTC
From: Music Maker
Topic: 24137 Message: 24152

Hi Dick .....

Thank you for the speedy response, and your interest.

The AT 230 is an Antenna Tuning Unit not a VFO (Wish I had one !!) .....
I understand your concerns about hole drilling, but the alternative
would be still to drill a hole in the back of the Transceiver and the
AT 230 to fit sockets for an interconnecting lead.

I am sure also that fitting green or blue lighting in both units would
also de-value, but I operate in a dimly lit area, and the meters need
some stronger illumination! - That means heat, and why I thought of
LED's ... if LED's - why not coloured? was the next thought !!
This is possibly sacrilege to some members, as we are striving to keep
these tranceivers on the air as 'working museum pieces', and they should
be as 'original' as possible, !! LOL

Others thoughts appreciated.

de

John G3OBU

.....\
.....\
...
--- In TS-520_820_530_830@yahoogroups.com, "Dick Merryman" <dicko@...>
wrote:
>
> John-
>
> Don't drill a hole as it will affect the resale value of your unit.
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> of fact, adding a lamp would change the value. However, if you are
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> Thinking about it, I have a VFO 520 and a VFO 230 and they are both
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> Are you sure that your's is not?
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> The very best of the new year to you and yours,
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> N3XRU
>

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> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Music Maker
> Sent: Friday, December 25, 2009 7:39 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: VFO-820 Pilot Lamp
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> View my Mod in Pictures, to the AT230 to install an internal Dummy
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ic.TV/27.html
>
> Happy Holiday to all,
>
> John G3OBU
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> .....

> --- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> 830@yahoogroups.com, "brad_kd5zat" bjpenn@
> wrote:
> >
> > Merry Christmas Everyone,
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> >
> > Any help would be greatly appreciated.
> >
> > Brad
> > KD5ZAT
> >
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>
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>
> [Non-text portions of this message have been removed]
>

24153. Re: VFO-820 Pilot Lamp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-26 12:59:02 UTC
From: w5rkl
Topic: 24137 Message: 24153

John,

RFI on the tuner's dial lamp power source wiring is more of an issue than drilling a hole in the rear panels of the tuner and hybrid.

I have to ask, how are you going to RFI proof the tuner's dial lamp wiring?

Have you considered what could happen to your transmit signal if RF is picked up by the tuner's dial lamp wiring in the AT-230 tuner that is then fed to the LV DC supply in the radio?

If you power the dial lamps in the tuner from the LV DC source in the radio, as it appears you are considering based on your recent response comments, RF picked up by the dial lamp wiring in the AT-230 tuner can and will result in RF being imposed onto the entire LV DC supply. This will result in RFI on your speech amplifier which will lead to RF distortion on your transmit signal. Personally, I wouldn't do it. It all sounds like a good idea on the surface but there's too much of a risk for dial lamp power source wiring that can cause RFI in the radio's LV DC supply.

Just a thought you may not have considered.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Music Maker" <jhaddleton@...> wrote:
>
>
> Hi Dick .....
>
> Thank you for the speedy response, and your interest.
>
> The AT 230 is an Antenna Tuning Unit not a VFO (Wish I had one !!) .....
> I understand your concerns about hole drilling, but the alternative
> would be still to drill a hole in the back of the Transceiver and the
> AT 230 to fit sockets for an interconnecting lead.
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> also de-value, but I operate in a dimly lit area, and the meters need
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> LED's ... if LED's - why not coloured? was the next thought !!
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> these tranceivers on the air as 'working museum pieces', and they should
> be as 'original' as possible, !! LOL
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> Others thoughts appreciated.
>
> de

>
> John G3OBU
>
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>
> ....\
> ....\
> ...
> --- In TS-520_820_530_830@yahoogroups.com, "Dick Merryman" <dicko@>
> wrote:
> >
> > John-
> >
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> > of fact, adding a lamp would change the value. However, if you are
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> > in theVvFO?
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> > Thinking about it, I have a VFO 520 and a VFO 230 and they are both
> lighted.
> > Are you sure that your's is not?
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> > The very best of the new year to you and yours,
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> > -Dick-
> > N3XRU
> >
> > _____
> >
> > From: TS-520_820_530_830@yahoogroups.com
> > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Music Maker
> > Sent: Friday, December 25, 2009 7:39 PM
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: [TS-520_820_530_830] Re: VFO-820 Pilot Lamp
> >
> >
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> > Hi Folks - I hope by now, the effects of the extra large Christmas
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> > --- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> > 830@yahoogroups.com, "brad_kd5zat" bjpenn@
> > wrote:
> > >
> > > Merry Christmas Everyone,
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> > > I have a VFO-820 that I recently purchased on Ebay. The dial lamp is
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> > > KD5ZAT
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> > [Non-text portions of this message have been removed]
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24154. Re: VFO-820 Pilot Lamp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-26 16:46:45 UTC
From: mathprof53575
Topic: 24137 Message: 24154

I recently bought a S-830S that someone has modified to use LEDs rather than the original incandescent bulbs. I intend to make some changes, I don't think the mod was done particularly well, but they did include some small RFCs where the wiring comes out of the VFO compartment and I was planning to do that also. And this is for a case where we are not even talking about wires that come outside the case, they just run a few inches inside. So I second the idea that thinking about RF pickup and spread is a "good thing"!

I hope to keep this rig forever once I get it all spruced up, so holes in the back panel are not an issue for me. And I don't know the VFO820. But on many of their boxes Kenwood did provide unused holes, planning ahead for whatever small connectors you might want to add. Or, on that VFO-820, are their any extra pins on a back panel connector that you could use? You only need one line, for the switched power, since presumably ground is already connected.

Bob Wilson
KC9RBZ

--- In TS-520_820_530_830@...m, "w5rkl" <w5rkl@...> wrote:
>
> John,
>
> RFI on the tuner's dial lamp power source wiring is more of an issue than drilling a hole in the rear panels of the tuner and hybrid.
>
> I have to ask, how are you going to RFI proof the tuner's dial lamp wiring?
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> Have you considered what could happen to your transmit signal if RF is picked up by the tuner's dial lamp wiring in the AT-230 tuner that is then fed to the LV DC supply in the radio?
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> If you power the dial lamps in the tuner from the LV DC source in the radio, as it appears you are considering based on your recent response comments, RF picked up by the dial lamp wiring in the AT-230 tuner can and will result in RF being imposed onto the entire LV DC supply. This will result in RFI on your speech amplifier which will lead to RF distortion on your transmit signal. Personally, I wouldn't do it. It all sounds like a good idea on the surface but there's too much of a risk for dial lamp power source wiring that can cause RFI in the radio's LV DC supply.
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>
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> > > From: TS-520_820_530_830@yahoogroups.com
> > > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Music Maker
> > > Sent: Friday, December 25, 2009 7:39 PM
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Subject: [TS-520_820_530_830] Re: VFO-820 Pilot Lamp
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> > > [Non-text portions of this message have been removed]
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24155. Re: What happened to all the ops

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-26 06:39:52 UTC
From: Bernie
Topic: 24155 Message: 24155

The thought just hit me after going through all the amateur adds on ebay selling their equipment - all the ops must be in this group because most of the stuff being sold is from estates. I'm starting to wonder if being an amateur op is a safe hobby. hihi

Bernie in MI

24156. Re: VFO-820 Pilot Lamp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-26 18:26:19 UTC
From: w5rkl
Topic: 24137 Message: 24156

Bob,

Replacing incandescent dial lamps in the 820 itself does not require RFI protection. Those LED may be nice but I personally don't care for a bright LED lighting up the meter and dial. I can see both just fine with inexpensive easy to install incandescent dial lamps.

The VFO-820 already has a dial lamp, same as in the TS-820 and in the same place. The VFO-820 is the same VFO that is inside the TS-820. The dial assembly and the VFO are exactly the same. You can remove the VFO and dial assembly from the VFO-820 and put it inside the TS-820 without any modifications or changes!

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "mathprof53575" <wilson@...> wrote:
>
>
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> > > > Sent: Friday, December 25, 2009 7:39 PM
> > > > To: TS-520_820_530_830@yahoogroups.com
> > > > Subject: [TS-520_820_530_830] Re: VFO-820 Pilot Lamp
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> > > > [Non-text portions of this message have been removed]
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24157. Repairs in Canada

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-26 18:08:31 UTC
From: davehumeniuk@rogers.com
Topic: 24157 Message: 24157

I have a TS520 that is causing me some problems and I just don't have the time with my work schedule to look at it. Is there someone located in Canada and preferably in Southern Ontario that is reliable to work on these rigs?

24158. Re: What happened to all the ops

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-26 18:48:52 UTC
From: w5rkl
Topic: 24155 Message: 24158

I visit a lot of ham forums such as qrz.com, eham.net, and qth.net and read a lot of the messages posted on these forum. I can honestly say when someone asks a question about their Kenwood hybrid, whether it is a TS-520, TS-530, TS-820, or a TS-830, in almost every case, the person asking the question is referred to this forum! That simple referral, in itself, speaks highly of this forum!

73s
Mike W5RKL
Happy Holidays

--- In TS-520_820_530_830@yahoogroups.com, "Bernie" <pizzameister2001@...> wrote:
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24159. Re: [TS-520_820_530_830] Re: VFO-820 Pilot Lamp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-26 18:57:41 UTC
From: martin
Topic: 24137 Message: 24159

Hi John. I know its nice to have the meter lighted in a tuner. Some of the current MFJ tuners unclude a meter light, only requiring an external power source. However, I think that others here are correct that trying to power an LED from your radio may cause problems due to RF pickup in the wiring.

My MFJ 941D tuner did not include a meter light...so I added one. Actually two, one red, and the other green. I used colored 12V bulbs from Radio shack. I added a single pole double throw switch with a center off position so that I can select the color that I want. The bulbs are powered from a float charged 12V battery that I can use to run my solid state radios if mains power goes out.

In your case, I suggest using an external power supply. The current drain with an LED is small enough that you could use almost any small supply that you are using for anything else in the shack, or even a plug in transformer (we call them wall worts here) type supply.

The factory meter and dial lights in my TS-130SE have a slightly green cast, and I like that. I have thought about replacing the bulbe in my radios with LEDs, just have never gotten serious about it.

Just my thoughts...

TTYL

Music Maker wrote:
> Hi Dick .....
>
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> Load
>> at ... http://www.John4Mus <http://www.John4Music.TV/27.html>
> ic.TV/27.html
>> Happy Holiday to all,
>>
>> John G3OBU
>>
>>
> ....\
> \
> ....\
> \
>> ....
>> --- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
>> 830@yahoogroups.com, "brad_kd5zat" bjpenn@
>> wrote:
>>> Merry Christmas Everyone,
>>>
>>> I have a VFO-820 that I recently purchased on Ebay. The dial lamp is
>> burned out. Does anyone know of a replacement for this lamp. It is a
>> 12vac, 40ma lamp. The Kenwood part # is B30-0079-05.
>>> Any help would be greatly appreciated.
>>>
>>> Brad
>>> KD5ZAT
>>>
>>
>>
>>
>>
>>
>> [Non-text portions of this message have been removed]
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> ------------------------------------
>
> Yahoo! Groups Links
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--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

24160. TS-530S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-27 00:38:35 UTC
From: kb3kcj60
Topic: 20 Message: 24160

Anyone know of a filtering mod or anything of the like. I am a member of the Coastal Carolina Emergency Net on 3.907 and live in Pennsylvania. The 3.910 crowd runs audio wide open and splatters from 3.910 to 3.902. If there is something I can do to alleviate some of this nonsense I would like to know - PLEASE. I am open to and appreciative of all inputs.

By the way - HAPPY NEW YEAR TO ALL!

24161. Re: [TS-520_820_530_830] TS-530S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-27 01:30:56 UTC
From: martin
Topic: 20 Message: 24161

Hi. If they are over-driving and splattering that much, there isn't much you can do. A narrow SSB filter may help a little, but probably not much with such a situation. The Iowa Traffic net on 3970Khz has a similar problem with a group on 3685Khz. Especially with one lid that runs full legal limit all the time, and has a dirty, overdriven signal besides.

Has the net control ever asked them to back off the mic gain? I know with most lids like you describe, it wouldn't help though. In the case of the group and the individual I described above, they know that they are interfering, and seem to be doing it on purpose. This is from comments that I and others have heard many times from them.

I really do wish that more U.S. Amateurs would pay more attention to the FCC rule that requires the use of the minimum power necessary! And that doesn't mean the minimum power necessary to have an S9+60db signal at their good buddy's location. Better yet, the FCC could drop the power limits from 1500 watts PEP to 300-400 watts PEP!

TTYL

kb3kcj60 wrote:
> Anyone know of a filtering mod or anything of the like. I am a
> member of the Coastal Carolina Emergency Net on 3.907 and live in
> Pennsylvania. The 3.910 crowd runs audio wide open and splatters
> from 3.910 to 3.902. If there is something I can do to alleviate
> some of this nonsense I would like to know - PLEASE. I am open to
> and appreciative of all inputs.
>
> By the way - HAPPY NEW YEAR TO ALL!
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

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24162. Re: VFO-820 Pilot Lamp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-27 02:32:33 UTC
From: Music Maker
Topic: 24137 Message: 24162

Thanks everyone,

What a great Group, and what a wealth of talent is available for us lesser mortals to 'brain pick' !!!

I think - following the advice given, that I will have to 'grin and bear' the dim lighting on my 520SE, and no meter light on the AT 230 ATU. but perhaps Martins suggestion of mounting a 9v PP6 battery inside the ATU for a LED lamp for the ATU meter would be a self-contained and viable option - perhaps with just a mini switch on the back of the ATU - I will buy a Battery and LED and do some experimenting with temporary trial positioning and whether RF does affeect the wires between the battery and LED via the switch inside the ATU is a reality.

Once again - thanks guys for your kind and practical advice.

De

John G3OBU

--- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@...> wrote:
>
> Hi John. I know its nice to have the meter lighted in a tuner. Some
> of the current MFJ tuners unclude a meter light, only requiring an
> external power source. However, I think that others here are correct
> that trying to power an LED from your radio may cause problems due to
> RF pickup in the wiring.
>
> My MFJ 941D tuner did not include a meter light...so I added one.
> Actually two, one red, and the other green. I used colored 12V bulbs
> from Radio shack. I added a single pole double throw switch with a
> center off position so that I can select the color that I want. The
> bulbs are powered from a float charged 12V battery that I can use to
> run my solid state radios if mains power goes out.
>
> In your case, I suggest using an external power supply. The current
> drain with an LED is small enough that you could use almost any small
> supply that you are using for anything else in the shack, or even a
> plug in transformer (we call them wall worts here) type supply.
>
> The factory meter and dial lights in my TS-130SE have a slightly green
> cast, and I like that. I have thought about replacing the bulbe in my
> radios with LEDs, just have never gotten serious about it.
>
> Just my thoughts...
>
> TTYL

>
> Music Maker wrote:
> > Hi Dick .....
> >
> > Thank you for the speedy response, and your interest.
> >
> > The AT 230 is an Antenna Tuning Unit not a VFO (Wish I had one !!) .....
> > I understand your concerns about hole drilling, but the alternative
> > would be still to drill a hole in the back of the Transceiver and the
> > AT 230 to fit sockets for an interconnecting lead.
> >
> > I am sure also that fitting green or blue lighting in both units would
> > also de-value, but I operate in a dimly lit area, and the meters need
> > some stronger illumination! - That means heat, and why I thought of
> > LED's ... if LED's - why not coloured? was the next thought !!
> > This is possibly sacrilege to some members, as we are striving to keep
> > these tranceivers on the air as 'working museum pieces', and they should
> > be as 'original' as possible, !! LOL
> >
> > Others thoughts appreciated.
> >
> > de
> >
> > John G3OBU
> >
> >
> >
> > ....\
> > ....\
> > ...
> > --- In TS-520_820_530_830@yahoogroups.com, "Dick Merryman" <dicko@>
> > wrote:
> >> John-
> >>
> >> Don't drill a hole as it will affect the resale value of your unit.
> > Matter
> >> of fact, adding a lamp would change the value. However, if you are
> >> determined to illuminate your VFO then why not use a LED from the 9V
> > supply
> >> in theVvFO?
> >>
> >> Thinking about it, I have a VFO 520 and a VFO 230 and they are both
> > lighted.
> >> Are you sure that your's is not?
> >>
> >> The very best of the new year to you and yours,
> >>
> >> -Dick-
> >> N3XRU
> >>

> >> _____
> >>
> >> From: TS-520_820_530_830@yahoogroups.com
> >> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Music Maker
> >> Sent: Friday, December 25, 2009 7:39 PM
> >> To: TS-520_820_530_830@yahoogroups.com
> >> Subject: [TS-520_820_530_830] Re: VFO-820 Pilot Lamp
> >>
> >>
> >>
> >>
> >> Hi Folks - I hope by now, the effects of the extra large Christmas
> >> Dinner has worn off !! (Its 2.30am 26 Dec, and I am still 'Bloated!).
> >>
> >> Off Topic a little - What about the Pilot Lights on the Meter and Dial
> >> on the TS 520SE?
> >>
> >> Mine are working fine, but I want to do a little modiification - based
> >> around the fact that there is no Dial Light in the AT-230 Tuner, and I
> >> would like to run power for a lighted meter through the back of the
> > unit
> >> (Small hole and rubber Grommet?). at the back - so I thought 'Hmmm!
> > The
> >> Dial and Tuning Lights in the Transceiver are a bit dim - so why don't
> > I
> >> change them for either Green or Blue LED's ? (and of course, the
> > AT-230
> >> Meter to match).
> >>
> >> Has anyone done this? Is there anything I need to know, beyond hooking
> >> up the 13.8V feed from the INSIDE of the 520SE (I am using the
> > external
> >> socket for the DG-5!) - to the LED's.
> >>
> >> View my Mod in Pictures, to the AT230 to install an internal Dummy
> > Load
> >> at ... http://www.John4Mus <http://www.John4Music.TV/27.html>
> > ic.TV/27.html
> >> Happy Holiday to all,
> >>
> >> John G3OBU
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> >> wrote:
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> >>> Any help would be greatly appreciated.
> >>>
> >>> Brad
> >>> KD5ZAT
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> >> [Non-text portions of this message have been removed]
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> CUL8R
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> KBOHAE kb0hae@... Martin Campbell
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>

24163. Digital Modes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-27 03:15:44 UTC
From: Music Maker
Topic: 24163 Message: 24163

Hi Folks,

Just starting back in Amateur Radio after a VERY long absence. Digital to me - when I last Operated was a Creed 7b working RTTY !! Anyone remember these old 'Clatterers' ??

Now - PSK, with a computer - Geez!!! great stuff - and at 74 years old, what a challenge to my one remaining brain cell, learning about it all - with no-one to lean on. A very steep learning curve !!

At present, I have FOUR programs running in my computer - Winwarbler, MULTIPSK, Fldigi and Digipan. I am trying to evaluate the relative merits of these 'side by side' - At present, I prefer Digipan, I think.

At this moment I am only listening, connected Rig to 'Line In', but have ordered a digital interface and a serial to USB converter, and will then have transmit capability.

Only thing puzzling me - is how to get my 520 SE's output down to 20 or 30 Watts - I believe that somewhere, I read that I can externally wire a 9V battery into a couple of spigots on an external socket on the transceiver to put a negative voltage to the Grid of the driver Valve. I really have so many questions, but its all the more fun to struggle my way through all the information on the net, than take the easy way, asking loads of questions on here !!

Like many of you, I feel that 'Macros' should be consigned to the bin - with all that useless and irrevelent and boring stuff that gets sent over and over to constitute a QSO. However - on reflection - there is another side to this. Here in UK, I am listening only to I, F, D, R, O stations, who probably can't speak English. But really - how impersonal to just conduct a QSO with just a string of Macros both ways - Whats the point? - Whats the Purpose?, a total waste of bandwidth, electricity and time - in my opinion. Macros, just one or two used sensibly are fine (such as CQ calling), so I guess, when I eventually get transmitting, and actually TYPING it will really throw them, when they can't respond with a Macro back that would be a response to my over, as I would start 'ragchewing' HI HI !!!!

Finally (at the end of this epistle!), I am looking for an external VFO (the 520), if anyone has one, or can look out for me in the US. as I have never seen one come up for sale on Ebay here. I would be interested in a 'clean' one, even if 'Dead', that I could work on.

Seasonal Greetings to all,
De
John G3OBU

24164. Re: [TS-520_820_530_830] Digital Modes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-27 04:03:04 UTC
From: John Schroeder
Topic: 24163 Message: 24164

Did you ever try MixW? Quite a program... Sorta the Swiss Army Knife of digital programs... Yes, it cost's 50 bucks, but once you have it, upgrades are free... And, once it is setup you can almost carry on a QSO just by hitting function buttons... Just a thought...

John ... KB9PBM ...

--- On Sat, 12/26/09, Music Maker <jhaddleton@...> wrote:

From: Music Maker <jhaddleton@...>
Subject: [TS-520_820_530_830] Digital Modes
To: TS-520_820_530_830@yahoogroups.com
Date: Saturday, December 26, 2009, 9:15 PM

Hi Folks,

Just starting back in Amateur Radio after a VERY long absence. Digital to me - when I last Operated was a Creed 7b working RTTY !! Anyone remember these old 'Clatterers' ??

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Only thing puzzling me - is how to get my 520 SE's output down to 20 or 30 Watts - I believe that somewhere, I read that I can externally wire a 9V battery into a couple of spigots on an external socket on the transceiver to put a negative voltage to the Grid of the driver Valve. I really have so many questions, but its all the more fun to struggle my way through all the information on the net, than take the easy way, asking loads of questions on here !!

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on Ebay here. I would be interested in a 'clean' one, even if 'Dead', that I could work on.

Seasonal Greetings to all,
De
John G3OBU

[Non-text portions of this message have been removed]

24165. Re: [TS-520_820_530_830] Digital Modes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-27 05:07:56 UTC
From: Don Thomas
Topic: 24163 Message: 24165

There has been several post in the past about setting the ALC with a 9 volt battery. I've never done it before so someone else will have to step up on that. I've ran PSK on my Heathkit HW-101 in the past. Just tune up your radio normally and then turn the mic gain down. Using the audio level control in the computer and the radio mic gain, adjust the audio level into to the radio to set the TX RF level. Low audio in equals low RF out. Easy to run at low levels with soundcard audio that way.

Don T.

--- On Sat, 12/26/09, Music Maker <jhaddleton@...> wrote:

Only thing puzzling me - is how to get my 520 SE's output down to 20 or 30 Watts - I believe that somewhere, I read that I can externally wire a 9V battery into a couple of spigots on an external socket on the transceiver to put a negative voltage to the Grid of the driver Valve. I really have so many questions, but its all the more fun to struggle my way through all the information on the net, than take the easy way, asking loads of questions on here !!

[Non-text portions of this message have been removed]

24166. RE: [TS-520_820_530_830] Digital Modes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-27 07:14:57 UTC
From: Dick Merryman
Topic: 24163 Message: 24166

John-

PSK runs in SSB mode and in that mode the power output is directly proportional to the audio in. By adjusting the output of your sound card using the Windows sound adjustments you can vary your xmtr power output from a few milliwatts to full power.

The 9V battery bias trick is only necessary in CW mode which are not used in the digital modes such as PSK and RTTY.

-Dick-
N3XRU

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Music Maker
Sent: Saturday, December 26, 2009 7:16 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Digital Modes

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Seasonal Greetings to all,
De
John G3OBU

[Non-text portions of this message have been removed]

24167. Re: Digital Modes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-27 07:15:30 UTC
From: sv0xbq
Topic: 24163 Message: 24167

Hi John,

You don't need to modify your 520 for low power bpsk transmission. Tune for full power as normal and then use the mic control to limit Ip to just over 100 mA when you transmit. This will give you around 30 watts out. Also you don't need a usb connection. Connect the sound card mic and line in to the two phone sockets on the rear of your 520 via an interface and use vox on transmit. (I've also connected directly to an old laptop without an interface and operated for weeks with that setup with no problems. I wouldn't recommend it though). I use Digipan and I'm not familiar with any other programs. With Digipan, I use macros to start a QSO. The flashing cursor sits on the end of the macro text being transmitted so you can then continue with the keyboard. When finished I end with a macro. A bit like a morse qso. Being located in Greece, I can often only get eastern European stations at this time of the year. I use the keyboard but if I get an obvious macro response I continue with macros. A lot of stations here don't have good English or they want a quick qso and then want to move on. I little something that you may be aware of but it's worth mentioning. Text sent in lower case is sent faster than upper case so I leave the caps lock off.

73 Chris SV0XBQ/9

--- In TS-520_820_530_830@yahoogroups.com, "Music Maker" <jhaddleton@...> wrote:
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> Hi Folks,
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> Just starting back in Amateur Radio after a VERY long absence. Digital to me - when I last Operated was a Creed 7b working RTTY !! Anyone remember these old 'Clatterers' ??
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>
> Seasonal Greetings to all,
> De
> John G3OBU
>

24168. Re: [TS-520_820_530_830] Re: Digital Modes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-27 07:43:19 UTC
From: Chuck Goelz
Topic: 24163 Message: 24168

John,

Chris raised a good point about lower case being faster than upper case... Unlike ASCII, PSK uses "Varicode" character representation, and frequently used characters are sent using fewer bits. All upper case characters are transmitted using more bits than their lower case equivalents (I think Samuel Morse had the same idea !!). I know I have a file saved somewhere that shows the actual codes used for each character, and will share it if I find it...

Meanwhile, I'll have to work on my macros to make them more English friendly. Mostly, they are written in American, but I do speak both. I can open the bonnet on my car to check the engine. I can put the hood down to enjoy the wind in my hair. I can put my bags in the boot, and carry bits and spares as well. Well, I have to carry spares because I drive a 1958 MGA (not in THIS weather, though!). And I look forward to my next visit to see my friends in Basildon, Essex, and in Nantymole, Wales...

I hope everyone here has had a wonderful Christmas, and will have a happy new year!

Cheers & 73,
Chuck WA3CEJ

----- Original Message -----
From: sv0xbq
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, December 27, 2009 2:15 AM
Subject: [TS-520_820_530_830] Re: Digital Modes

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> Only thing puzzling me - is how to get my 520 SE's output down to 20 or 30 Watts - I believe that somewhere, I read that I can externally wire a 9V battery into a couple of spigots on an external socket on the transceiver to put a negative voltage to the Grid of the driver Valve. I really have so many questions, but its all the more fun to struggle my way through all the information on the net, than take the easy way, asking loads of questions on here !!
>
> Like many of you, I feel that 'Macros' should be consigned to the bin - with all that useless and irrevelent and boring stuff that gets sent over and over to constitute a QSO. However - on reflection - there is another side to this. Here in UK, I am listening only to I, F, D, R, O stations, who probably can't speak English. But really - how impersonal to just conduct a QSO with just a string of Macros both ways - Whats the point? - Whats the Purpose?, a total waste of bandwidth, electricity and time - in my opinion. Macros, just one or two used sensibly are fine (such as CQ calling), so I guess, when I eventually get transmitting, and actually TYPING it will really throw them, when they can't respond with a Macro back that would be a response to my over, as I would start 'ragchewing' HI HI !!!!
>
> Finally (at the end of this epistle!), I am looking for an external VFO (the 520), if anyone has one, or can look out for me in the US. as I have never seen one come up for sale on Ebay here. I would be interested in a 'clean' one, even if 'Dead', that I could work on.
>
> Seasonal Greetings to all,
> De
> John G3OBU
>

[Non-text portions of this message have been removed]

24169. RE: [TS-520_820_530_830] Digital Modes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-27 07:51:52 UTC
From: Adrian Ellison
Topic: 24163 Message: 24169

This is very not true Dick,

The 9V battery bias trick is only necessary for SSB, to facilitate power reduction with ALC still operational.

In CW it is usual to back the CAR control off so that the ALC is not operating anyway, as this gives cleaner keying, and you can back it off as much as you wish, and likewise for Digital modes, you don't want to see any ALC on Digital modes, so you'd back the MIC control off at least until there's no ALC reading, and further down to reduce power as required.

So, for CW and Digital modes, tune up in the normal way, with the ALC limiting maximum power, then back the CAR/MIC controls as required.

Regards

Adrian - ZS1TTZ

On Sunday 27 December 2009 09:14:57 you wrote:

> The 9V battery bias trick is only necessary in CW mode which are not used in
> the digital modes such as PSK and RTTY.
>
> -Dick-
> N3XRU
>

24170. RE: [TS-520_820_530_830] Re: So.. who's the king of hybrids?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-27 10:54:50 UTC
From: Andrea Liverani
Topic: 24089 Message: 24170

hi, don't you think that ft-101ZD sounds a little muffled in comparison with
kenwood hybrids?
I both have FT-101ZD (mark II) and FT-902DM and even if they are wonderful
radios in many aspects, i prefer to use the KHYB (Kenwood Hybrids) for ragchewing..
but i have to say that ft-101E has a very pleasant audio.
Actually my preferred one is ts-820S even if i am finishing it's restoration..

To: TS-520_820_530_830@yahoogroups.com
From: kaygross@onlinehome.de
Date: Fri, 25 Dec 2009 23:43:53 +0100
Subject: Re: [TS-520_820_530_830] Re: So.. who's the king of hybrids?

Hello to all,

my favorite rig is the TS830 followed by the FT101ZD mark3,

but that is not a Kenwood,hi.Both used every day.

Happy holidays and Merry Christmas from Germany

73 Kay DL5OAQ

www.pbase.com/dl5oaq

----- Original Message -----

From: w0szv

To: TS-520_820_530_830@yahoogroups.com

Sent: Friday, December 25, 2009 3:44 PM

Subject: [TS-520_820_530_830] Re: So.. who's the king of hybrids?

Still have my two favorites. TS830s and a Pair of 599D's with matching speaker. would be
hard pressed to make a choice between them.

--- In TS-520_820_530_830@yahoogroups.com, Andrea Liverani <andrealiverani@...> wrote:

>

>

>

> I like 520 for it's minimal look and semplicity.

>

> 520S/SE for 160 meters and several improovements.

>

> TS-820 is the heaviest and definitely the flagship of the lot .

>

> 530 it's said to have a quiet receiver , good performance and warc

>

> And 830 is the latest and more sophisticated hybrid produced by kenwood

> even if is small and light in comparison with the previous models...

>

> if i have just to save one of them , would be a very difficult choice...

>

> and for u?

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> ---

> 25 Gigabyte per le tue foto online

> http://www.windowslive.it/foto.aspx

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Di che umore sei oggi? Dillo con le Emoticon
http://intrattenimento.it.msn.com/emoticon

[Non-text portions of this message have been removed]

24171. Re: [TS-520_820_530_830] Digital Modes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-27 06:13:39 UTC
From: Chuck Goelz
Topic: 24163 Message: 24171

John,

I agree with Don Thomas' comments about the soundcard output level and mic gain. Adjust your mic gain down till the ALC indicates zero, then turn it down a just a little bit further!

I'm interested in your evaluation of the digital software that you are trying. Please let us all know how they compare, and their strengths and weaknesses!! Hope to see your callsign on the waterfall some day...

Cheers, 73,

Chuck WA3CEJ

----- Original Message -----
From: Music Maker
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, December 26, 2009 10:15 PM
Subject: [TS-520_820_530_830] Digital Modes

Hi Folks,

Just starting back in Amateur Radio after a VERY long absence. Digital to me - when I last Operated was a Creed 7b working RTTY !! Anyone remember these old 'Clatterers' ??

Now - PSK, with a computer - Geez!!! great stuff - and at 74 years old, what a challenge to my one remaining brain cell, learning about it all - with no-one to lean on. A very steep learning curve !!

At present, I have FOUR programs running in my computer - Winwarbler, MULTIPSK, Fldigi and Digipan. I am trying to evaluate the relative merits of these 'side by side' - At present, I prefer Digipan, I think.

At this moment I am only listening, connected Rig to 'Line In', but have ordered a digital interface and a serial to USB converter, and will then have transmit capability.

Only thing puzzling me - is how to get my 520 SE's output down to 20 or 30 Watts - I believe that somewhere, I read that I can externally wire a 9V battery into a couple of spigots on an external socket on the transceiver to put a negative voltage to the Grid of the driver Valve. I really have so many questions, but its all the more fun to struggle my way through all the information on the net, than take the easy way, asking loads of questions on here !!

Like many of you, I feel that 'Macros' should be consigned to the bin - with all that useless and irrevelent and boring stuff that gets sent over and over to constitute a QSO. However - on reflection - there is another side to this. Here in UK, I am listening only to I, F, D, R, O stations, who probably can't speak English. But really - how impersonal to just conduct a QSO with just a string of Macros both ways - Whats the point? - Whats the

Purpose?, a total waste of bandwidth, electricity and time - in my opinion. Macros, just one or two used sensibly are fine (such as CQ calling), so I guess, when I eventually get transmitting, and actually TYPING it will really throw them, when they can't respond with a Macro back that would be a response to my over, as I would start 'ragchewing' HI HI !!!!

Finally (at the end of this epistle!), I am looking for an external VFO (the 520), if anyone has one, or can look out for me in the US. as I have never seen one come up for sale on Ebay here. I would be interested in a 'clean' one, even if 'Dead', that I could work on.

Seasonal Greetings to all,
De
John G3OBU

[Non-text portions of this message have been removed]

24172. Re: So.. who's the king of hybrids?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-27 12:22:14 UTC
From: g4fui
Topic: 24089 Message: 24172

I love this kind of debate! It really ought to take place after your radio club's "natter night" when all and sundry have had a couple of beers!

I really wouldn't like to offer a definitive answer, as each marqe made its own contribution to producing memorable kit.

From my own collection I would say

TS520 really set the performance standard, and absolute classic, the 820 of course was the "Rolls Royce" version of this radio. (OK I regret selling my '820 now!)

FT101 (pre 'ZD) developed in response to user feedback.

FT901/2 tried to be a "professional" (ie few cost-saving shortcuts)logical development of the '101.

FT101Z series, cost reduced version of 901/2 but (like the earlier '101) series responded to user feedback and improved and improved culminating in the '101ZD Mark III (one of my personal favourites)

Meanwhile Trio/Kenwood's 530 series and the 830 (very clever dual-conversion RX with IF width control) were a carefully considered development of the 520 series.

And you mustn't disregard the FT102 with it's "big boots" PA and IF width control which was presumably a response to the '830.

And don't forget that the WARC 79 bands coming along really forced the manufacturers' hands in having to tool up for this challenge.

It's a bit like being asked "who is your favourite child?"

Great fun and encourages one to put everything in perspective.

For me I reckon (today) that the TS830 gets my vote 55:45 versus the FT-101ZD Mk III.

Tomorrow I would probably decide the other way!

Martin - G4FUI

--- In TS-520_820_530_830@yahoogroups.com, Andrea Liverani <andrealiverani@...> wrote:
>
>
> hi, don't you think that ft-101ZD sounds a little muffled in comparison with
> kenwood hybrids?
> I both have FT-101ZD (mark II) and FT-902DM and even if they are wonderful
> radios in many aspects, i prefer to use the KHYB (Kenwood Hybrids) for ragchewing..
> but i have to say that ft-101E has a very pleasant audio.
> Actually my preferred one is ts-820S even if i am finishing it's restoration..
>

> To: TS-520_820_530_830@yahoogroups.com
> From: kaygross@...
> Date: Fri, 25 Dec 2009 23:43:53 +0100
> Subject: Re: [TS-520_820_530_830] Re: So.. who's the king of hybrids?
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> Hello to all,
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>
> my favorite rig is the TS830 followed by the FT101ZD mark3,
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> but that is not a Kenwood,hi.Both used every day.
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>
> Happy holidays and Merry Christmas from Germany
>
>
>
> 73 Kay DL5OAQ
>
>
>

> www.pbase.com/dl5oaq
>
> ----- Original Message -----
>
> From: w0szv
>
> To: TS-520_820_530_830@yahoogroups.com
>
> Sent: Friday, December 25, 2009 3:44 PM
>
> Subject: [TS-520_820_530_830] Re: So.. who's the king of hybrids?
>
>
>
> Still have my two favorites. TS830s and a Pair of 599D's with matching speaker. would be hard pressed to make a choice between them.
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> --- In TS-520_820_530_830@yahoogroups.com, Andrea Liverani <andrealiverani@> wrote:
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> > I like 520 for it's minimal look and semplicity.
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> > 520S/SE for 160 meters and several improovements.
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> > TS-820 is the heaviest and definitely the flagship of the lot .
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> > 530 it's said to have a quiet receiver , good performance and warc
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> > And 830 is the latest and more sophisticated hybrid produced by kenwood
>
> > even if is small and light in comparison with the previous models...
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> > if i have just to save one of them , would be a very difficult choice...

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> > and for u?
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> > 25 Gigabyte per le tue foto online
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> > http://www.windowslive.it/foto.aspx
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> Di che umore sei oggi? Dillo con le Emoticon
> http://intrattenimento.it.msn.com/emoticon
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> [Non-text portions of this message have been removed]
>

24173. Re: TS-530S

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-27 14:52:09 UTC
From: WimP
Topic: 20 Message: 24173

back your HF gain down as far as possible, choose a narrow filter and with the use of passband tuning, you can get rid of most of these morons. We suffer from the same kind of "amateurs" overhere, but sad to say, otherwise you can't do much at your end.

Happy newyear to all
73, Wim PA0PGA

--- In TS-520_820_530_830@yahoogroups.com, "kb3kcj60" <kb3kcj60@...> wrote:
>
> Anyone know of a filtering mod or anything of the like. I am a member of the Coastal Carolina Emergency Net on 3.907 and live in Pennsylvania. The 3.910 crowd runs audio wide open and splatters from 3.910 to 3.902. If there is something I can do to alleviate some of this nonsense I would like to know - PLEASE. I am open to and appreciative of all inputs.
>
> By the way - HAPPY NEW YEAR TO ALL!
>

24174. Re: VFO-820 Pilot Lamp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-27 15:04:54 UTC
From: WimP
Topic: 24137 Message: 24174

John,

I have a AT-200 (the nonWARC version of the AT-230), that I use for all my antenna switching and tuning. Max power here around 100 Watts.
When I bought the tuner a previous owner had modified it to include a lamp above the meter. The lamp is fed by an external adapter, the same I use for an homemade external VFO for my Yaesu's.
I never had any problem with RF feedback or other troubles.
If you want to be sure just put in two 10nf condensers between the wires and ground, that will take care of any HF, but I never needed them.

If you have the tuner open, carefully check the connections: in mine I found at least 4 connections that were made but not soldered.
(Maybe a Mondaymorning product) That was maybe the reason I got it really cheap (just 25 euro's).............

Just my 2c

73, Wim PA0PGA

--- In TS-520_820_530_830@yahoogroups.com, "Music Maker" <jhaddleton@...> wrote:
>
> Thanks everyone,
>
> What a great Group, and what a wealth of talent is available for us lesser mortals to 'brain pick' !!!
>
> I think - following the advice given, that I will have to 'grin and bear' the dim lighting on my 520SE, and no meter light on the AT 230 ATU. but perhaps Martins suggestion of mounting a 9v PP6 battery inside the ATU for a LED lamp for the ATU meter would be a self-contained and viable option - perhaps with just a mini switch on the back of the ATU - I will buy a Battery and LED and do some experimenting with temporary trial positioning and whether RF does affeect the wires between the battery and LED via the switch inside the ATU is a reality.
>
> Once again - thanks guys for your kind and practical advice.
>
> De
>
> John G3OBU
>
> --- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@> wrote:
> >
> > Hi John. I know its nice to have the meter lighted in a tuner. Some
> > of the current MFJ tuners unclude a meter light, only requiring an
> > external power source. However, I think that others here are correct

> > that trying to power an LED from your radio may cause problems due to
> > RF pickup in the wiring.
> >
> > My MFJ 941D tuner did not include a meter light...so I added one.
> > Actually two, one red, and the other green. I used colored 12V bulbs
> > from Radio shack. I added a single pole double throw switch with a
> > center off position so that I can select the color that I want. The
> > bulbs are powered from a float charged 12V battery that I can use to
> > run my solid state radios if mains power goes out.
> >
> > In your case, I suggest using an external power supply. The current
> > drain with an LED is small enough that you could use almost any small
> > supply that you are using for anything else in the shack, or even a
> > plug in transformer (we call them wall worts here) type supply.
> >
> > The factory meter and dial lights in my TS-130SE have a slightly green
> > cast, and I like that. I have thought about replacing the bulbe in my
> > radios with LEDs, just have never gotten serious about it.
> >
> > Just my thoughts...
> >
> > TTYL
> >
> > Music Maker wrote:
> > > Hi Dick .....
> > >
> > > Thank you for the speedy response, and your interest.
> > >
> > > The AT 230 is an Antenna Tuning Unit not a VFO (Wish I had one !!) .....
> > > I understand your concerns about hole drilling, but the alternative
> > > would be still to drill a hole in the back of the Transceiver and the
> > > AT 230 to fit sockets for an interconnecting lead.
> > >
> > > I am sure also that fitting green or blue lighting in both units would
> > > also de-value, but I operate in a dimly lit area, and the meters need
> > > some stronger illumination! - That means heat, and why I thought of
> > > LED's ... if LED's - why not coloured? was the next thought !!
> > > This is possibly sacrilege to some members, as we are striving to keep
> > > these tranceivers on the air as 'working museum pieces', and they should
> > > be as 'original' as possible, !! LOL
> > >
> > > Others thoughts appreciated.
> > >
> > > de
> > >
> > > John G3OBU
> > >
> > >
> > >
> > > ....\

> > > .....\
> > > ...
> > > --- In TS-520_820_530_830@yahoogroups.com, "Dick Merryman" <dicko@>
> > > wrote:
> > >> John-
> > >>
> > >> Don't drill a hole as it will affect the resale value of your unit.
> > > Matter
> > >> of fact, adding a lamp would change the value. However, if you are
> > >> determined to illuminate your VFO then why not use a LED from the 9V
> > > supply
> > >> in theVvFO?
> > >>
> > >> Thinking about it, I have a VFO 520 and a VFO 230 and they are both
> > > lighted.
> > >> Are you sure that your's is not?
> > >>
> > >> The very best of the new year to you and yours,
> > >>
> > >> -Dick-
> > >> N3XRU
> > >>
> > >> _____
> > >>
> > >> From: TS-520_820_530_830@yahoogroups.com
> > >> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Music Maker
> > >> Sent: Friday, December 25, 2009 7:39 PM
> > >> To: TS-520_820_530_830@yahoogroups.com
> > >> Subject: [TS-520_820_530_830] Re: VFO-820 Pilot Lamp
> > >>
> > >>
> > >>
> > >>
> > >> Hi Folks - I hope by now, the effects of the extra large Christmas
> > >> Dinner has worn off !! (Its 2.30am 26 Dec, and I am still 'Bloated!).
> > >>
> > >> Off Topic a little - What about the Pilot Lights on the Meter and Dial
> > >> on the TS 520SE?
> > >>
> > >> Mine are working fine, but I want to do a little modiification - based
> > >> around the fact that there is no Dial Light in the AT-230 Tuner, and I
> > >> would like to run power for a lighted meter through the back of the
> > > unit
> > >> (Small hole and rubber Grommet?). at the back - so I thought 'Hmmm!
> > > The
> > >> Dial and Tuning Lights in the Transceiver are a bit dim - so why don't
> > > I
> > >> change them for either Green or Blue LED's ? (and of course, the
> > > AT-230
> > >> Meter to match).

> > >>
> > >> Has anyone done this? Is there anything I need to know, beyond hooking
> > >> up the 13.8V feed from the INSIDE of the 520SE (I am using the
> > > external
> > >> socket for the DG-5!) - to the LED's.
> > >>
> > >> View my Mod in Pictures, to the AT230 to install an internal Dummy
> > > Load
> > >> at ... http://www.John4Mus <http://www.John4Music.TV/27.html>
> > > ic.TV/27.html
> > >> Happy Holiday to all,
> > >>
> > >> John G3OBU
> > >>
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> > >> .....
> > >> --- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> > >> 830@yahoogroups.com, "brad_kd5zat" bjpenn@
> > >> wrote:
> > >>> Merry Christmas Everyone,
> > >>>
> > >>> I have a VFO-820 that I recently purchased on Ebay. The dial lamp is
> > >> burned out. Does anyone know of a replacement for this lamp. It is a
> > >> 12vac, 40ma lamp. The Kenwood part # is B30-0079-05.
> > >>> Any help would be greatly appreciated.
> > >>>
> > >>> Brad
> > >>> KD5ZAT
> > >>>
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> > >> [Non-text portions of this message have been removed]
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> > > Yahoo! Groups Links
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> > CUL8R
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> > KBOHAE kb0hae@ Martin Campbell
> >
> > A Satisfied Sidux Linux user! To get Sidux go to:
> > www.sidux.com/index.html
> > "Protect your digital freedom and privacy, eliminate DRM, learn more
> > at http://www.defectivebydesign.org/what_is_drm"
> >
>

24175. TS830S digital readout

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-27 10:04:31 UTC
From: Victor
Topic: 24175 Message: 24175

Hi all
Having problems with the readout again. Once again it locks on the lowest readout on each band (e.g.13500.0)and will not move. Also the led VFO light stays off.
If I switch Fix on the readout goes blank and the Fix light comes on switch back to VFO and again the read out comes back on but is still locked and no VFO light.
I did notice that prior to this the VFO light used to flicker for a while before it stayed on.
Also, the DH button has no effect - doesn't do anything.
Seems to indicate that the VFO isn't working but the rig still tunes across the bands. I thought maybe the counter unit wasn't getting feed from the VFO. I have checked and cleaned all the connections but still the same.
Any ideas, please?
Hope you all had a good Christmas.
Vic - G4JSS

24176. Re: Digital Modes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-27 17:50:33 UTC
From: ah6rr1
Topic: 24163 Message: 24176

Aloha John,
Yes just use the Mic gain to get the output you need. As for programs Digipan is good but I have found DM780 that is bundled with Ham Radio Deluxe to be the best program I have used to date. I have tried them all including MixW ($50USD)and DM780 blows it away. Ham radio deluxe or HRD is as far as I am concerned the best Ham program out there it has a excellent loging program, a DX cluster that runs with the logging program and many other features that just make it very easy to use. It also has Rig control that will not work with the older kenwoods (I use it with my TS-850) but you would still have the logging and the DM780 to use and best of all it's FREE yes I Said FREE,
You can go here to check it out
http://www.ham-radio-deluxe.com/Downloads/tabid/54/Default.aspx
So have fun on the digital modes and I hope to see you on my waterfall.
73 and Happy New Year
Roland AH6RR

--- In TS-520_820_530_830@yahoogroups.com, "Music Maker" <jhaddleton@...> wrote:
>
>
> Hi Folks,
>
> Just starting back in Amateur Radio after a VERY long absence. Digital to me - when I last Operated was a Creed 7b working RTTY !! Anyone remember these old 'Clatterers' ??
>
> Now - PSK, with a computer - Geez!!! great stuff - and at 74 years old, what a challenge to my one remaining brain cell, learning about it all - with no-one to lean on. A very steep learning curve !!
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> At present, I have FOUR programs running in my computer - Winwarbler, MULTIPSK, Fldigi and Digipan. I am trying to evaluate the relative merits of these 'side by side' - At present, I prefer Digipan, I think.
>
> At this moment I am only listening, connected Rig to 'Line In', but have ordered a digital interface and a serial to USB converter, and will then have transmit capability.
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> Only thing puzzling me - is how to get my 520 SE's output down to 20 or 30 Watts - I believe that somewhere, I read that I can externally wire a 9V battery into a couple of spigots on an external socket on the transceiver to put a negative voltage to the Grid of the driver Valve. I really have so many questions, but its all the more fun to struggle my way through all the information on the net, than take the easy way, asking loads of questions on here !!
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> Like many of you, I feel that 'Macros' should be consigned to the bin - with all that useless and irrevelent and boring stuff that gets sent over and over to constitute a QSO. However - on reflection - there is another side to this. Here in UK, I am listening only to I, F, D, R, O stations, who probably can't speak English. But really - how impersonal to

just conduct a QSO with just a string of Macros both ways - Whats the point? - Whats the Purpose?, a total waste of bandwidth, electricity and time - in my opinion. Macros, just one or two used sensibly are fine (such as CQ calling), so I guess, when I eventually get transmitting, and actually TYPING it will really throw them, when they can't respond with a Macro back that would be a response to my over, as I would start 'ragchewing' HI HI !!!!
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> Finally (at the end of this epistle!), I am looking for an external VFO (the 520), if anyone has one, or can look out for me in the US. as I have never seen one come up for sale on Ebay here. I would be interested in a 'clean' one, even if 'Dead', that I could work on.
>
> Seasonal Greetings to all,
> De
> John G3OBU
>

24177. Re: TS830S digital readout

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-27 17:54:47 UTC
From: ah6rr1
Topic: 24175 Message: 24177

Sounds like a PLL board problem to me.
Roland AH6RR

--- In TS-520_820_530_830@yahoogroups.com, "Victor" <g4jss@...> wrote:
>
> Hi all
> Having problems with the readout again. Once again it locks on the lowest readout on each band (e.g.13500.0)and will not move. Also the led VFO light stays off.
> If I switch Fix on the readout goes blank and the Fix light comes on switch back to VFO and again the read out comes back on but is still locked and no VFO light.
> I did notice that prior to this the VFO light used to flicker for a while before it stayed on.
> Also, the DH button has no effect - doesn't do anything.
> Seems to indicate that the VFO isn't working but the rig still tunes across the bands. I thought maybe the counter unit wasn't getting feed from the VFO. I have checked and cleaned all the connections but still the same.
> Any ideas, please?
> Hope you all had a good Christmas.
> Vic - G4JSS
>

24178. Re: [TS-520_820_530_830] Digital Modes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-27 21:44:53 UTC
From: martin
Topic: 24163 Message: 24178

Hi John. Others have answered you question about setting the power output very well. My only addition is make sure the speech processor is off. As to using macros during PSK QSOs, I do use a few. Mainly for things that would otherwise have to be typed over and over again. Such as calling CQ, back to you, sign off and of course the infamous brag macro. Macros can be a good thing for those who are making contacts in a second language, or are poor typists (Like ME!)

My "brag" macro gives a brief description description of the equipment in use at the time. I don't go into any detail, just the rig, computer, antenna, and output power I am using. I know many people go into far too much detail about their station in their brag macro. I feel trhat such a macro is ok, if it is kept brief! If the other party wants more info about your station, they can ask.

I know that many hams are proud of their stations, but all macros should be kept as short as possible. Could I make a short contact using just the macros? Possibly. But even with my poor typing skills, I like to chat a bit.

TTYL

Music Maker wrote:
> Hi Folks,
>
> Only thing puzzling me - is how to get my 520 SE's output down to
> 20 or 30 Watts - I believe that somewhere, I read that I can
> externally wire a 9V battery into a couple of spigots on an
> external socket on the transceiver to put a negative voltage to the
> Grid of the driver Valve. I really have so many questions, but
> its all the more fun to struggle my way through all the information
> on the net, than take the easy way, asking loads of questions on
> here !!
>
> Like many of you, I feel that 'Macros' should be consigned to the
> bin - with all that useless and irrevelent and boring stuff that
> gets sent over and over to constitute a QSO. However - on
> reflection - there is another side to this. Here in UK, I am
> listening only to I, F, D, R, O stations, who probably can't speak
> English. But really - how impersonal to just conduct a QSO with
> just a string of Macros both ways - Whats the point? - Whats the
> Purpose?, a total waste of bandwidth, electricity and time - in my
> opinion. Macros, just one or two used sensibly are fine (such as
> CQ calling), so I guess, when I eventually get transmitting, and
> actually TYPING it will really throw them, when they can't respond
> with a Macro back that would be a response to my over, as I would

> start 'ragchewing' HI HI !!!!
>
> Seasonal Greetings to all, De John G3OBU
>
>
>
>
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>
> Yahoo! Groups Links
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>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Sidux Linux user! To get Sidux go to:
www.sidux.com/index.html
"Protect your digital freedom and privacy, eliminate DRM, learn more
at http://www.defectivebydesign.org/what_is_drm"

24179. Re: TS830S digital readout

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-27 22:32:21 UTC
From: w5rkl
Topic: 24175 Message: 24179

Vic and Roland,

Vic said the receiver can be tuned from one end of the band to the other. If that is true for all bands then the VFO and PLL units are both working.

The FIXED button controls 9VDC that powers the VFO, both FIXED and VFO LEDs, and the crystal oscillator (Q37 and Q38() on the PLL UNIT.

With the FIXED button NOT pressed, 9VDC is applied to the VFO plug pin 3 to power the VFO and to the VFO LED, turning the VFO LED "ON". The crystal oscillator, Q37 and Q38, do not work and the FIXED LED is turned "OFF". This is normal.

With the FIXED button pressed, 9VDC is applied to the PLL UNIT crystal oscillator, Q37 and Q38, through PLL UNIT plug 8 pin 8 and to the FIXED LED turning the FIXED LED "ON". The VFO does not work and VFO LED is turned "OFF". This is normal.

I recommend checking the COUNTER UNIT's reference oscillator. See page 35 item 8. A frequency counter is required for this measurement.

73s
Mike W5RKL
Happy Holidays

--- In TS-520_820_530_830@yahoogroups.com, "ah6rr1" <Toesonnose@...> wrote:
>
> Sounds like a PLL board problem to me.
> Roland AH6RR
>
> --- In TS-520_820_530_830@yahoogroups.com, "Victor" <g4jss@> wrote:
> >
> > Hi all
> > Having problems with the readout again. Once again it locks on the lowest readout on each band (e.g.13500.0)and will not move. Also the led VFO light stays off.
> > If I switch Fix on the readout goes blank and the Fix light comes on switch back to VFO and again the read out comes back on but is still locked and no VFO light.
> > I did notice that prior to this the VFO light used to flicker for a while before it stayed on.
> > Also, the DH button has no effect - doesn't do anything.
> > Seems to indicate that the VFO isn't working but the rig still tunes across the bands. I thought maybe the counter unit wasn't getting feed from the VFO. I have checked and cleaned all the connections but still the same.
> > Any ideas, please?
> > Hope you all had a good Christmas.
> > Vic - G4JSS
> >
>

24180. MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-28 05:25:28 UTC
From: ki0gv
Topic: 23504 Message: 24180

To The Group,

This is kind of off target. But I have an MC-50 that I'm putting on my TS-520S, However the schematic I have for it is not totally correct. I'm having trouble figureing the wireing on the transformer themselves white, yellow, red, brown and black along with the black and blue wireing coming from the mic element itself. Can somebody just explain to me where these wires go, Because somebody has unsoldered the wires off of that little brass connection plate and the wires are just everywhere.

Thanks & 73'S
ki0gv
Mike

24181. Re: [TS-520_820_530_830] MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-28 05:40:46 UTC
From: Lou Blasco
Topic: 23504 Message: 24181

Hi Mike,

Take a look at Gordon's site. There's a MC-50 manual that tells you
exactly what you need to know.

http://www.n6wk.com/kenwood/

Lou
VK3ALB

At 04:25 PM 28/12/2009, you wrote:
>To The Group,
>
> This is kind of off target. But I have an MC-50 that I'm putting
> on my TS-520S, However the schematic I have for it is not totally
> correct. I'm having trouble figureing the wireing on the
> transformer themselves white, yellow, red, brown and black along
> with the black and blue wireing coming from the mic element itself.
> Can somebody just explain to me where these wires go, Because
> somebody has unsoldered the wires off of that little brass
> connection plate and the wires are just everywhere.
>
>
>Thanks & 73'S
>ki0gv
>Mike

24182. TS-820S restoration project

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-28 08:19:10 UTC
From: Andrea Liverani
Topic: 24182 Message: 24182

Here is the work in progress. You have to know that before
i had little experience in repairing HF radios so i am proud of the results i have
obtained:

patient: TS-820 LINE composed of TS-820S , VFO-820, SP-820.

Problem:

14V line shorted and damaged due to short circuit between external vfo to internal vfo...
(this is the cause why the previous owner sold the radio on ebay... a lot of smoke)...

Solution: new connection cable between vfo-820 and ts-820 , new diodes in the 14 volt
line circuit. New diode in the vfo-820 relay circuit and new Q9 and diode in the FIX board
of the ts-820 (the tx relay was not working).

Problem:

NO power in TUNE mode:

Solution:

1 resistor was opened in the tune circuit , replaced.

Problem:

DG1 not working, display was dark.

Solution:

Cleaned all of the connectors in DG1 circuit. Now i have a working display except for the
100hz
digit that is still not working.

Problem:

Arcing and tx low power in 14mhz.. the PA loaded in the 28mhz segment...

Solution, cleaned the PA Bandswitch very carefully and reloaded the little springs
of the 14 mhz band.

Problem... the previous owner was a smoker....

solution: completely cleaned in a mild soap solution all the knobs and frontplate,
repainted all
the chassis in original kenwood colour.

WORK IN PROGRESS:

When cold the radio tunes 3khz upper than when is warmed. After 3-4 minutes of warming
the frequency jumps 3 khz down and then stays absolutely stable. I think the problem is

in the PLL unit, i have cleaned all of the ground connections and connectors but the problem
is still present. The drift is not progressive, the jump is istantaneous after 3-4 minutes of power up.

I would like to read the 100HZ frequency....

Thanks for all the help received from the group and i hope to hear new suggestions for resolving
all of the problems...

ps... i have bought another TS-820S ... so i can swap some boards for a better troubleshooting ;)

_____
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24183. Neutralization

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-28 08:22:14 UTC
From: Andrea Liverani
Topic: 9730 Message: 24183

Can anyone explain in clear words how to make a perfect neutralization of the PA for a newbie?
(for Kenwood Hybrids of course).

I have just a wattmeter (20-200-2kw range), a 250W dummy load and a digital tester, no oscilloscope or other stuff.

_____
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http://www.windowslive.it/foto.aspx

[Non-text portions of this message have been removed]

24184. Re: MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-28 12:08:35 UTC
From: w5rkl
Topic: 23504 Message: 24184

The impedance transformer inside the microphone has a primary and secondary winding.

The primary winding has only "2" wires.

The secondary has "3" wires.

I don't have an MC-50 to check but here's what I think.

1. Brown and Black wires should show continuity between themselves but NO other wires.

2. Yellow, White, and Red wires are the secondary wires, White being the center tap. These 3 wires should show continuity between themselves but NOT with the Brown and Black primary wires.

If, using an ohm meter, shows the above to be true, connect the wires as follows:

1. Brown to Brown microphone element wire

2. Black to Black microphone element wire

3. Yellow to pin 5 on the rear of the microphone

4. White to pin 1 on the rear of the microphone

5. Red to pin 3 on the rear of the microphone

Again, I do not have an MC-50 to determine if I'm correct but if you use an ohm meter, connect the leads to the transformer wires as follows:

brown and Black wires should show continuity. These wires should NOT show continuity with any other transformer wires.

Yellow, White, and Red, should show continuity between themselves but NOT with any other transformer wires.

Compare you ohm meter continuity test with the microphone schematic wiring.

If ALL of the wires show continuity among themselves then the transformer is shorted internally and needs to be replaced.

73s
Mike W5RKL
Happy Holidays

--- In TS-520_820_530_830@yahoogroups.com, "ki0gv" <ki0gv@...> wrote:
>
> To The Group,
>
> This is kind of off target. But I have an MC-50 that I'm putting on my TS-520S, However

the schematic I have for it is not totally correct. I'm having trouble figureing the wireing on the transformer themselves white, yellow, red, brown and black along with the black and blue wireing coming from the mic element itself. Can somebody just explain to me where these wires go, Because somebody has unsoldered the wires off of that little brass connection plate and the wires are just everywhere.
>
>
> Thanks & 73'S
> ki0gv
> Mike
>

24187. Re: Neutralization

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-28 13:04:59 UTC
From: sv0xbq
Topic: 9730 Message: 24187

Hi Andrea,

All you need is your digital meter and dummy load. You'll need to make a
second dummy load using any resistors you've got to make up 50 ohms. It
doesn't matter about power rating as the SG switch will be off and there
will be almost no output at the ant socket. Make an RF detector using a
germanium diode. This goes across your new dummy load and the output goes to
your digital meter set to measure mA. You'll need your transceiver in the
service position, on it's side with the covers off but leave the cover on
the final cage. With your 250w dummy load fitted switch on and leave it for
10 minutes to warm up. Tune to 28.8 megs and tune up for full power as you
normally would. Remove your 250w dummy load and fit your new home brew dummy
load. Switch the SG switch to off. Now you send in CW mode and you should
see a deflection on your mA meter. On mine I get a max reading of 150 mA.
You need to adjust the neutralising capacitor to get the lowest reading on
your meter. With my meter set to 400 mA scale I can adjust through a range
of 150 mA down to 0 mA and just a gnats adjustment either side of the 0 mA
position causes a rise. Use a plastic tool to adjust the neutralising cap
-------- don't even think of using an insulated metal driver. Keep your
spare hand in your back pocket while your making adjustments. Treat it with lots of
respect. That's all there is to it. It can be good to have a dummy run with the power off
to
make sure the neutralising cap isn't too stiff to move with your plastic
tool and when your done don't forget to put the sg switch back to on.

Chris

--- In TS-520_820_530_830@yahoogroups.com, Andrea Liverani <andrealiverani@...> wrote:
>
>
> Can anyone explain in clear words how to make a perfect neutralization of the PA for a
newbie?
> (for Kenwood Hybrids of course).
>
> I have just a wattmeter (20-200-2kw range), a 250W dummy load and a digital tester, no
> oscilloscope or other stuff.
>
> _____
> I tuoi amici sempre a portata di clic, sul nuovo Web Messenger
> http://www.windowslive.it/foto.aspx
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>

24188. RE: [TS-520_820_530_830] Neutralization

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-28 14:31:35 UTC
From: Andrea Liverani
Topic: 9730 Message: 24188

OK , it is necessary to use anti-inductive resistors to make the second dummy load or i can use normal resistors ?
the germanium diode must be mounted in parallel to the resistor and i read voltage at the pins of the diode it's true?

of course i will respect the precautions .... i bought my first used HF radio when i was a CB (it was a FT-101E) at 15 years old and one of the first day of use i decided to clean the pa CAGE when the power was still on...
Anyway i have a plastic non inductive screwdriver to make the work.

> To: TS-520_820_530_830@yahoogroups.com
> From: alexandchrisp@gmail.com
> Date: Mon, 28 Dec 2009 14:40:07 +0200
> Subject: Re: [TS-520_820_530_830] Neutralization
>
> Hi Andrea,
>
> All you need is your digital meter and dummy load. You'll need to make a
> second dummy load using any resistors you've got to make up 50 ohms. It
> doesn't matter about power rating as the SG switch will be off and there
> will be almost no output at the ant socket. Make an RF detector using a
> germanium diode. This goes across your new dummy load and the output goes to
> your digital meter set to measure mA. You'll need your transceiver in the
> service position, on it's side with the covers off but leave the cover on
> the final cage. With your 250w dummy load fitted switch on and leave it for
> 10 minutes to warm up. Tune to 28.5 megs and tune up for full power as you
> normally would. Remove your 250w dummy load and fit your new home brew dummy
> load. Switch the SG switch to off. Now you send in CW mode and you should
> see a deflection on your mA meter. On mine I get a max reading of 150 mA.
> You need to adjust the neutralising capacitor to get the lowest reading on
> your meter. With my meter set to 400 mA scale I can adjust through a range
> of 150 mA down to 0 mA and just a gnats adjustment either side of the 0 mA
> position causes a rise. Use a plastic tool to adjust the neutralising cap
> -------- don't even think of using an insulated metal driver. Keep your
> spare hand in your back pocket while your making adjustments. That's all
> there is to it. It can be good to have a dummy run with the power off to
> make sure the neutralising cap isn't too stiff to move with your plastic
> tool and when your done don't forget to put the sg switch back to on.
>
> Chris
>
> 2009/12/28 Andrea Liverani <andrealiverani@...>
>
> >
> >

> >
> > Can anyone explain in clear words how to make a perfect neutralization of
> > the PA for a newbie?
> > (for Kenwood Hybrids of course).
> >
> > I have just a wattmeter (20-200-2kw range), a 250W dummy load and a digital
> > tester, no
> > oscilloscope or other stuff.
> >
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Scopri tuttele novità di Internet Explorer 8
http://www.microsoft.com/italy/windows/internet-explorer/msn.aspx

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24189. Re: [TS-520_820_530_830] Neutralization

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-28 15:05:33 UTC
From: Chris and Alex
Topic: 9730 Message: 24189

Andrea,
Take a look at the circuit here for a QRP power meter.
http://aa5tb.com/qrpmeter.html This is what you need to build but for your purposes you don't need R1 and your digital meter set to mA goes in the place of the meter in the diagram. You can use ordinary metal film resistors and half watt will be fine so long as you only use it with the SG switch in the off position. Any diode from your junk box is ok but it must be germanium.

Chris

2009/12/28 Andrea Liverani <andrealiverani@...>

>
>
>
> OK , it is necessary to use anti-inductive resistors to make the second
> dummy load or i can use normal resistors ?
> the germanium diode must be mounted in parallel to the resistor and i read
> voltage at the pins of the diode it's true?
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> of course i will respect the precautions .... i bought my first used HF
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> first day of use i decided to clean the pa CAGE when the power was still
> on...
> Anyway i have a plastic non inductive screwdriver to make the work.
>
> > To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> > From: alexandchrisp@... <alexandchrisp%40gmail.com>
> > Date: Mon, 28 Dec 2009 14:40:07 +0200
> > Subject: Re: [TS-520_820_530_830] Neutralization
> >
> > Hi Andrea,
> >
> > All you need is your digital meter and dummy load. You'll need to make a
> > second dummy load using any resistors you've got to make up 50 ohms. It
> > doesn't matter about power rating as the SG switch will be off and there
> > will be almost no output at the ant socket. Make an RF detector using a
> > germanium diode. This goes across your new dummy load and the output goes
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> > your digital meter set to measure mA. You'll need your transceiver in the
> > service position, on it's side with the covers off but leave the cover on
> > the final cage. With your 250w dummy load fitted switch on and leave it
> for
> > 10 minutes to warm up. Tune to 28.5 megs and tune up for full power as
> you

> > normally would. Remove your 250w dummy load and fit your new home brew
> dummy
> > load. Switch the SG switch to off. Now you send in CW mode and you should
> > see a deflection on your mA meter. On mine I get a max reading of 150 mA.
> > You need to adjust the neutralising capacitor to get the lowest reading
> on
> > your meter. With my meter set to 400 mA scale I can adjust through a
> range
> > of 150 mA down to 0 mA and just a gnats adjustment either side of the 0
> mA
> > position causes a rise. Use a plastic tool to adjust the neutralising cap
> > -------- don't even think of using an insulated metal driver. Keep your
> > spare hand in your back pocket while your making adjustments. That's all
> > there is to it. It can be good to have a dummy run with the power off to
> > make sure the neutralising cap isn't too stiff to move with your plastic
> > tool and when your done don't forget to put the sg switch back to on.
> >
> > Chris
> >
> > 2009/12/28 Andrea Liverani <andrealiverani@...<andrealiverani%40hotmail.com>
> >
> >
> > >
> > >
> > >
> > > Can anyone explain in clear words how to make a perfect neutralization
> of
> > > the PA for a newbie?
> > > (for Kenwood Hybrids of course).
> > >
> > > I have just a wattmeter (20-200-2kw range), a 250W dummy load and a
> digital
> > > tester, no
> > > oscilloscope or other stuff.
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24190. Re: VFO-820 Pilot Lamp

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-28 16:56:28 UTC
From: Ken
Topic: 24137 Message: 24190

I thought this is why they make 2.5mh rf chokes and .01 capacitors...
or wallwart power supplies.

Ken - KB7H

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> John,
>
> RFI on the tuner's dial lamp power source wiring is more of an issue than drilling a hole in the rear panels of the tuner and hybrid.
>
> I have to ask, how are you going to RFI proof the tuner's dial lamp wiring?
>
> Have you considered what could happen to your transmit signal if RF is picked up by the tuner's dial lamp wiring in the AT-230 tuner that is then fed to the LV DC supply in the radio?
>
> If you power the dial lamps in the tuner from the LV DC source in the radio, as it appears you are considering based on your recent response comments, RF picked up by the dial lamp wiring in the AT-230 tuner can and will result in RF being imposed onto the entire LV DC supply. This will result in RFI on your speech amplifier which will lead to RF distortion on your transmit signal. Personally, I wouldn't do it. It all sounds like a good idea on the surface but there's too much of a risk for dial lamp power source wiring that can cause RFI in the radio's LV DC supply.
>
> Just a thought you may not have considered.
>
> 73s
> Mike W5RKL
>
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Music Maker" <jhaddleton@> wrote:
> >
> >
> > Hi Dick .....
> >
> > Thank you for the speedy response, and your interest.
> >
> > The AT 230 is an Antenna Tuning Unit not a VFO (Wish I had one !!) .....
> > I understand your concerns about hole drilling, but the alternative
> > would be still to drill a hole in the back of the Transceiver and the

> > AT 230 to fit sockets for an interconnecting lead.
> >
> > I am sure also that fitting green or blue lighting in both units would
> > also de-value, but I operate in a dimly lit area, and the meters need
> > some stronger illumination! - That means heat, and why I thought of
> > LED's ... if LED's - why not coloured? was the next thought !!
> > This is possibly sacrilege to some members, as we are striving to keep
> > these tranceivers on the air as 'working museum pieces', and they should
> > be as 'original' as possible, !! LOL
> >
> > Others thoughts appreciated.
> >
> > de
> >
> > John G3OBU
> >
> >
> >
> > ....\
> > ....\
> > ...
> > --- In TS-520_820_530_830@yahoogroups.com, "Dick Merryman" <dicko@>
> > wrote:
> > >
> > > John-
> > >
> > > Don't drill a hole as it will affect the resale value of your unit.
> > Matter
> > > of fact, adding a lamp would change the value. However, if you are
> > > determined to illuminate your VFO then why not use a LED from the 9V
> > supply
> > > in theVvFO?
> > >
> > > Thinking about it, I have a VFO 520 and a VFO 230 and they are both
> > lighted.
> > > Are you sure that your's is not?
> > >
> > > The very best of the new year to you and yours,
> > >
> > > -Dick-
> > > N3XRU
> > >
> > > _____
> > >
> > > From: TS-520_820_530_830@yahoogroups.com
> > > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Music Maker
> > > Sent: Friday, December 25, 2009 7:39 PM
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Subject: [TS-520_820_530_830] Re: VFO-820 Pilot Lamp
> > >

> > >
> > >
> > >
> > > Hi Folks - I hope by now, the effects of the extra large Christmas
> > > Dinner has worn off !! (Its 2.30am 26 Dec, and I am still 'Bloated!).
> > >
> > > Off Topic a little - What about the Pilot Lights on the Meter and Dial
> > > on the TS 520SE?
> > >
> > > Mine are working fine, but I want to do a little modiification - based
> > > around the fact that there is no Dial Light in the AT-230 Tuner, and I
> > > would like to run power for a lighted meter through the back of the
> > unit
> > > (Small hole and rubber Grommet?). at the back - so I thought 'Hmmm!
> > The
> > > Dial and Tuning Lights in the Transceiver are a bit dim - so why don't
> > I
> > > change them for either Green or Blue LED's ? (and of course, the
> > AT-230
> > > Meter to match).
> > >
> > > Has anyone done this? Is there anything I need to know, beyond hooking
> > > up the 13.8V feed from the INSIDE of the 520SE (I am using the
> > external
> > > socket for the DG-5!) - to the LED's.
> > >
> > > View my Mod in Pictures, to the AT230 to install an internal Dummy
> > Load
> > > at ... http://www.John4Mus <http://www.John4Music.TV/27.html>
> > ic.TV/27.html
> > >
> > > Happy Holiday to all,
> > >
> > > John G3OBU
> > >
> > >
> > ....\
> > \
> > >
> > ....\
> > \
> > > ....
> > > --- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> > > 830@yahoogroups.com, "brad_kd5zat" bjpenn@
> > > wrote:
> > > >
> > > > Merry Christmas Everyone,
> > > >
> > > > I have a VFO-820 that I recently purchased on Ebay. The dial lamp is
> > > burned out. Does anyone know of a replacement for this lamp. It is a

> > > 12vac, 40ma lamp. The Kenwood part # is B30-0079-05.
> > > >
> > > > Any help would be greatly appreciated.
> > > >
> > > > Brad
> > > > KD5ZAT
> > > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
>

24191. Re: Digital Modes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-28 17:43:17 UTC
From: Ken
Topic: 24163 Message: 24191

I personally do not recommend HRD! I have tried it on several PC's (good ones) and a laptop. Every time I use it and think I have it figured out, it will do something different, present me with a reshuffled "look" or just plain "Lock UP" and I have to re-start the PC to clear the lock-up.

If you try to use the logbook, you are supposed to have PC Control of the radio, OK but the buttons don't control anything... I CAN CONTROL the radio by switching to the main HRD screen but that brings up the question, What are the buttons on the Logbook screen for?

DM780... everytime I try using it, it resizes and reshuffles the locations of the sub screens. I end up with the "World Map" screen or the Radio Screen on top of the log book entry lines etc...

In my opinion, HRD is VERY user UNFRIENDLY, has too many options (bugs) that need to be worked out. I realize it's still Beta though the full program was promised for late October but still... It should work better than it does.

I always end up going back to Digi-Pan.

Ken - KB7H

--- In TS-520_820_530_830@yahoogroups.com, "ah6rr1" <Toesonnose@...> wrote:
>
> Aloha John,
> Yes just use the Mic gain to get the output you need. As for programs Digipan is good but I have found DM780 that is bundled with Ham Radio Deluxe to be the best program I have used to date. I have tried them all including MixW ($50USD)and DM780 blows it away. Ham radio deluxe or HRD is as far as I am concerned the best Ham program out there it has a excellent loging program, a DX cluster that runs with the logging program and many other features that just make it very easy to use. It also has Rig control that will not work with the older kenwoods (I use it with my TS-850) but you would still have the logging and the DM780 to use and best of all it's FREE yes I Said FREE,
> You can go here to check it out
> http://www.ham-radio-deluxe.com/Downloads/tabid/54/Default.aspx
> So have fun on the digital modes and I hope to see you on my waterfall.
> 73 and Happy New Year
> Roland AH6RR
>
> --- In TS-520_820_530_830@yahoogroups.com, "Music Maker" <jhaddleton@> wrote:
> >
> >
> > Hi Folks,
> >
> > Just starting back in Amateur Radio after a VERY long absence. Digital to me - when I last Operated was a Creed 7b working RTTY !! Anyone remember these old 'Clatterers' ??
> >

> > Now - PSK, with a computer - Geez!!! great stuff - and at 74 years old, what a challenge to my one remaining brain cell, learning about it all - with no-one to lean on. A very steep learning curve !!
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> > At present, I have FOUR programs running in my computer - Winwarbler, MULTIPSK, Fldigi and Digipan. I am trying to evaluate the relative merits of these 'side by side' - At present, I prefer Digipan, I think.
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> > At this moment I am only listening, connected Rig to 'Line In', but have ordered a digital interface and a serial to USB converter, and will then have transmit capability.
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> > Like many of you, I feel that 'Macros' should be consigned to the bin - with all that useless and irrevelent and boring stuff that gets sent over and over to constitute a QSO. However - on reflection - there is another side to this. Here in UK, I am listening only to I, F, D, R, O stations, who probably can't speak English. But really - how impersonal to just conduct a QSO with just a string of Macros both ways - Whats the point? - Whats the Purpose?, a total waste of bandwidth, electricity and time - in my opinion. Macros, just one or two used sensibly are fine (such as CQ calling), so I guess, when I eventually get transmitting, and actually TYPING it will really throw them, when they can't respond with a Macro back that would be a response to my over, as I would start 'ragchewing' HI HI !!!!
> >
> > Finally (at the end of this epistle!), I am looking for an external VFO (the 520), if anyone has one, or can look out for me in the US. as I have never seen one come up for sale on Ebay here. I would be interested in a 'clean' one, even if 'Dead', that I could work on.
> >
> > Seasonal Greetings to all,
> > De
> > John G3OBU
> >
>

24192. R 820 TS 820s connecting cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-28 15:29:30 UTC
From: ork0269
Topic: 24192 Message: 24192

Hi guys I am looking for 2 of the connectors to conect the ts 820 to the r 820 ..Thanks Mike KA1CU

24193. Re: [TS-520_820_530_830] Digital Modes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-27 17:52:32 UTC
From: cecanterbury@cs.com
Topic: 24163 Message: 24193

John,
You still have a brain cell left? That's good news for me, I'm just turning 70, and starting a 520S renovation! Maybe I can finish it before I run out! Don't forget to check QRZ.com also.

P.S. I was born with nothing, and I still have most of it left!
Claude KE6EJG

-----Original Message-----
From: Music Maker <jhaddleton@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sat, Dec 26, 2009 9:15 pm
Subject: [TS-520_820_530_830] Digital Modes

Hi Folks,

Just starting back in Amateur Radio after a VERY long absence. Digital to me - when I last Operated was a Creed 7b working RTTY !! Anyone remember these old 'Clatterers' ??

Now - PSK, with a computer - Geez!!! great stuff - and at 74 years old, what a challenge to my one remaining brain cell, learning about it all - with no-one to lean on. A very steep learning curve !!

At present, I have FOUR programs running in my computer - Winwarbler, MULTIPSK, Fldigi and Digipan. I am trying to evaluate the relative merits of these 'side by side' - At present, I prefer Digipan, I think.

At this moment I am only listening, connected Rig to 'Line In', but have ordered a digital interface and a serial to USB converter, and will then have transmit capability.

Only thing puzzling me - is how to get my 520 SE's output down to 20 or 30 Watts - I believe that somewhere, I read that I can externally wire a 9V battery into a couple of spigots on an external socket on the transceiver to put a negative voltage to the Grid of the driver Valve. I really have so many questions, but its all the more fun to struggle my way through all the information on the net, than take the easy way, asking loads of questions on here !!

Like many of you, I feel that 'Macros' should be consigned to the bin - with all that useless and irrevelent and boring stuff that gets sent over and over to constitute a QSO. However - on reflection - there is another side to this. Here in UK, I am listening only to I, F, D, R, O stations, who probably can't speak English. But really - how impersonal to just conduct a QSO with just a string of Macros both ways - Whats the point? - Whats the Purpose?, a total waste of bandwidth, electricity and time - in my opinion. Macros, just one or two used sensibly are fine (such as CQ calling), so I guess, when I eventually get transmitting, and actually TYPING it will really throw them, when they can't respond with a Macro back that would be a response to my over, as I would start 'ragchewing' HI HI !!!!

Finally (at the end of this epistle!), I am looking for an external VFO (the 520), if anyone has one, or can look out for me in the US. as I have never seen one come up for sale on Ebay here. I would be interested in a 'clean' one, even if 'Dead', that I could work on.

Seasonal Greetings to all,
De
John G3OBU

[Non-text portions of this message have been removed]

24194. RE: [TS-520_820_530_830] Neutralization

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-28 13:20:58 UTC
From: Rick Klinge
Topic: 9730 Message: 24194

Wow, I have to say this is about the best neutralization procedures I've seen yet.

Thanks for pointing out the SSS "Sam Safety Says" rule of putting your spare hand in your back pocket.
Safety is always the best way to go.

73's

Rick Klinge
KC5UIW

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Chris and Alex
Sent: Monday, December 28, 2009 6:40 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Neutralization

Hi Andrea,

All you need is your digital meter and dummy load. You'll need to make a second dummy load using any resistors you've got to make up 50 ohms. It doesn't matter about power rating as the SG switch will be off and there will be almost no output at the ant socket. Make an RF detector using a germanium diode. This goes across your new dummy load and the output goes to your digital meter set to measure mA. You'll need your transceiver in the service position, on it's side with the covers off but leave the cover on the final cage. With your 250w dummy load fitted switch on and leave it for 10 minutes to warm up. Tune to 28.5 megs and tune up for full power as you normally would. Remove your 250w dummy load and fit your new home brew dummy load. Switch the SG switch to off. Now you send in CW mode and you should see a deflection on your mA meter. On mine I get a max reading of 150 mA. You need to adjust the neutralising capacitor to get the lowest reading on your meter. With my meter set to 400 mA scale I can adjust through a range of 150 mA down to 0 mA and just a gnats adjustment either side of the 0 mA position causes a rise. Use a plastic tool to adjust the neutralising cap -------- don't even think of using an insulated metal driver. Keep your spare hand in your back pocket while your making adjustments. That's all there is to it. It can be good to have a dummy run with the power off to make sure the neutralising cap isn't too stiff to move with your plastic tool and when your done don't forget to put the sg switch back to on.

Chris

2009/12/28 Andrea Liverani <andrealiverani@...>

>
>
>
> Can anyone explain in clear words how to make a perfect neutralization of
> the PA for a newbie?
> (for Kenwood Hybrids of course).
>
> I have just a wattmeter (20-200-2kw range), a 250W dummy load and a
digital
> tester, no
> oscilloscope or other stuff.
>
> _____
> I tuoi amici sempre a portata di clic, sul nuovo Web Messenger
> http://www.windowslive.it/foto.aspx
>
> [Non-text portions of this message have been removed]
>
>
>

[Non-text portions of this message have been removed]

24195. Re: [TS-520_820_530_830] Re: Digital Modes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-28 18:26:02 UTC
From: Dave ve3wej
Topic: 24163 Message: 24195

"It also has Rig control that will not work with the older kenwoods (I use it with my TS-850)"

are you refering to older than the 850 or the 850 inclusive. HRD does work with my 850. wa not sure if you were saying it does not with yours...

24196. Condenser mic pre-amp for ts-830

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-28 15:58:41 UTC
From: j_52_cooper
Topic: 24196 Message: 24196

Does anyone have a circuit diagram of a interface/preamp to be able to use a headset condensor mic with a ts-830?

Joel/nb9n

24197. Re: Digital Modes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-28 21:04:42 UTC
From: w5rkl
Topic: 24163 Message: 24197

Actually, John, you don't need the "9VDC through a pot to pin 6" on the rear remote octal socket.

Simply set the software's transmit audio level for an RF output of 25 watts and be done with it. I don't recommend using the 9VDC through a pot to pin 6 on the 8 pin octal remote socket! Leave the MIC gain set for normal voice operation and control the sound card transmit slider control. Set the slider control for zero ALC meter indication in USB or LSB when operating BPSK.

Any DC or ALC voltage applied to pin 6 on the 8 pin octal remote socket controls the gain of Q1 on the GENERATOR UNIT and Q1 on the IF UNIT, not the driver tube.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, cecanterbury@... wrote:
>
>
> John,
> You still have a brain cell left? That's good news for me, I'm just turning 70, and starting a 520S renovation! Maybe I can finish it before I run out! Don't forget to check QRZ.com also.
>
> P.S. I was born with nothing, and I still have most of it left!
> Claude KE6EJG
>
>
>
>
>
> -----Original Message-----
> From: Music Maker <jhaddleton@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sat, Dec 26, 2009 9:15 pm
> Subject: [TS-520_820_530_830] Digital Modes
>
>
>
>
>
>
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> Hi Folks,
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> Now - PSK, with a computer - Geez!!! great stuff - and at 74 years old, what a challenge to my one remaining brain cell, learning about it all - with no-one to lean on. A very steep learning curve !!
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> At present, I have FOUR programs running in my computer - Winwarbler, MULTIPSK, Fldigi and Digipan. I am trying to evaluate the relative merits of these 'side by side' - At present, I prefer Digipan, I think.
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>
> Seasonal Greetings to all,
> De
> John G3OBU
>
>
>
>
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

24198. Re: [TS-520_820_530_830] Re: Digital Modes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-28 21:18:08 UTC
From: Ruben Echevarria
Topic: 24163 Message: 24198

I use HRD/DM780 everyday with no lockups and no problems. The logbook is fantastic and it all works as it should.
I use a TS440S/AT and even the CAT works properly. I'm already about 1200 PSK contacts into it and it's fine.
I understand some have problems with it but usually it's driver problems which can be resolved by downloading
newer drivers. Also read the manual 73
 Ruben Echevarria KA2HHB
070 Club#861 30MDG#1148
10-10#33308

From: Ken <atm_ken_hunter@yahoo.com>
To: TS-520_820_530_830@yahoogroups.com
Sent: Mon, December 28, 2009 12:43:17 PM
Subject: [TS-520_820_530_830] Re: Digital Modes

I personally do not recommend HRD! I have tried it on several PC's (good ones) and a laptop. Every time I use it and think I have it figured out, it will do something different, present me with a reshuffled "look" or just plain "Lock UP" and I have to re-start the PC to clear the lock-up.

If you try to use the logbook, you are supposed to have PC Control of the radio, OK but the buttons don't control anything... I CAN CONTROL the radio by switching to the main HRD screen but that brings up the question, What are the buttons on the Logbook screen for?

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I always end up going back to Digi-Pan.

Ken - KB7H

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older kenwoods (I use it with my TS-850) but you would still have the logging and the DM780 to use and best of all it's FREE yes I Said FREE,
> You can go here to check it out
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> So have fun on the digital modes and I hope to see you on my waterfall.
> 73 and Happy New Year
> Roland AH6RR
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> >
> >
> > Hi Folks,
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> > Just starting back in Amateur Radio after a VERY long absence. Digital to me - when I last Operated was a Creed 7b working RTTY !! Anyone remember these old 'Clatterers' ??
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> > Now - PSK, with a computer - Geez!!! great stuff - and at 74 years old, what a challenge to my one remaining brain cell, learning about it all - with no-one to lean on. A very steep learning curve !!
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> > Seasonal Greetings to all,
> > De
> > John G3OBU

> >
>

[Non-text portions of this message have been removed]

24199. Re: Digital Modes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-28 21:43:41 UTC
From: Music Maker
Topic: 24163 Message: 24199

Hello All,

May I thank everyone who contributed to this thread.

You just won't believe how much I have learned. I can't go back into previous posts, but may I make some comments on some of the responses.

1. Digimode Programs..... I have MULTIPSK, Fldigi, MixW2, Digipan, Winwarbler installed and all seem to receive about the same sensitivity and selectivity as each other.... So its just a matter of 'Whistles and Bells', and which whistle or Bell you are going to use, and how 'User Friendly' the interfaces are. For simplicity, I would go for Digipan, but for useable facilities and the number of modes available, I would have to go for MULTIPSK. I will have to start uninstalling the others now. As for Ham Radio De-Luxe - I can't assess it, as I don't yet have an interface, and it needs one, so I can't comment (yet!).

2. Lowering power on the 520SE is now understood - just load it up as normal, then drop the the Ip (I assume this is Plate Current?) down to 100mA on SSB for around 30 Watts. Thanks to all who offered advice on this.

3. While on the topic of interfaces, I looked at ones like Tigertronics, etc - but due to being low on funds (as ever!), I have gone for this one on Ebay. He wires it to suit whatever rig you have - and at 25 Pounds (40 US Dollars), it seems OK. I have also ordered a Serial to USB converter for it. Please take a look, and comments, pse.

http://cgi.ebay.co.uk/ws/eBayISAPI.dll?ViewItem&item=180447898625&ssPageName=STRK:MEWAX:IT

4. Lastly (Did someone say 'Thank Goodness!') - several members were interested in my efforts in another Thread to construct an Antenna in my 15ft X 15ft back yard in the middle of my City. ..... Mission accomplished today !!. It seems to work a treat, but hard to judge just on one hour or so's use, particularly with the Bands in such poor shape. However, on 20 and 40 Metres, I heard several US stations, Israel, Moldova, Ukraine, Germany, Spain, Italy and France at 'workable levels, so it can't be too bad !!

I am now going to describe the construction - so if you are easily bored, knock this post off now !!! LOL

- -

Items used : Fibreglass collapsible Fishing Pole 11 Metres long.
25 Metres No16 (Thick) Enamelled Copper Wire
9:1 UnUn
Empty 2 Litre 'Coke' Bottle. 20 Metres Co-ax RG8U

Method Used : Pole extended to full length and all sections twisted really tight (I can't undo them now, even if I wanted to!) - Copper wire attached to the loop at the tip of the pole, and all of the 25 Metres of copper wire used up, by forming a spiral down the pole from tip to base, with about 30 turns. Secured at the Base by the 'plug in stopper', and with about 9 inches of wire 'free' this was soldered on to the core of a short (6") length

of Coax, just to connect the copper wire to the inner of a PL 253 - the outer connected to 'nothing'.

(Point to note - a 9:1 Unun will allow a random length of wire over 6 Metres Long to be capable of being Matched with an ATU to 50 Ohms SWR at 1:1 from any impedance on its other side.)

This plugged into the one side of the (sealed in a box) 9:1 Unun, and then my co-ax out to the other side of the Unun. This is now all at the very bottom of the 11 Metre Pole, which I then inserted into a plastic Coke bottle, with the top cut off, together with the Unun, and wires, so that I just had my coax feed coming out of the top, and the Pole. I then sealed the bottle to the pole, using self amalgam tape, then covered that with a plastic bag, which again I sealed.

Where the Feed Co-ax comes out of the bag, I have taped 10 feet of coax into 7 turns to form a RF choke so I don't get RF down the coax.

Stood it on the ground next to my wifes washing line post, secured the pole to that, and brought the Coax into the shack (the corner of our living room).

I hope this has painted a picture in words of my 'lash up' - but - as I said earlier - it seems to work, and it certainly comes down to 1:1 on all bands with my AT 230 ATU.

- -

I will do some pictures of it tomorrow, and put a description on my 'Amateur Radio' Pages on my Web Site, if anyone is interested.

http://www.John4Music.TV

I now await the arrival of my Interface and adapter, and I will be on YOUR waterfall - LOL.

Once again - thanks to everyone for their input to my one remaining braincell. You are all stars !!

John

PS - A friend (?) wrote this Ode for me !! ....

'My name is Bobby Braincell, I live inside Johns head.
Its hard to be a braincell, when all your friends are dead!'

--- In TS-520_820_530_830@yahoogroups.com, "Chuck Goelz" <c.goelz@...> wrote:
>
> John,
>
> I agree with Don Thomas' comments about the soundcard output level and mic gain. Adjust your mic gain down till the ALC indicates zero, then turn it down a just a little bit further!
>
> I'm interested in your evaluation of the digital software that you are trying. Please let us all know how they compare, and their strengths and weaknesses!! Hope to see your callsign on the waterfall some day...
>
> Cheers, 73,

>
> Chuck WA3CEJ
>
>
> ----- Original Message -----
> From: Music Maker
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, December 26, 2009 10:15 PM
> Subject: [TS-520_820_530_830] Digital Modes
>
>
>
>
> Hi Folks,
>
> Just starting back in Amateur Radio after a VERY long absence. Digital to me - when I last Operated was a Creed 7b working RTTY !! Anyone remember these old 'Clatterers' ??
>
> Now - PSK, with a computer - Geez!!! great stuff - and at 74 years old, what a challenge to my one remaining brain cell, learning about it all - with no-one to lean on. A very steep learning curve !!
>
> At present, I have FOUR programs running in my computer - Winwarbler, MULTIPSK, Fldigi and Digipan. I am trying to evaluate the relative merits of these 'side by side' - At present, I prefer Digipan, I think.
>
> At this moment I am only listening, connected Rig to 'Line In', but have ordered a digital interface and a serial to USB converter, and will then have transmit capability.
>
> Only thing puzzling me - is how to get my 520 SE's output down to 20 or 30 Watts - I believe that somewhere, I read that I can externally wire a 9V battery into a couple of spigots on an external socket on the transceiver to put a negative voltage to the Grid of the driver Valve. I really have so many questions, but its all the more fun to struggle my way through all the information on the net, than take the easy way, asking loads of questions on here !!
>
> Like many of you, I feel that 'Macros' should be consigned to the bin - with all that useless and irrevelent and boring stuff that gets sent over and over to constitute a QSO. However - on reflection - there is another side to this. Here in UK, I am listening only to I, F, D, R, O stations, who probably can't speak English. But really - how impersonal to just conduct a QSO with just a string of Macros both ways - Whats the point? - Whats the Purpose?, a total waste of bandwidth, electricity and time - in my opinion. Macros, just one or two used sensibly are fine (such as CQ calling), so I guess, when I eventually get transmitting, and actually TYPING it will really throw them, when they can't respond with a Macro back that would be a response to my over, as I would start 'ragchewing' HI HI !!!!
>
> Finally (at the end of this epistle!), I am looking for an external VFO (the 520), if anyone has one, or can look out for me in the US. as I have never seen one come up for sale on Ebay here. I would be interested in a 'clean' one, even if 'Dead', that I could work on.
>

> Seasonal Greetings to all,
> De
> John G3OBU
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

24200. Re: TS830S digital readout

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-28 22:23:10 UTC
From: wohtex
Topic: 24175 Message: 24200

I had a similar problem with a Yaesu rig, the display would take off displaying various frequencies but the VFO remained rock steady, if I tried tuning during this time the rig would change frequencies but the display would remain the same, I found it was a loose crystal on the display board once that was pushed in it operated normally, now I just need to find access to the underside of the board to resolder it.

hope this helps
Bill/N5CCQ

24201. Re: [TS-520_820_530_830] Re: MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-28 22:31:41 UTC
From: Michael
Topic: 23504 Message: 24201

Mike,

That really cleared it up for me, But the Mic element has a blue and black wire on it so I take it that the blue wire goes to the brown wire and the black wire goes to the black wire in the transformer and if so that is the way I will put it together. Also the wires showed continuity as you explained.

Thanks
ki0gv
Mike

--- On Mon, 12/28/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: MC-50
To: TS-520_820_530_830@yahoogroups.com
Date: Monday, December 28, 2009, 6:08 AM

The impedance transformer inside the microphone has a primary and secondary winding.

The primary winding has only "2" wires.

The secondary has "3" wires.

I don't have an MC-50 to check but here's what I think.

1. Brown and Black wires should show continuity between themselves but NO other wires.

2. Yellow, White, and Red wires are the secondary wires, White being the center tap. These 3 wires should show continuity between themselves but NOT with the Brown and Black primary wires.

If, using an ohm meter, shows the above to be true, connect the wires as follows:

1. Brown to Brown microphone element wire

2. Black to Black microphone element wire

3. Yellow to pin 5 on the rear of the microphone

4. White to pin 1 on the rear of the microphone

5. Red to pin 3 on the rear of the microphone

Again, I do not have an MC-50 to determine if I'm correct but if you use an ohm meter, connect the leads to the transformer wires as follows:

brown and Black wires should show continuity. These wires should NOT show continuity with any other transformer wires.

Yellow, White, and Red, should show continuity between themselves but NOT with any other transformer wires.

Compare you ohm meter continuity test with the microphone schematic wiring.

If ALL of the wires show continuity among themselves then the transformer is shorted internally and needs to be replaced.

73s
Mike W5RKL
Happy Holidays

--- In TS-520_820_530_ 830@yahoogroups. com, "ki0gv" <ki0gv@...> wrote:
>
> To The Group,
>
> This is kind of off target. But I have an MC-50 that I'm putting on my TS-520S, However the schematic I have for it is not totally correct. I'm having trouble figureing the wireing on the transformer themselves white, yellow, red, brown and black along with the black and blue wireing coming from the mic element itself. Can somebody just explain to me where these wires go, Because somebody has unsoldered the wires off of that little brass connection plate and the wires are just everywhere.
>
>
> Thanks & 73'S
> ki0gv
> Mike
>

[Non-text portions of this message have been removed]

24202. Re: MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-28 23:27:57 UTC
From: w5rkl
Topic: 23504 Message: 24202

Yes, Brown transformer wire to Blue microphone wire.

73s
Mike W5RKL
Happy Holidays

--- In TS-520_820_530_830@yahoogroups.com, Michael <ki0gv@...> wrote:
>
> Mike,
> Â
> Â That really cleared it up for me,Â But the Mic element has a blue and black wire on it so I take it that the blue wire goes to the brown wire and the black wire goes to the black wire in the transformer and if so that is the way I will put it together. Also the wires showed continuity as you explained.
> Â
> Thanks
> ki0gv
> Mike
>
> --- On Mon, 12/28/09, w5rkl <w5rkl@...> wrote:
>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: MC-50
> To: TS-520_820_530_830@yahoogroups.com
> Date: Monday, December 28, 2009, 6:08 AM
>
>
> Â
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>
>
> The impedance transformer inside the microphone has a primary and secondary winding.
>
> The primary winding has only "2" wires.
>
> The secondary has "3" wires.
>
> I don't have an MC-50 to check but here's what I think.
>
> 1. Brown and Black wires should show continuity between themselves but NO other wires.
>
> 2. Yellow, White, and Red wires are the secondary wires, White being the center tap. These 3 wires should show continuity between themselves but NOT with the Brown and Black primary wires.

>
> If, using an ohm meter, shows the above to be true, connect the wires as follows:
>
> 1. Brown to Brown microphone element wire
>
> 2. Black to Black microphone element wire
>
> 3. Yellow to pin 5 on the rear of the microphone
>
> 4. White to pin 1 on the rear of the microphone
>
> 5. Red to pin 3 on the rear of the microphone
>
> Again, I do not have an MC-50 to determine if I'm correct but if you use an ohm meter, connect the leads to the transformer wires as follows:
>
> brown and Black wires should show continuity. These wires should NOT show continuity with any other transformer wires.
>
> Yellow, White, and Red, should show continuity between themselves but NOT with any other transformer wires.
>
> Compare you ohm meter continuity test with the microphone schematic wiring.
>
> If ALL of the wires show continuity among themselves then the transformer is shorted internally and needs to be replaced.
>
> 73s
> Mike W5RKL
> Happy Holidays
>
> --- In TS-520_820_530_ 830@yahoogroups. com, "ki0gv" <ki0gv@> wrote:
> >
> > To The Group,
> >
> > This is kind of off target. But I have an MC-50 that I'm putting on my TS-520S, However the schematic I have for it is not totally correct. I'm having trouble figureing the wireing on the transformer themselves white, yellow, red, brown and black along with the black and blue wireing coming from the mic element itself. Can somebody just explain to me where these wires go, Because somebody has unsoldered the wires off of that little brass connection plate and the wires are just everywhere.
> >
> >
> > Thanks & 73'S
> > ki0gv
> > Mike
> >
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>
> [Non-text portions of this message have been removed]
>

24203. Re: [TS-520_820_530_830] Re: MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-29 02:39:59 UTC
From: Michael
Topic: 23504 Message: 24203

Mike,

 Thanks Alot for the information. I got it going and appears to be working fine.

73's
ki0gv
Mike

--- On Mon, 12/28/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: MC-50
To: TS-520_820_530_830@yahoogroups.com
Date: Monday, December 28, 2009, 5:27 PM

Yes, Brown transformer wire to Blue microphone wire.

73s
Mike W5RKL
Happy Holidays

--- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@...> wrote:
>
> Mike,
> Â
> Â That really cleared it up for me,Â But the Mic element has a blue and black wire on it so I take it that the blue wire goes to the brown wire and the black wire goes to the black wire in the transformer and if so that is the way I will put it together. Also the wires showed continuity as you explained.
> Â
> Thanks
> ki0gv
> Mike
>
> --- On Mon, 12/28/09, w5rkl <w5rkl@...> wrote:
>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_ 530_830] Re: MC-50
> To: TS-520_820_530_ 830@yahoogroups. com
> Date: Monday, December 28, 2009, 6:08 AM
>
>
> Â
>
>
>

> The impedance transformer inside the microphone has a primary and secondary winding.
>
> The primary winding has only "2" wires.
>
> The secondary has "3" wires.
>
> I don't have an MC-50 to check but here's what I think.
>
> 1. Brown and Black wires should show continuity between themselves but NO other wires.
>
> 2. Yellow, White, and Red wires are the secondary wires, White being the center tap. These 3 wires should show continuity between themselves but NOT with the Brown and Black primary wires.
>
> If, using an ohm meter, shows the above to be true, connect the wires as follows:
>
> 1. Brown to Brown microphone element wire
>
> 2. Black to Black microphone element wire
>
> 3. Yellow to pin 5 on the rear of the microphone
>
> 4. White to pin 1 on the rear of the microphone
>
> 5. Red to pin 3 on the rear of the microphone
>
> Again, I do not have an MC-50 to determine if I'm correct but if you use an ohm meter, connect the leads to the transformer wires as follows:
>
> brown and Black wires should show continuity. These wires should NOT show continuity with any other transformer wires.
>
> Yellow, White, and Red, should show continuity between themselves but NOT with any other transformer wires.
>
> Compare you ohm meter continuity test with the microphone schematic wiring.
>
> If ALL of the wires show continuity among themselves then the transformer is shorted internally and needs to be replaced.
>
> 73s
> Mike W5RKL
> Happy Holidays
>
> --- In TS-520_820_530_ 830@yahoogroups. com, "ki0gv" <ki0gv@> wrote:
> >
> > To The Group,
> >
> > This is kind of off target. But I have an MC-50 that I'm putting on my TS-520S, However the schematic I have for it is not totally correct. I'm having trouble figureing the

wireing on the transformer themselves white, yellow, red, brown and black along with the black and blue wireing coming from the mic element itself. Can somebody just explain to me where these wires go, Because somebody has unsoldered the wires off of that little brass connection plate and the wires are just everywhere.
> >
> >
> > Thanks & 73'S
> > ki0gv
> > Mike
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> [Non-text portions of this message have been removed]
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24204. Re: MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-29 12:31:56 UTC
From: w5rkl
Topic: 23504 Message: 24204

That's great Mike, glad I could be of help.

73s
Mike W5RKL
Happy Holidays

--- In TS-520_820_530_830@yahoogroups.com, Michael <ki0gv@...> wrote:
>
> Mike,
> Â
> Â Thanks Alot for the information.Â I got it going and appears to be working fine.
> Â
> 73's
> ki0gv
> Mike
>
> --- On Mon, 12/28/09, w5rkl <w5rkl@...> wrote:
>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: MC-50
> To: TS-520_820_530_830@yahoogroups.com
> Date: Monday, December 28, 2009, 5:27 PM
>
>
> Â
>
>
>
> Yes, Brown transformer wire to Blue microphone wire.
>
> 73s
> Mike W5RKL
> Happy Holidays
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@> wrote:
> >
> > Mike,
> > ÃÂ
> > ÃÂ That really cleared it up for me,ÃÂ But the Mic element has a blue and black wire on it so I take it that the blue wire goes to the brown wire and the black wire goes to the black wire in the transformer and if so that is the way I will put it together. Also the wires showed continuity as you explained.
> > ÃÂ
> > Thanks
> > ki0gv

> > Mike
> >
> > --- On Mon, 12/28/09, w5rkl <w5rkl@> wrote:
> >
> >
> > From: w5rkl <w5rkl@>
> > Subject: [TS-520_820_ 530_830] Re: MC-50
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Date: Monday, December 28, 2009, 6:08 AM
> >
> >
> > Ã□Â
> >
> >
> >
> > The impedance transformer inside the microphone has a primary and secondary winding.
> >
> > The primary winding has only "2" wires.
> >
> > The secondary has "3" wires.
> >
> > I don't have an MC-50 to check but here's what I think.
> >
> > 1. Brown and Black wires should show continuity between themselves but NO other wires.
> >
> > 2. Yellow, White, and Red wires are the secondary wires, White being the center tap. These 3 wires should show continuity between themselves but NOT with the Brown and Black primary wires.
> >
> > If, using an ohm meter, shows the above to be true, connect the wires as follows:
> >
> > 1. Brown to Brown microphone element wire
> >
> > 2. Black to Black microphone element wire
> >
> > 3. Yellow to pin 5 on the rear of the microphone
> >
> > 4. White to pin 1 on the rear of the microphone
> >
> > 5. Red to pin 3 on the rear of the microphone
> >
> > Again, I do not have an MC-50 to determine if I'm correct but if you use an ohm meter, connect the leads to the transformer wires as follows:
> >
> > brown and Black wires should show continuity. These wires should NOT show continuity with any other transformer wires.
> >
> > Yellow, White, and Red, should show continuity between themselves but NOT with any other transformer wires.
> >
> > Compare you ohm meter continuity test with the microphone schematic wiring.

> >
> > If ALL of the wires show continuity among themselves then the transformer is shorted internally and needs to be replaced.
> >
> > 73s
> > Mike W5RKL
> > Happy Holidays
> >
> > --- In TS-520_820_530_ 830@yahoogroups. com, "ki0gv" <ki0gv@> wrote:
> > >
> > > To The Group,
> > >
> > > This is kind of off target. But I have an MC-50 that I'm putting on my TS-520S, However the schematic I have for it is not totally correct. I'm having trouble figureing the wireing on the transformer themselves white, yellow, red, brown and black along with the black and blue wireing coming from the mic element itself. Can somebody just explain to me where these wires go, Because somebody has unsoldered the wires off of that little brass connection plate and the wires are just everywhere.
> > >
> > >
> > > Thanks & 73'S
> > > ki0gv
> > > Mike
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> [Non-text portions of this message have been removed]
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24205. Re: MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-29 13:16:03 UTC
From: w5rkl
Topic: 23504 Message: 24205

I wonder what those funny looking "A" characters with the mark above the character are from. My first thought is the message was composed and sent from a Blackberry.

73s
Mike W5RKL
Happy Holidays

--- In TS-520_820_530_830@yahoogroups.com, Michael <ki0gv@...> wrote:
>
> Mike,
> Â
> Â Thanks Alot for the information.Â I got it going and appears to be working fine.
> Â
> 73's
> ki0gv
> Mike
>
> --- On Mon, 12/28/09, w5rkl <w5rkl@...> wrote:
>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: MC-50
> To: TS-520_820_530_830@yahoogroups.com
> Date: Monday, December 28, 2009, 5:27 PM
>
>
> Â
>
>
>
> Yes, Brown transformer wire to Blue microphone wire.
>
> 73s
> Mike W5RKL
> Happy Holidays
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@> wrote:
> >
> > Mike,
> > ÃâÂ
> > ÃâÂ That really cleared it up for me,ÃâÂ But the Mic element has a blue and black wire on it so I take it that the blue wire goes to the brown wire and the black wire goes to the black wire in the transformer and if so that is the way I will put it together. Also the wires showed continuity as you explained.
> > ÃâÂ
> > Thanks

> > ki0gv
> > Mike
> >
> > --- On Mon, 12/28/09, w5rkl <w5rkl@> wrote:
> >
> >
> > From: w5rkl <w5rkl@>
> > Subject: [TS-520_820_ 530_830] Re: MC-50
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Date: Monday, December 28, 2009, 6:08 AM
> >
> >
> > Ã□Â
> >
> >
> >
> > The impedance transformer inside the microphone has a primary and secondary winding.
> >
> > The primary winding has only "2" wires.
> >
> > The secondary has "3" wires.
> >
> > I don't have an MC-50 to check but here's what I think.
> >
> > 1. Brown and Black wires should show continuity between themselves but NO other wires.
> >
> > 2. Yellow, White, and Red wires are the secondary wires, White being the center tap. These 3 wires should show continuity between themselves but NOT with the Brown and Black primary wires.
> >
> > If, using an ohm meter, shows the above to be true, connect the wires as follows:
> >
> > 1. Brown to Brown microphone element wire
> >
> > 2. Black to Black microphone element wire
> >
> > 3. Yellow to pin 5 on the rear of the microphone
> >
> > 4. White to pin 1 on the rear of the microphone
> >
> > 5. Red to pin 3 on the rear of the microphone
> >
> > Again, I do not have an MC-50 to determine if I'm correct but if you use an ohm meter, connect the leads to the transformer wires as follows:
> >
> > brown and Black wires should show continuity. These wires should NOT show continuity with any other transformer wires.
> >
> > Yellow, White, and Red, should show continuity between themselves but NOT with any other transformer wires.
> >

> > Compare you ohm meter continuity test with the microphone schematic wiring.
> >
> > If ALL of the wires show continuity among themselves then the transformer is shorted internally and needs to be replaced.
> >
> > 73s
> > Mike W5RKL
> > Happy Holidays
> >
> > --- In TS-520_820_530_ 830@yahoogroups. com, "ki0gv" <ki0gv@> wrote:
> > >
> > > To The Group,
> > >
> > > This is kind of off target. But I have an MC-50 that I'm putting on my TS-520S, However the schematic I have for it is not totally correct. I'm having trouble figureing the wireing on the transformer themselves white, yellow, red, brown and black along with the black and blue wireing coming from the mic element itself. Can somebody just explain to me where these wires go, Because somebody has unsoldered the wires off of that little brass connection plate and the wires are just everywhere.
> > >
> > >
> > > Thanks & 73'S
> > > ki0gv
> > > Mike
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> > [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]

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24206. Re: Neutralization

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-29 14:55:12 UTC
From: Music Maker
Topic: 9730 Message: 24206

1. What a pity these very informative posts that appear on the Group, defining repairs, operations, etc.. get lost eventually in the mists of time.

Should we not copy these and put them in a section of the 'Files' on here, for future reference when needed, and to save our 'Techie Whizzkids' from rewriting the same thing every so often??

The other thought that comes to mind, is that these Bulletin type boards, as a communication method are terrible for navigation, following threads, posting, reading etc. These days Forums are avaiable free, and a much more friendly way to go, and very simple to accees and use.

Why does this community not switch to a 'proper' Forum. I own and manage several (one with over 8,000 members) - they are free, and it would be very easy to switch from this type of Bulletin Board to a Forum.

Comments on this thought? - (I have only been a member for a few weeks, and here I am trying to upset everyone !! .... LOL).

Kindest regards to all

John

.....

--- In TS-520_820_530_830@yahoogroups.com, "Rick Klinge" <rick@...> wrote:
>
> Wow, I have to say this is about the best neutralization procedures I've
> seen yet.
>
> Thanks for pointing out the SSS "Sam Safety Says" rule of putting your spare
> hand in your back pocket.
> Safety is always the best way to go.
>
> 73's
>
> Rick Klinge
> KC5UIW
>
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Chris and Alex
> Sent: Monday, December 28, 2009 6:40 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] Neutralization
>

> Hi Andrea,
>
> All you need is your digital meter and dummy load. You'll need to make a
> second dummy load using any resistors you've got to make up 50 ohms. It
> doesn't matter about power rating as the SG switch will be off and there
> will be almost no output at the ant socket. Make an RF detector using a
> germanium diode. This goes across your new dummy load and the output goes to
> your digital meter set to measure mA. You'll need your transceiver in the
> service position, on it's side with the covers off but leave the cover on
> the final cage. With your 250w dummy load fitted switch on and leave it for
> 10 minutes to warm up. Tune to 28.5 megs and tune up for full power as you
> normally would. Remove your 250w dummy load and fit your new home brew dummy
> load. Switch the SG switch to off. Now you send in CW mode and you should
> see a deflection on your mA meter. On mine I get a max reading of 150 mA.
> You need to adjust the neutralising capacitor to get the lowest reading on
> your meter. With my meter set to 400 mA scale I can adjust through a range
> of 150 mA down to 0 mA and just a gnats adjustment either side of the 0 mA
> position causes a rise. Use a plastic tool to adjust the neutralising cap
> -------- don't even think of using an insulated metal driver. Keep your
> spare hand in your back pocket while your making adjustments. That's all
> there is to it. It can be good to have a dummy run with the power off to
> make sure the neutralising cap isn't too stiff to move with your plastic
> tool and when your done don't forget to put the sg switch back to on.
>
> Chris
>
> 2009/12/28 Andrea Liverani <andrealiverani@...>
>
> >
> > >
> > > Can anyone explain in clear words how to make a perfect neutralization of
> > > the PA for a newbie?
> > > (for Kenwood Hybrids of course).
> > >
> > > I have just a wattmeter (20-200-2kw range), a 250W dummy load and a
> > digital
> > > tester, no
> > > oscilloscope or other stuff.
> > >
> > > _____
> > > I tuoi amici sempre a portata di clic, sul nuovo Web Messenger
> > > http://www.windowslive.it/foto.aspx
> > >
> > > [Non-text portions of this message have been removed]
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> >

> [Non-text portions of this message have been removed]
>

24207. Re: [TS-520_820_530_830] Re: Neutralization

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-29 15:11:13 UTC
From: Dave ve3wej
Topic: 9730 Message: 24207

If everything was posted and organized, we would not need the forums at all. not everyone knows how to browse, let alone search the WWW, so having a few knowlegable specialists keeps them busy, helping others, and keeping the ham community lazy, as it has and should be

----- Original Message -----
From: "Music Maker" <jhaddleton@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, December 29, 2009 9:55 AM
Subject: [TS-520_820_530_830] Re: Neutralization

> 1. What a pity these very informative posts that appear on the Group,
> defining repairs, operations, etc.. get lost eventually in the mists of
> time.
>
> Should we not copy these and put them in a section of the 'Files' on here,
> for future reference when needed, and to save our 'Techie Whizzkids' from
> rewriting the same thing every so often??
>
> The other thought that comes to mind, is that these Bulletin type boards,
> as a communication method are terrible for navigation, following threads,
> posting, reading etc. These days Forums are avaiable free, and a much
> more friendly way to go, and very simple to accees and use.
>
> Why does this community not switch to a 'proper' Forum. I own and manage
> several (one with over 8,000 members) - they are free, and it would be
> very easy to switch from this type of Bulletin Board to a Forum.
>
> Comments on this thought? - (I have only been a member for a few weeks,
> and here I am trying to upset everyone !! .... LOL).
>
> Kindest regards to all
>
> John
>
> ....
>
> --- In TS-520_820_530_830@yahoogroups.com, "Rick Klinge" <rick@...> wrote:
>>
>> Wow, I have to say this is about the best neutralization procedures I've
>> seen yet.
>>
>> Thanks for pointing out the SSS "Sam Safety Says" rule of putting your
>> spare
>> hand in your back pocket.

>> Safety is always the best way to go.
>>
>> 73's
>>
>> Rick Klinge
>> KC5UIW
>>
>>
>> -----Original Message-----
>> From: TS-520_820_530_830@yahoogroups.com
>> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Chris and Alex
>> Sent: Monday, December 28, 2009 6:40 AM
>> To: TS-520_820_530_830@yahoogroups.com
>> Subject: Re: [TS-520_820_530_830] Neutralization
>>
>> Hi Andrea,
>>
>> All you need is your digital meter and dummy load. You'll need to make a
>> second dummy load using any resistors you've got to make up 50 ohms. It
>> doesn't matter about power rating as the SG switch will be off and there
>> will be almost no output at the ant socket. Make an RF detector using a
>> germanium diode. This goes across your new dummy load and the output goes
>> to
>> your digital meter set to measure mA. You'll need your transceiver in
>> the
>> service position, on it's side with the covers off but leave the cover on
>> the final cage. With your 250w dummy load fitted switch on and leave it
>> for
>> 10 minutes to warm up. Tune to 28.5 megs and tune up for full power as
>> you
>> normally would. Remove your 250w dummy load and fit your new home brew
>> dummy
>> load. Switch the SG switch to off. Now you send in CW mode and you should
>> see a deflection on your mA meter. On mine I get a max reading of 150 mA.
>> You need to adjust the neutralising capacitor to get the lowest reading
>> on
>> your meter. With my meter set to 400 mA scale I can adjust through a
>> range
>> of 150 mA down to 0 mA and just a gnats adjustment either side of the 0
>> mA
>> position causes a rise. Use a plastic tool to adjust the neutralising cap
>> -------- don't even think of using an insulated metal driver. Keep your
>> spare hand in your back pocket while your making adjustments. That's all
>> there is to it. It can be good to have a dummy run with the power off to
>> make sure the neutralising cap isn't too stiff to move with your plastic
>> tool and when your done don't forget to put the sg switch back to on.
>>
>> Chris
>>
>> 2009/12/28 Andrea Liverani <andrealiverani@...>

>>
>> >
>> >
>> >
>> > Can anyone explain in clear words how to make a perfect neutralization
>> > of
>> > the PA for a newbie?
>> > (for Kenwood Hybrids of course).
>> >
>> > I have just a wattmeter (20-200-2kw range), a 250W dummy load and a
>> digital
>> > tester, no
>> > oscilloscope or other stuff.
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>> > I tuoi amici sempre a portata di clic, sul nuovo Web Messenger
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> Yahoo! Groups Links
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24208. Re: Digital Modes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-29 15:59:23 UTC
From: ah6rr1
Topic: 24163 Message: 24208

What I was saying is HRD will not interface with the older Kenwods like the 520/530/820/830 or even the 430's but it will interface with the 440 and newer it does just fine with my 850. You can still use it with the older Kenwoods but without rig control so manual Freuqency entry into log/digital mode ect. And as for Ken KB7H I dont know what to tell you I have been using HRD since 2004 and have never had a problem with it moving stuff around on the screen. There was a issue when QRZ changed some website software but Simon and the crew had it fixed in a few days. Version 5 is still in beta but version 4 is not. I use V5 as it is very easy to use and it has the most Bells & Whistles. Heck there is some parts of the program I have not even used yet. I mean it does everything.
73
Roland AH6RR

--- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@...> wrote:
>
> "It also has Rig control that will not work with the older kenwoods (I use
> it with my TS-850)"
>
> are you refering to older than the 850 or the 850 inclusive. HRD does work
> with my 850. wa not sure if you were saying it does not with yours...
>

24209. MC-40 VS MC-50 MICS

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-29 05:24:32 UTC
From: w0cbf@yahoo.com
Topic: 24209 Message: 24209

I have a chance to pick up a MC-40 mic. I have always used MC-50 mics with my 820. What is the main difference between these 2 mics?

24210. Re: MC-40 VS MC-50 MICS

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-29 19:48:52 UTC
From: w5rkl
Topic: 24209 Message: 24210

I could be wrong but I have never heard of an MC-40 microphone. Are you sure you have the microphone model correct?

73s
Mike W5RKL
Happy Holidays
--- In TS-520_820_530_830@yahoogroups.com, w0cbf@... wrote:
>
> I have a chance to pick up a MC-40 mic. I have always used MC-50 mics with my 820. What is the main difference between these 2 mics?
>

24211. Changing forum format

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-29 23:28:54 UTC
From: Lou Blasco
Topic: 9730 Message: 24211

In my experience, changing forum format is something that is discussed from time to time on a number of Yahoo groups. From my perspective I think the Yahoo format is great. I think there's no doubt that the most used feature of the group is the message board. I think the message board is quite practical and allows users to search for anything they might be interested in. It's also quite interesting to read back through the messages from time to time and see the same topics come up. It show that the group is alive and new members are finding us and enjoying these great radios.

In my opinion the benefits of this group are

IT'S FREE

You can get a daily email digest of all the posts.

If you have a permanent internet connection you can receive messages by email as soon as they are posted.

You can interact directly with the group via email only

There's a place to upload pictures

There's a place to upload files and documents

Overwhelmingly for me, being able to read everything that happened overnight when I check my email every morning is the best thing about this group.

Lou
VK3ALB

At 01:55 AM 30/12/2009, you wrote:
>1. What a pity these very informative posts that appear on the
>Group, defining repairs, operations, etc.. get lost eventually in
>the mists of time.
>
>Should we not copy these and put them in a section of the 'Files' on
>here, for future reference when needed, and to save our 'Techie
>Whizzkids' from rewriting the same thing every so often??
>
>The other thought that comes to mind, is that these Bulletin type
>boards, as a communication method are terrible for navigation,
>following threads, posting, reading etc. These days Forums are
>avaiable free, and a much more friendly way to go, and very simple
>to accees and use.
>

>Why does this community not switch to a 'proper' Forum. I own and
>manage several (one with over 8,000 members) - they are free, and it
>would be very easy to switch from this type of Bulletin Board to a Forum.
>
>Comments on this thought? - (I have only been a member for a few
>weeks, and here I am trying to upset everyone !! .... LOL).
>
>Kindest regards to all
>
>John
>
>.....
>
>--- In TS-520_820_530_830@yahoogroups.com, "Rick Klinge" <rick@...> wrote:
> >
> > Wow, I have to say this is about the best neutralization procedures I've
> > seen yet.
> >
> > Thanks for pointing out the SSS "Sam Safety Says" rule of putting
> your spare
> > hand in your back pocket.
> > Safety is always the best way to go.
> >
> > 73's
> >
> > Rick Klinge
> > KC5UIW
> >
> >
> > -----Original Message-----
> > From: TS-520_820_530_830@yahoogroups.com
> > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Chris and Alex
> > Sent: Monday, December 28, 2009 6:40 AM
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: Re: [TS-520_820_530_830] Neutralization
> >
> > Hi Andrea,
> >
> > All you need is your digital meter and dummy load. You'll need to make a
> > second dummy load using any resistors you've got to make up 50 ohms. It
> > doesn't matter about power rating as the SG switch will be off and there
> > will be almost no output at the ant socket. Make an RF detector using a
> > germanium diode. This goes across your new dummy load and the
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> > service position, on it's side with the covers off but leave the cover on
> > the final cage. With your 250w dummy load fitted switch on and leave it for
> > 10 minutes to warm up. Tune to 28.5 megs and tune up for full power as you
> > normally would. Remove your 250w dummy load and fit your new home
> brew dummy

> > load. Switch the SG switch to off. Now you send in CW mode and you should
> > see a deflection on your mA meter. On mine I get a max reading of 150 mA.
> > You need to adjust the neutralising capacitor to get the lowest reading on
> > your meter. With my meter set to 400 mA scale I can adjust through a range
> > of 150 mA down to 0 mA and just a gnats adjustment either side of the 0 mA
> > position causes a rise. Use a plastic tool to adjust the neutralising cap
> > -------- don't even think of using an insulated metal driver. Keep your
> > spare hand in your back pocket while your making adjustments. That's all
> > there is to it. It can be good to have a dummy run with the power off to
> > make sure the neutralising cap isn't too stiff to move with your plastic
> > tool and when your done don't forget to put the sg switch back to on.
> >
> > Chris
> >
> > 2009/12/28 Andrea Liverani <andrealiverani@...>
> >
> > >
> > >
> > >
> > > Can anyone explain in clear words how to make a perfect neutralization of
> > > the PA for a newbie?
> > > (for Kenwood Hybrids of course).
> > >
> > > I have just a wattmeter (20-200-2kw range), a 250W dummy load and a
> > digital
> > > tester, no
> > > oscilloscope or other stuff.
> > >
> > > ____
> > > I tuoi amici sempre a portata di clic, sul nuovo Web Messenger
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>Yahoo! Groups Links
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24212. Re: [TS-520_820_530_830] Re: MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-30 01:49:29 UTC
From: Michael
Topic: 23504 Message: 24212

Mike,

 Boy, I have no idea. I sent the messages on my home computer. See if they are there this time

--- On Tue, 12/29/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: MC-50
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, December 29, 2009, 7:16 AM

I wonder what those funny looking "A" characters with the mark above the character are from. My first thought is the message was composed and sent from a Blackberry.

73s
Mike W5RKL
Happy Holidays

--- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@...> wrote:
>
> Mike,
> Â
> Â Thanks Alot for the information.Â I got it going and appears to be working fine.
> Â
> 73's
> ki0gv
> Mike
>
> --- On Mon, 12/28/09, w5rkl <w5rkl@...> wrote:
>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_ 530_830] Re: MC-50
> To: TS-520_820_530_ 830@yahoogroups. com
> Date: Monday, December 28, 2009, 5:27 PM
>
>
> Â
>
>
>
> Yes, Brown transformer wire to Blue microphone wire.
>
> 73s
> Mike W5RKL

> Happy Holidays
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@> wrote:
> >
> > Mike,
> > Ã‚Â
> > Ã‚Â That really cleared it up for me,Ã‚Â But the Mic element has a blue and black wire on it so I take it that the blue wire goes to the brown wire and the black wire goes to the black wire in the transformer and if so that is the way I will put it together. Also the wires showed continuity as you explained.
> > Ã‚Â
> > Thanks
> > ki0gv
> > Mike
> >
> > --- On Mon, 12/28/09, w5rkl <w5rkl@> wrote:
> >
> >
> > From: w5rkl <w5rkl@>
> > Subject: [TS-520_820_ 530_830] Re: MC-50
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Date: Monday, December 28, 2009, 6:08 AM
> >
> >
> > Ã‚Â
> >
> >
> >
> > The impedance transformer inside the microphone has a primary and secondary winding.
> >
> > The primary winding has only "2" wires.
> >
> > The secondary has "3" wires.
> >
> > I don't have an MC-50 to check but here's what I think.
> >
> > 1. Brown and Black wires should show continuity between themselves but NO other wires.
> >
> > 2. Yellow, White, and Red wires are the secondary wires, White being the center tap. These 3 wires should show continuity between themselves but NOT with the Brown and Black primary wires.
> >
> > If, using an ohm meter, shows the above to be true, connect the wires as follows:
> >
> > 1. Brown to Brown microphone element wire
> >
> > 2. Black to Black microphone element wire
> >
> > 3. Yellow to pin 5 on the rear of the microphone
> >

> > 4. White to pin 1 on the rear of the microphone
> >
> > 5. Red to pin 3 on the rear of the microphone
> >
> > Again, I do not have an MC-50 to determine if I'm correct but if you use an ohm meter, connect the leads to the transformer wires as follows:
> >
> > brown and Black wires should show continuity. These wires should NOT show continuity with any other transformer wires.
> >
> > Yellow, White, and Red, should show continuity between themselves but NOT with any other transformer wires.
> >
> > Compare you ohm meter continuity test with the microphone schematic wiring.
> >
> > If ALL of the wires show continuity among themselves then the transformer is shorted internally and needs to be replaced.
> >
> > 73s
> > Mike W5RKL
> > Happy Holidays
> >
> > --- In TS-520_820_530_ 830@yahoogroups. com, "ki0gv" <ki0gv@> wrote:
> > >
> > > To The Group,
> > >
> > > This is kind of off target. But I have an MC-50 that I'm putting on my TS-520S, However the schematic I have for it is not totally correct. I'm having trouble figureing the wireing on the transformer themselves white, yellow, red, brown and black along with the black and blue wireing coming from the mic element itself. Can somebody just explain to me where these wires go, Because somebody has unsoldered the wires off of that little brass connection plate and the wires are just everywhere.
> > >
> > >
> > > Thanks & 73'S
> > > ki0gv
> > > Mike
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24213. Re: [TS-520_820_530_830] Re: Neutralization

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-30 01:58:12 UTC
From: Michael
Topic: 9730 Message: 24213

John,

 In am own opinion. Forums are fine, However when I read something in the group that I want to reference to later, I just hit the Print Icon on the computer.

Mike

--- On Tue, 12/29/09, Music Maker <jhaddleton@...> wrote:

From: Music Maker <jhaddleton@msn.com>
Subject: [TS-520_820_530_830] Re: Neutralization
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, December 29, 2009, 8:55 AM

1. What a pity these very informative posts that appear on the Group, defining repairs, operations, etc.. get lost eventually in the mists of time.

Should we not copy these and put them in a section of the 'Files' on here, for future reference when needed, and to save our 'Techie Whizzkids' from rewriting the same thing every so often??

The other thought that comes to mind, is that these Bulletin type boards, as a communication method are terrible for navigation, following threads, posting, reading etc. These days Forums are avaiable free, and a much more friendly way to go, and very simple to accees and use.

Why does this community not switch to a 'proper' Forum. I own and manage several (one with over 8,000 members) - they are free, and it would be very easy to switch from this type of Bulletin Board to a Forum.

Comments on this thought? - (I have only been a member for a few weeks, and here I am trying to upset everyone !! .... LOL).

Kindest regards to all

John

....

--- In TS-520_820_530_ 830@yahoogroups. com, "Rick Klinge" <rick@...> wrote:
>
> Wow, I have to say this is about the best neutralization procedures I've
> seen yet.
>
> Thanks for pointing out the SSS "Sam Safety Says" rule of putting your spare
> hand in your back pocket.
> Safety is always the best way to go.
>

> 73's
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> Rick Klinge
> KC5UIW
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> Subject: Re: [TS-520_820_ 530_830] Neutralization
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> Hi Andrea,
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> germanium diode. This goes across your new dummy load and the output goes to
> your digital meter set to measure mA. You'll need your transceiver in the
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> the final cage. With your 250w dummy load fitted switch on and leave it for
> 10 minutes to warm up. Tune to 28.5 megs and tune up for full power as you
> normally would. Remove your 250w dummy load and fit your new home brew dummy
> load. Switch the SG switch to off. Now you send in CW mode and you should
> see a deflection on your mA meter. On mine I get a max reading of 150 mA.
> You need to adjust the neutralising capacitor to get the lowest reading on
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> of 150 mA down to 0 mA and just a gnats adjustment either side of the 0 mA
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> 2009/12/28 Andrea Liverani <andrealiverani@ ...>
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24214. Re: MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-30 03:00:05 UTC
From: w5rkl
Topic: 23504 Message: 24214

Yes they are still there Mike.

I see there's one in my post that wasn't there when I posted it.

It's no big deal. I just wondered where they came from.

Since many people send e-mail using Blackberry's I thought it might be a special Blackberry font. Again, no big deal.

73s
Mike W5RKL
Happy Holidays

--- In TS-520_820_530_830@yahoogroups.com, Michael <ki0gv@...> wrote:
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> Mike,
> Â
> Â Boy, I have no idea.Â I sent the messages on my home computer.Â See if they are there this time
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> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: MC-50
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> 73s
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> > Yes, Brown transformer wire to Blue microphone wire.
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> > 73s
> > Mike W5RKL
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> > >
> > >
> > > The impedance transformer inside the microphone has a primary and secondary winding.

> > >
> > > The primary winding has only "2" wires.
> > >
> > > The secondary has "3" wires.
> > >
> > > I don't have an MC-50 to check but here's what I think.
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> > > 1. Brown and Black wires should show continuity between themselves but NO other wires.
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> > > If, using an ohm meter, shows the above to be true, connect the wires as follows:
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> > >
> > > Compare you ohm meter continuity test with the microphone schematic wiring.
> > >
> > > If ALL of the wires show continuity among themselves then the transformer is shorted internally and needs to be replaced.
> > >
> > > 73s
> > > Mike W5RKL
> > > Happy Holidays
> > >
> > > --- In TS-520_820_530_ 830@yahoogroups. com, "ki0gv" <ki0gv@> wrote:
> > > >
> > > > To The Group,
> > > >
> > > > This is kind of off target. But I have an MC-50 that I'm putting on my TS-520S, However the schematic I have for it is not totally correct. I'm having trouble figureing the wireing on the transformer themselves white, yellow, red, brown and black along with the black and blue wireing coming from the mic element itself. Can somebody just explain to me where these wires go, Because somebody has unsoldered the wires off of that little brass connection plate and

the wires are just everywhere.
> > > >
> > > >
> > > > Thanks & 73'S
> > > > ki0gv
> > > > Mike
> > > >
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> > [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
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24215. Re: [TS-520_820_530_830] Re: MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-30 03:12:56 UTC
From: Don Thomas
Topic: 23504 Message: 24215

I see the Â also sometimes on messages I send out. No idea what their about. Maybe Yahoo inserts them for some reason???

Don T.

--- On Tue, 12/29/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: MC-50
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, December 29, 2009, 9:00 PM

Yes they are still there Mike.

I see there's one in my post that wasn't there when I posted it.

It's no big deal. I just wondered where they came from.

Since many people send e-mail using Blackberry's I thought it might be a special Blackberry font. Again, no big deal.

[Non-text portions of this message have been removed]

24216. Re: [TS-520_820_530_830] Re: MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-30 05:35:51 UTC
From: Dave ve3wej
Topic: 23504 Message: 24216

i see the funny characters on w5rkl's reply, but not on the original from ki0gv...

but the are showing up where a space should be. are one of you using netscape or eudora for email

----- Original Message -----
From: "Michael" <ki0gv@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, December 29, 2009 8:49 PM
Subject: Re: [TS-520_820_530_830] Re: MC-50

Mike,

Boy, I have no idea. I sent the messages on my home computer. See if they are there this time

--- On Tue, 12/29/09, w5rkl <w5rkl@...> wrote:

From: w5rkl <w5rkl@...>
Subject: [TS-520_820_530_830] Re: MC-50
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, December 29, 2009, 7:16 AM

I wonder what those funny looking "A" characters with the mark above the character are from. My first thought is the message was composed and sent from a Blackberry.

73s
Mike W5RKL
Happy Holidays

--- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@...> wrote:
>
> Mike,
> Â
> Â Thanks Alot for the information.Â I got it going and appears to be
> working fine.
> Â
> 73's
> ki0gv
> Mike
>
> --- On Mon, 12/28/09, w5rkl <w5rkl@...> wrote:
>
>
> From: w5rkl <w5rkl@...>

> Subject: [TS-520_820_ 530_830] Re: MC-50
> To: TS-520_820_530_ 830@yahoogroups. com
> Date: Monday, December 28, 2009, 5:27 PM
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> Â
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>
> Yes, Brown transformer wire to Blue microphone wire.
>
> 73s
> Mike W5RKL
> Happy Holidays
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@> wrote:
> >
> > Mike,
> > Ã,Â
> > Ã,Â That really cleared it up for me,Ã,Â But the Mic element has a blue
> > and black wire on it so I take it that the blue wire goes to the brown
> > wire and the black wire goes to the black wire in the transformer and if
> > so that is the way I will put it together. Also the wires showed
> > continuity as you explained.
> > Ã,Â
> > Thanks
> > ki0gv
> > Mike
> >
> > --- On Mon, 12/28/09, w5rkl <w5rkl@> wrote:
> >
> >
> > From: w5rkl <w5rkl@>
> > Subject: [TS-520_820_ 530_830] Re: MC-50
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Date: Monday, December 28, 2009, 6:08 AM
> >
> >
> > Ã,Â
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> >
> >
> > The impedance transformer inside the microphone has a primary and
> > secondary winding.
> >
> > The primary winding has only "2" wires.
> >
> > The secondary has "3" wires.
> >
> > I don't have an MC-50 to check but here's what I think.

> >
> > 1. Brown and Black wires should show continuity between themselves but
> > NO other wires.
> >
> > 2. Yellow, White, and Red wires are the secondary wires, White being the
> > center tap. These 3 wires should show continuity between themselves but
> > NOT with the Brown and Black primary wires.
> >
> > If, using an ohm meter, shows the above to be true, connect the wires as
> > follows:
> >
> > 1. Brown to Brown microphone element wire
> >
> > 2. Black to Black microphone element wire
> >
> > 3. Yellow to pin 5 on the rear of the microphone
> >
> > 4. White to pin 1 on the rear of the microphone
> >
> > 5. Red to pin 3 on the rear of the microphone
> >
> > Again, I do not have an MC-50 to determine if I'm correct but if you use
> > an ohm meter, connect the leads to the transformer wires as follows:
> >
> > brown and Black wires should show continuity. These wires should NOT
> > show continuity with any other transformer wires.
> >
> > Yellow, White, and Red, should show continuity between themselves but
> > NOT with any other transformer wires.
> >
> > Compare you ohm meter continuity test with the microphone schematic
> > wiring.
> >
> > If ALL of the wires show continuity among themselves then the
> > transformer is shorted internally and needs to be replaced.
> >
> > 73s
> > Mike W5RKL
> > Happy Holidays
> >
> > --- In TS-520_820_530_ 830@yahoogroups. com, "ki0gv" <ki0gv@> wrote:
> > >
> > > To The Group,
> > >
> > > This is kind of off target. But I have an MC-50 that I'm putting on my
> > > TS-520S, However the schematic I have for it is not totally correct.
> > > I'm having trouble figureing the wireing on the transformer themselves
> > > white, yellow, red, brown and black along with the black and blue
> > > wireing coming from the mic element itself. Can somebody just explain
> > > to me where these wires go, Because somebody has unsoldered the wires

> > > off of that little brass connection plate and the wires are just
> > > everywhere.
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> > >
> > > Thanks & 73'S
> > > ki0gv
> > > Mike
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Yahoo! Groups Links

24217. DG1 problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-30 08:14:40 UTC
From: Andrea Liverani
Topic: 24217 Message: 24217

I am fighting against my ts-820S DG1 freq. counter.
Before downgrading the radio to TS-820 (removing the dg1)
i would like to fix it.

The problem is that the last digit (100 hz) is not working. it's always dark.

A friend borrowed me his dg1 so i made some experiments:

At first i connected the "new" dg1 to my radio and all worked fine (100hz digit working). So the problem
is not in the fluorescent display.

Then i removed the frequency counter board (the one with all the integrated circuits) and i swapped between
the two units. The problem remains so for shure the problem is in the counter board.

Before redoing all the soldering and maybe develop some further problems, i am asking to some expert
which are the components of the board that pilot or control the 100 hz digit of the display, so i can
identify the problem in minor time.

Thanks and happy new year.

_____
Di che umore sei oggi? Dillo con le Emoticon
http://intrattenimento.it.msn.com/emoticon

[Non-text portions of this message have been removed]

24218. Re: MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-30 10:43:08 UTC
From: w5rkl
Topic: 23504 Message: 24218

I use Firefox 3.5.5. I see them at times on other Yahoo Ham Group posting. Maybe it's a Yahoo thing.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@...> wrote:
>
> i see the funny characters on w5rkl's reply, but not on the original from
> ki0gv...
>
> but the are showing up where a space should be. are one of you using
> netscape or eudora for email
>
>
>
> ----- Original Message -----
> From: "Michael" <ki0gv@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Tuesday, December 29, 2009 8:49 PM
> Subject: Re: [TS-520_820_530_830] Re: MC-50
>
>
> Mike,
>
> Boy, I have no idea. I sent the messages on my home computer. See if they
> are there this time
>
> --- On Tue, 12/29/09, w5rkl <w5rkl@...> wrote:
>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_530_830] Re: MC-50
> To: TS-520_820_530_830@yahoogroups.com
> Date: Tuesday, December 29, 2009, 7:16 AM
>
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>
> I wonder what those funny looking "A" characters with the mark above the
> character are from. My first thought is the message was composed and sent
> from a Blackberry.
>

> 73s
> Mike W5RKL
> Happy Holidays
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@> wrote:
> >
> > Mike,
> > Ã□
> > Ã□ Thanks Alot for the information.Ã□ I got it going and appears to be
> > working fine.
> > Ã□
> > 73's
> > ki0gv
> > Mike
> >
> > --- On Mon, 12/28/09, w5rkl <w5rkl@> wrote:
> >
> >
> > From: w5rkl <w5rkl@>
> > Subject: [TS-520_820_ 530_830] Re: MC-50
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Date: Monday, December 28, 2009, 5:27 PM
> >
> >
> > Ã□
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> >
> >
> > Yes, Brown transformer wire to Blue microphone wire.
> >
> > 73s
> > Mike W5RKL
> > Happy Holidays
> >
> > --- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@> wrote:
> > >
> > > Mike,
> > > Ã□â□□Ã□
> > > Ã□â□□Ã□ That really cleared it up for me,Ã□â□□Ã□ But the Mic element has a blue
> > > and black wire on it so I take it that the blue wire goes to the brown
> > > wire and the black wire goes to the black wire in the transformer and if
> > > so that is the way I will put it together. Also the wires showed
> > > continuity as you explained.
> > > Ã□â□□Ã□
> > > Thanks
> > > ki0gv
> > > Mike
> > >
> > > --- On Mon, 12/28/09, w5rkl <w5rkl@> wrote:

> > >
> > >
> > > From: w5rkl <w5rkl@>
> > > Subject: [TS-520_820_ 530_830] Re: MC-50
> > > To: TS-520_820_530_ 830@yahoogroups. com
> > > Date: Monday, December 28, 2009, 6:08 AM
> > >
> > >
> > > Ã□â□□Ã□
> > >
> > >
> > >
> > > The impedance transformer inside the microphone has a primary and
> > > secondary winding.
> > >
> > > The primary winding has only "2" wires.
> > >
> > > The secondary has "3" wires.
> > >
> > > I don't have an MC-50 to check but here's what I think.
> > >
> > > 1. Brown and Black wires should show continuity between themselves but
> > > NO other wires.
> > >
> > > 2. Yellow, White, and Red wires are the secondary wires, White being the
> > > center tap. These 3 wires should show continuity between themselves but
> > > NOT with the Brown and Black primary wires.
> > >
> > > If, using an ohm meter, shows the above to be true, connect the wires as
> > > follows:
> > >
> > > 1. Brown to Brown microphone element wire
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> > >
> > > 3. Yellow to pin 5 on the rear of the microphone
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> > > 4. White to pin 1 on the rear of the microphone
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> > > 5. Red to pin 3 on the rear of the microphone
> > >
> > > Again, I do not have an MC-50 to determine if I'm correct but if you use
> > > an ohm meter, connect the leads to the transformer wires as follows:
> > >
> > > brown and Black wires should show continuity. These wires should NOT
> > > show continuity with any other transformer wires.
> > >
> > > Yellow, White, and Red, should show continuity between themselves but
> > > NOT with any other transformer wires.

> > >
> > > Compare you ohm meter continuity test with the microphone schematic
> > > wiring.
> > >
> > > If ALL of the wires show continuity among themselves then the
> > > transformer is shorted internally and needs to be replaced.
> > >
> > > 73s
> > > Mike W5RKL
> > > Happy Holidays
> > >
> > > --- In TS-520_820_530_ 830@yahoogroups. com, "ki0gv" <ki0gv@> wrote:
> > > >
> > > > To The Group,
> > > >
> > > > This is kind of off target. But I have an MC-50 that I'm putting on my
> > > > TS-520S, However the schematic I have for it is not totally correct.
> > > > I'm having trouble figureing the wireing on the transformer themselves
> > > > white, yellow, red, brown and black along with the black and blue
> > > > wireing coming from the mic element itself. Can somebody just explain
> > > > to me where these wires go, Because somebody has unsoldered the wires
> > > > off of that little brass connection plate and the wires are just
> > > > everywhere.
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> > > >
> > > > Thanks & 73'S
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> > > > Mike
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> Yahoo! Groups Links
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24219. Re: DG1 problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-30 10:55:11 UTC
From: w5rkl
Topic: 24217 Message: 24219

Andrea,

the DG-1 has 2 PC boards inside the metal enclosure. Over time the fixed pins and socket the pins insert into inside the metal enclosure become dirty and corroded. When this happens, strange things happen with the DG-1. Cleaning often but not always, eliminates some of these problems.

Remove the DG-1, remove the outer covers, then remove each PC board, one at a time, apply contact cleaner to the pins and PC board connection sockets. Insert the board a few times into the metal enclosure then secure the board using the mounting screws. Use canned air to remove any excess contact cleaner and dirt. Applying contact cleaner and inserting the PC boards a few times causes a "scrubbing" action to occur between the pins and the PC board pin sockets, cleaning the contact points providing a more solid connection.

Do the same to the other board. Always handle the boards with care by the edges and do NOT force the boards onto the pin. If done right the boards should slide easily onto the pins and seat flush with and into the metal enclosure.

Make sure you do not over tighten the board mounting screws or the metal enclosure screws. You could easily strip the threads on the screws.

Reinstall the DG-1 and test.

The small 5VDC UNIT that is mounted just to the right of the IF UNIT, provides 5VDC to the COUNTER UNIT. Clean the plug with contact cleaner.

The multi-wire plug that connects the display tube to the COUNTER UNIT should also be cleaned the same way the boards, pins, and socket inside the DG-1 metal enclosure's are. Be careful not to break any of the wires.

73s
Mike W5RKL
Happy Holidays

--- In TS-520_820_530_830@yahoogroups.com, Andrea Liverani <andrealiverani@...> wrote:
>
>
>
> I am fighting against my ts-820S DG1 freq. counter.
> Before downgrading the radio to TS-820 (removing the dg1)
> i would like to fix it.
>
> The problem is that the last digit (100 hz) is not working. it's always dark.
>
> A friend borrowed me his dg1 so i made some experiments:
>
> At first i connected the "new" dg1 to my radio and all worked fine (100hz digit working).

So the problem
> is not in the fluorescent display.
>
> Then i removed the frequency counter board (the one with all the integrated circuits) and
i swapped between
> the two units. The problem remains so for shure the problem is in the counter board.
>
> Before redoing all the soldering and maybe develop some further problems, i am asking to
some expert
> which are the components of the board that pilot or control the 100 hz digit of the
display, so i can
> identify the problem in minor time.
>
> Thanks and happy new year.
>
>
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>
> _____
> Di che umore sei oggi? Dillo con le Emoticon
> http://intrattenimento.it.msn.com/emoticon
>
> [Non-text portions of this message have been removed]
>

24220. Re: MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-30 10:57:10 UTC
From: w5rkl
Topic: 23504 Message: 24220

The operating system I use is Windows 2000 Professional Service Pack 4.

73s
Mike W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> I use Firefox 3.5.5. I see them at times on other Yahoo Ham Group posting. Maybe it's a Yahoo thing.
>
> 73s
> Mike W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Dave ve3wej" <ve3wej@> wrote:
> >
> > i see the funny characters on w5rkl's reply, but not on the original from
> > ki0gv...
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> > but the are showing up where a space should be. are one of you using
> > netscape or eudora for email
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> >
> >
> > ----- Original Message -----
> > From: "Michael" <ki0gv@>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Tuesday, December 29, 2009 8:49 PM
> > Subject: Re: [TS-520_820_530_830] Re: MC-50
> >
> >
> > Mike,
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> > Boy, I have no idea. I sent the messages on my home computer. See if they
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> > From: w5rkl <w5rkl@>
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> > I wonder what those funny looking "A" characters with the mark above the
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> > > > Mike W5RKL
> > > > Happy Holidays
> > > >
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> > > > > To The Group,
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> > > > > This is kind of off target. But I have an MC-50 that I'm putting on my
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> > > > > white, yellow, red, brown and black along with the black and blue
> > > > > wireing coming from the mic element itself. Can somebody just explain
> > > > > to me where these wires go, Because somebody has unsoldered the wires
> > > > > off of that little brass connection plate and the wires are just
> > > > > everywhere.
> > > > >
> > > > >
> > > > > Thanks & 73'S
> > > > > ki0gv
> > > > > Mike
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> >
> > Yahoo! Groups Links
> >
>

24221. RE: [TS-520_820_530_830] Re: DG1 problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-30 11:07:15 UTC
From: Andrea Liverani
Topic: 24217 Message: 24221

Hi, yes , the first thing i have done is cleaning the pin and sockets.
to be shure that the problem is in the counter board i have swapped the board inside another DG1 that is perfect working and the 100HZ problem is replicated in the other DG1 so it must be a component failure or a bad soldering in the counter board.
If i know which IC are involved in piloting or generating the signal for the 100hz counter digit i will focus in resoldering the components and checking continuity of the traces.

To: TS-520_820_530_830@yahoogroups.com
From: w5rkl@...
Date: Wed, 30 Dec 2009 10:55:11 +0000
Subject: [TS-520_820_530_830] Re: DG1 problems

Andrea,

the DG-1 has 2 PC boards inside the metal enclosure. Over time the fixed pins and socket the pins insert into inside the metal enclosure become dirty and corroded. When this happens, strange things happen with the DG-1. Cleaning often but not always, eliminates some of these problems.

Remove the DG-1, remove the outer covers, then remove each PC board, one at a time, apply contact cleaner to the pins and PC board connection sockets. Insert the board a few times into the metal enclosure then secure the board using the mounting screws. Use canned air to remove any excess contact cleaner and dirt. Applying contact cleaner and inserting the PC boards a few times causes a "scrubbing" action to occur between the pins and the PC board pin sockets, cleaning the contact points providing a more solid connection.

Do the same to the other board. Always handle the boards with care by the edges and do NOT force the boards onto the pin. If done right the boards should slide easily onto the pins and seat flush with and into the metal enclosure.

Make sure you do not over tighten the board mounting screws or the metal enclosure screws. You could easily strip the threads on the screws.

Reinstall the DG-1 and test.

The small 5VDC UNIT that is mounted just to the right of the IF UNIT, provides 5VDC to the COUNTER UNIT. Clean the plug with contact cleaner.

The multi-wire plug that connects the display tube to the COUNTER UNIT should also be cleaned the same way the boards, pins, and socket inside the DG-1 metal enclosure's are. Be careful not to break any of the wires.

73s

Mike W5RKL

Happy Holidays

--- In TS-520_820_530_830@yahoogroups.com, Andrea Liverani <andrealiverani@...> wrote:

>

>

>

> I am fighting against my ts-820S DG1 freq. counter.

> Before downgrading the radio to TS-820 (removing the dg1)

> i would like to fix it.

>

> The problem is that the last digit (100 hz) is not working. it's always dark.

>

> A friend borrowed me his dg1 so i made some experiments:

>

> At first i connected the "new" dg1 to my radio and all worked fine (100hz digit working). So the problem

> is not in the fluorescent display.

>

> Then i removed the frequency counter board (the one with all the integrated circuits) and i swapped between

> the two units. The problem remains so for shure the problem is in the counter board.

>

> Before redoing all the soldering and maybe develop some further problems, i am asking to some expert

> which are the components of the board that pilot or control the 100 hz digit of the display, so i can

> identify the problem in minor time.

>

> Thanks and happy new year.

>

>

>

>

> _____

> Di che umore sei oggi? Dillo con le Emoticon

> http://intrattenimento.it.msn.com/emoticon

>

> [Non-text portions of this message have been removed]

>

_____
Giochi, radio, TV... E tutti i tuoi amici. Cercali su Messenger
http://www.messenger.it/home_comunica.aspx

[Non-text portions of this message have been removed]

24222. Re: R 820 TS 820s connecting cable

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-30 20:14:11 UTC
From: n6wk_skcc3
Topic: 24192 Message: 24222

Hi Mike,
I have the connectors. I sell them for $8.50 each plus shipping.
If interested, contact me directly.

73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "ork0269" <ork0269@...> wrote:
>
> Hi guys I am looking for 2 of the connectors to conect the ts 820 to the r 820 ..Thanks Mike KA1CU
>

24223. Re: DG1 problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-30 21:54:12 UTC
From: Ken
Topic: 24217 Message: 24223

Andrea,

The first thing to check is both boards (working and non-working) for cut diodes. There may be a diode that needs to be cut in the non-working board to enable the least significent digit. If there is a diode cut to allow this, make sure that the cut has not "HEALED" by making the leads connect again somehow.

After that is checked, the circuitry should be easily followed if you have the schematic. I do not have the manual or rig you are asking about but typically the data for all the digits is provided by a buss of sorts carrying the segment data to all of the display segments in parallel. During the time that each digit is due to light up and display data 2 things happen.

1. The segment data for that digit is placed on the buss.
2. The digit is activated or selected by the driver IC.

This happens at a fast speed so it's not apparent that only ONE digit is operating at a time.

Look at the schematic or the unit and see if you can identify the 7 wires for the segment data buss and the digit select lines, one for each digit and symbol. Once you have id'd the lines, it is a simple matter to look for the select line for the missing digit and follow that line back to the driver IC. If you have a scope, it's easy to compare the digit select line for another digit to see if the line is actively selecting (enabling) the non-working digit or not.

Basic computer display troubleshooting technique here.

Ken Hunter

--- In TS-520_820_530_830@yahoogroups.com, Andrea Liverani <andrealiverani@...> wrote:
>
>
> Hi, yes , the first thing i have done is cleaning the pin and sockets.
> to be shure that the problem is in the counter board i have swapped the board inside another DG1 that is perfect working and the 100HZ problem is replicated in the other DG1 so it must be a component failure or a bad soldering in the counter board.
> If i know which IC are involved in piloting or generating the signal for the 100hz counter digit i will focus in resoldering the components and checking continuity of the traces.
>

24224. Re: DG1 problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-30 21:57:31 UTC
From: Ken
Topic: 24217 Message: 24224

Also...

Don't forget to check the connector pins. I recently posted about several connector pins that were not seated fully into the connector and were making intermittent or no contact. You might have this issue on the 100hz digit select pin/wire.

Let us know what you find!

Ken Hunter

--- In TS-520_820_530_830@yahoogroups.com, Andrea Liverani <andrealiverani@...> wrote:
>
>
> Hi, yes , the first thing i have done is cleaning the pin and sockets.
> to be shure that the problem is in the counter board i have swapped the board inside another DG1 that is perfect working and the 100HZ problem is replicated in the other DG1 so it must be a component failure or a bad soldering in the counter board.
> If i know which IC are involved in piloting or generating the signal for the 100hz counter digit i will focus in resoldering the components and checking continuity of the traces.
>

24225. RE: [TS-520_820_530_830] Re: DG1 problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-30 22:50:56 UTC
From: Andrea Liverani
Topic: 24217 Message: 24225

Hi ken thank you very much ..

can i ask you to put a glance to the schematic?

here is the manual :

http://www.n6wk.com/kenwood/TS820_SvcManHighRes.pdf

from page 69 to 81 you find the DG1

This evening i have cleaned again the two sandwich boards an redo many soldering ...
the problem remains..

the DG1 is composed of 2 boards (i call A and B) and the display as i had 2 UNITS i made this swap:

BOARD A1 WITH BOARD B1 all working fine
BOARD A2 WITH BOARD B2 i have no 100hz digit

BOARD A2 WITH BOARD B1 all working fine
BOARD A1 WITH BOARD B2 i have no 100hz digit

so for shure board B2 has some failure.
and this board has no diodes just a couple of transistors and a lot of integrated circuits..

if you can locate from the service manual which are the components involved with the 100hz digit let me know so i can try something. Unfortunately i am very scarce in digital electronic.

73'

To: TS-520_820_530_830@yahoogroups.com
From: atm_ken_hunter@...
Date: Wed, 30 Dec 2009 21:54:12 +0000
Subject: [TS-520_820_530_830] Re: DG1 problems

Andrea,

The first thing to check is both boards (working and non-working) for cut diodes. There may be a diode that needs to be cut in the non-working board to enable the least significent digit. If there is a diode cut to allow this, make sure that the cut has not "HEALED" by making the leads connect again somehow.

After that is checked, the circuitry should be easily followed if you have the schematic. I do not have the manual or rig you are asking about but typically the data for all the digits is provided by a buss of sorts carrying the segment data to all of the display segments in parallel. During the time that each digit is due to light up and display data 2 things happen.

1. The segment data for that digit is placed on the buss.

2. The digit is activated or selected by the driver IC.

This happens at a fast speed so it's not apparent that only ONE digit is operating at a time.

Look at the schematic or the unit and see if you can identify the 7 wires for the segment data buss and the digit select lines, one for each digit and symbol. Once you have id'd the lines, it is a simple matter to look for the select line for the missing digit and follow that line back to the driver IC. If you have a scope, it's easy to compare the digit select line for another digit to see if the line is actively selecting (enabling) the non-working digit or not.

Basic computer display troubleshooting technique here.

Ken Hunter

--- In TS-520_820_530_830@yahoogroups.com, Andrea Liverani <andrealiverani@...> wrote:

>

>

> Hi, yes , the first thing i have done is cleaning the pin and sockets.

> to be shure that the problem is in the counter board i have swapped the board inside another DG1 that is perfect working and the 100HZ problem is replicated in the other DG1 so it must be a component failure or a bad soldering in the counter board.

> If i know which IC are involved in piloting or generating the signal for the 100hz counter digit i will focus in resoldering the components and checking continuity of the traces.

>

_____
Di che umore sei oggi? Dillo con le Emoticon
http://intrattenimento.it.msn.com/emoticon

[Non-text portions of this message have been removed]

24226. Re: [TS-520_820_530_830] Re: MC-50

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-30 23:46:27 UTC
From: Michael
Topic: 23504 Message: 24226

No on the netscape and eudora. I use Internet explorer.

ki0gv
Mike

--- On Tue, 12/29/09, Dave ve3wej <ve3wej@...> wrote:

From: Dave ve3wej <ve3wej@...>
Subject: Re: [TS-520_820_530_830] Re: MC-50
To: TS-520_820_530_830@yahoogroups.com
Date: Tuesday, December 29, 2009, 11:35 PM

i see the funny characters on w5rkl's reply, but not on the original from
ki0gv...

but the are showing up where a space should be. are one of you using
netscape or eudora for email

----- Original Message -----
From: "Michael" <ki0gv@yahoo. com>
To: <TS-520_820_530_ 830@yahoogroups. com>
Sent: Tuesday, December 29, 2009 8:49 PM
Subject: Re: [TS-520_820_ 530_830] Re: MC-50

Mike,

Boy, I have no idea. I sent the messages on my home computer. See if they
are there this time

--- On Tue, 12/29/09, w5rkl <w5rkl@yahoo. com> wrote:

From: w5rkl <w5rkl@yahoo. com>
Subject: [TS-520_820_ 530_830] Re: MC-50
To: TS-520_820_530_ 830@yahoogroups. com
Date: Tuesday, December 29, 2009, 7:16 AM

I wonder what those funny looking "A" characters with the mark above the
character are from. My first thought is the message was composed and sent
from a Blackberry.

73s
Mike W5RKL
Happy Holidays

--- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@...> wrote:
>
> Mike,
> Â

> Â Thanks Alot for the information.Â I got it going and appears to be
> working fine.
> Â
> 73's
> ki0gv
> Mike
>
> --- On Mon, 12/28/09, w5rkl <w5rkl@...> wrote:
>
>
> From: w5rkl <w5rkl@...>
> Subject: [TS-520_820_ 530_830] Re: MC-50
> To: TS-520_820_530_ 830@yahoogroups. com
> Date: Monday, December 28, 2009, 5:27 PM
>
>
> Â
>
>
>
> Yes, Brown transformer wire to Blue microphone wire.
>
> 73s
> Mike W5RKL
> Happy Holidays
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Michael <ki0gv@> wrote:
> >
> > Mike,
> > Ã,Â
> > Ã,Â That really cleared it up for me,Ã,Â But the Mic element has a blue
> > and black wire on it so I take it that the blue wire goes to the brown
> > wire and the black wire goes to the black wire in the transformer and if
> > so that is the way I will put it together. Also the wires showed
> > continuity as you explained.
> > Ã,Â
> > Thanks
> > ki0gv
> > Mike
> >
> > --- On Mon, 12/28/09, w5rkl <w5rkl@> wrote:
> >
> >
> > From: w5rkl <w5rkl@>
> > Subject: [TS-520_820_ 530_830] Re: MC-50
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Date: Monday, December 28, 2009, 6:08 AM
> >
> >
> > Ã,Â

> >
> >
> >
> > The impedance transformer inside the microphone has a primary and
> > secondary winding.
> >
> > The primary winding has only "2" wires.
> >
> > The secondary has "3" wires.
> >
> > I don't have an MC-50 to check but here's what I think.
> >
> > 1. Brown and Black wires should show continuity between themselves but
> > NO other wires.
> >
> > 2. Yellow, White, and Red wires are the secondary wires, White being the
> > center tap. These 3 wires should show continuity between themselves but
> > NOT with the Brown and Black primary wires.
> >
> > If, using an ohm meter, shows the above to be true, connect the wires as
> > follows:
> >
> > 1. Brown to Brown microphone element wire
> >
> > 2. Black to Black microphone element wire
> >
> > 3. Yellow to pin 5 on the rear of the microphone
> >
> > 4. White to pin 1 on the rear of the microphone
> >
> > 5. Red to pin 3 on the rear of the microphone
> >
> > Again, I do not have an MC-50 to determine if I'm correct but if you use
> > an ohm meter, connect the leads to the transformer wires as follows:
> >
> > brown and Black wires should show continuity. These wires should NOT
> > show continuity with any other transformer wires.
> >
> > Yellow, White, and Red, should show continuity between themselves but
> > NOT with any other transformer wires.
> >
> > Compare you ohm meter continuity test with the microphone schematic
> > wiring.
> >
> > If ALL of the wires show continuity among themselves then the
> > transformer is shorted internally and needs to be replaced.
> >
> > 73s
> > Mike W5RKL
> > Happy Holidays

> >
> > --- In TS-520_820_530_ 830@yahoogroups. com, "ki0gv" <ki0gv@> wrote:
> > >
> > > To The Group,
> > >
> > > This is kind of off target. But I have an MC-50 that I'm putting on my
> > > TS-520S, However the schematic I have for it is not totally correct.
> > > I'm having trouble figureing the wireing on the transformer themselves
> > > white, yellow, red, brown and black along with the black and blue
> > > wireing coming from the mic element itself. Can somebody just explain
> > > to me where these wires go, Because somebody has unsoldered the wires
> > > off of that little brass connection plate and the wires are just
> > > everywhere.
> > >
> > >
> > > Thanks & 73'S
> > > ki0gv
> > > Mike
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Yahoo! Groups Links

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24227. Re: What happened to all the ops

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-30 23:42:30 UTC
From: Dale
Topic: 24155 Message: 24227

That was how I found this site.

Dale
kc9rce

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> I visit a lot of ham forums such as qrz.com, eham.net, and qth.net and read a lot of the messages posted on these forum. I can honestly say when someone asks a question about their Kenwood hybrid, whether it is a TS-520, TS-530, TS-820, or a TS-830, in almost every case, the person asking the question is referred to this forum! That simple referral, in itself, speaks highly of this forum!
>
> 73s
> Mike W5RKL
> Happy Holidays
>
> --- In TS-520_820_530_830@yahoogroups.com, "Bernie" <pizzameister2001@> wrote:
> >
> > The thought just hit me after going through all the amateur adds on ebay selling their equipment - all the ops must be in this group because most of the stuff being sold is from estates. I'm starting to wonder if being an amateur op is a safe hobby. hihi
> >
> >
> > Bernie in MI
> >
>

24228. Re: DG1 problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-31 16:50:36 UTC
From: Ken
Topic: 24217 Message: 24228

OK, Thanks for the manual. I downloaded it and here's the troubleshooting procedure I would use.

Page 77, lower right corner shows the assignment of the display tube segments.
Notice the 7 segments shown as a-f. Just above the tube connections segments a-f are the PLATE connections all wired in parallel for handling the DATA for the segments. These are pins Pa-Pf on the card connector. These connections are common to all digits so these cannot be the cause of your problem since any one digit proves these are working correctly.

Notice also on page 77 the drawing of the tube showing the assignment of the digits, (Grid 1 thru Grid 6 and the decimal point). This would indicate that the missing digit would be associated with Grid 5 (100hz). Also note the display tube drawing is not complete to keep from having TOO MUCH detail on the drawing. Grids 2-5 are not drawn in but are exactly like Grids 1&6. The decimal point is also the same. You should be able to recognize that the display has at least 7 "vacuum tubes" (filament, grid, plate) represented, one for each digit and one for the Decimal point.

Your problem is the 100Hz digit not working with one card but is working with another driver card. This eliminates the display card seen on page 77 as the problem but the information on page 77 tells us where to look. We need to follow the G5 signal back to it's source.

Page 78 shows the G5 signal is connected to the collector of a PNP transistor (Q15) The base of Q15 is driven by a signal T5 coming from an external source. RB! is associated with the collectors of the driver transistors and RB3 is associated with the Base's of the driver transistors. There is also one diode D18 that is associated with the 100Hz digit.

I would prefer to use a scope to check these signals but a DVM or VOM can be used if that's all that you have.

From theory, the digits are scanned at a rate that will allow you to perceive that all the digits are on all the time. You don't see one digit followed by the next though that is really what is happening. Knowing this, you should be able to safely assume that whatever happens to digit 1 should happen to digit 2 and 3 etc in close order for the display to cycle through the digits.

So... Put your scope or meter lead on the collector of Q15 and look to see what you can see. Q15 should change states at a very rapid rate and not be locked to the Positive supply voltage or the ground potential. A scope will show you the actual "picture" of what's going on. A DVM or VOM will show you the "AVERAGE" of what's going on. Q15 should show the same type signal or average voltage as any of the other Grid driver collectors.

IF the collector of Q15 is at the supply voltage, it is not being driven or is open circuited (Check for Q15 wiring and possible open R49). If Q15 collector is at ground potential, it is either Q15 shorted or D18 (not likely if the DP is OK). At any rate, now you know where to check.

If you find a problem with a resistor in RB1 or RB3, you can bypass the defective part in the RB by wiring around or in series. It's sometimes a lot easier than finding/getting the whole resistor pack. These things are usually not the cause of problems as they are highly reliable but distributers such as DigiKey and Mouser have them in stock.

Ken Hunter

--- In TS-520_820_530_830@yahoogroups.com, Andrea Liverani <andrealiverani@...> wrote:
>
>
> Hi ken thank you very much ..
>
> can i ask you to put a glance to the schematic?
>
> here is the manual :
>
> http://www.n6wk.com/kenwood/TS820_SvcManHighRes.pdf
>
> from page 69 to 81 you find the DG1
>
> This evening i have cleaned again the two sandwich boards an redo many soldering ...
> the problem remains..
>
>
> the DG1 is composed of 2 boards (i call A and B) and the display as i had 2 UNITS i made this swap:
>
>
> BOARD A1 WITH BOARD B1 all working fine
> BOARD A2 WITH BOARD B2 i have no 100hz digit
>
> BOARD A2 WITH BOARD B1 all working fine
> BOARD A1 WITH BOARD B2 i have no 100hz digit
>
> so for shure board B2 has some failure.
> and this board has no diodes just a couple of transistors and a lot of integrated circuits..
>
> if you can locate from the service manual which are the components involved with the 100hz
> digit let me know so i can try something. Unfortunately i am very scarce in digital electronic.
>
> 73'
>
> To: TS-520_820_530_830@yahoogroups.com
> From: atm_ken_hunter@...
> Date: Wed, 30 Dec 2009 21:54:12 +0000
> Subject: [TS-520_820_530_830] Re: DG1 problems
>
>
>

>
>
>

> This happens at a fast speed so it's not apparent that only ONE digit is operating at a time.
>
>
>
> Look at the schematic or the unit and see if you can identify the 7 wires for the segment data buss and the digit select lines, one for each digit and symbol. Once you have id'd the lines, it is a simple matter to look for the select line for the missing digit and follow that line back to the driver IC. If you have a scope, it's easy to compare the digit select line for another digit to see if the line is actively selecting (enabling) the non-working digit or not.
>
>
>
> Basic computer display troubleshooting technique here.
>
>
>
> Ken Hunter
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, Andrea Liverani <andrealiverani@> wrote:
>
> >
>
> >
>
> > Hi, yes , the first thing i have done is cleaning the pin and sockets.
>
> > to be shure that the problem is in the counter board i have swapped the board inside another DG1 that is perfect working and the 100HZ problem is replicated in the other DG1 so it must be a component failure or a bad soldering in the counter board.
>
> > If i know which IC are involved in piloting or generating the signal for the 100hz counter digit i will focus in resoldering the components and checking continuity of the traces.
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> ---
> Di che umore sei oggi? Dillo con le Emoticon
> http://intrattenimento.it.msn.com/emoticon
>
> [Non-text portions of this message have been removed]
>

24229. Re: DG1 problems

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-31 17:03:41 UTC
From: Ken
Topic: 24217 Message: 24229

--- In TS-520_820_530_830@yahoogroups.com, Andrea Liverani <andrealiverani@...> wrote:
>
>
> Hi ken thank you very much ..
>
> can i ask you to put a glance to the schematic?

Forgot to comment on the T5 signal from the other board (Page 80). I would not expect the T5 signal to be bad because it is used to generate a lot of the signals that appear good in the other digits. Of course, the interconnection for T5 between the boards could be suspect.

Ken Hunter - KB7H

24230. TS-520S wiring schematic to a yaesu FL 2100B

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-31 05:29:15 UTC
From: keithm
Topic: 24230 Message: 24230

Just trying to find a diagram on how to wire a Yaesu Fl 2100b to a a TS-520s, aand any info that would help me get this right without any damage due to mis-wire. Want to build a all kenwood station but this ampis what i have to work with. on fixed income so it may be a bit until i can get all the kenwood options, thanks for any help (ki4vdc)
Keith 73's

24231. Re: TS-520S wiring schematic to a yaesu FL 2100B

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-31 19:49:31 UTC
From: w5rkl
Topic: 24230 Message: 24231

First, you do not need an amplifier interface unit between the 520 and the FL-2100B! The relay contacts in the 520 can easily handle the amplifier's low relay control voltage.

Make all of the connections with power turned "OFF" on both the FL-2100B amplifier and the TS-520.

Remove any/all jumpers between the terminals on the rear of the FL-2100B.

The terminal strip on the rear of the amplifier is labeled as follows:

"RY" "E" "ALC" "E"

Each "E" terminal is connected to chassis ground inside the FL-2100B. Therefore, any ground returns are made to the "E" terminals.

The 8 pin octal socket on the rear of the 520 allows access to the linear amplifier ALC input to the TS-520, linear amplifier relay control terminals, and ground. I recommend using an 8 pin octal plug, available at Radio Daze www.radiodaze.com, when making the following connections. In addition, I recommend using shielded cable for each connection.

To connect the FL-2100B to the TS-520, make the following connections. Make all connections using shield cable.

Connect the "RY" terminal on the FL-2100B's rear terminal strip to pin "5" on the 520's rear 8 pin octal socket.

Connect the "ALC" terminal on the FL-2100B's rear terminal strip to pin "6" on the TS-520's rear 8 pin octal socket.

Connect the "E" terminal on the FL-2100B's rear terminal strip to pin 1 or 4 on the TS-520's rear 8 pin octal socket.

Connect a short length of coax from the TS-520's rear SO-239 to the FL-2100B input SO-239. Connect a length of coax cable capable of handling at least 1KW (RG-8x) to the FL-2100B output SO-239 and any tuner or directly to the antenna. If you use a tuner, the tuner must be have a power rating of at least 1KW. The tuner is connected between the output of the FL-2100B and the antenna, NOT between the TS-520 and the FL-2100B! Any dummy load you may use to tune the amplifier up must have the same power rating, 1KW! Do NOT attempt to use a dummy load that has a much lower power rating. You can easily damage the dummy load and the FL-2100B amplifier!

I recommend wiring the FL-2100B's power transformer for 220VAC operation. This is covered on "4" of the operator's manual. This will require having a 220VAC line run from your breaker box to your shack and the appropriate socket installed. The 220VAC line should be on it's own minimum 10amp breaker. That means nothing else is powered from this dedicated 220VAC line that powers the amplifier. Be safe NOT foolish!

You can operate the FL-2100B on 120VAC but the current demand is 18 amps at peak output. I do not recommend operating the FL-2100B on 120VAC, you can easily overload the wiring.

That's all there is to the connections.

Again, I recommend purchasing an 8 pin octal male plug and making the connections as indicated above.

Now, if you do not have the FL-2100B operating manual, I highly recommend you download it, free, from the following link. Do not attempt to operate the amplifier without thoroughly reading and understanding the operators manual!

http://www.rigpix.com/linears/yaesu_fl2100b_manual.pdf

Failure to follow the operating procedures and all safety/cautions outlined in the FL-2100B operating manual can result in damage to the amplifier, the TS-520, and overloading of your house wiring.

73s
Mike W5RKL
Happy New Year

--- In TS-520_820_530_830@yahoogroups.com, "keithm" <k_mckinster@...> wrote:
>
> Just trying to find a diagram on how to wire a Yaesu Fl 2100b to a a TS-520s, aand any info that would help me get this right without any damage due to mis-wire. Want to build a all kenwood station but this ampis what i have to work with. on fixed income so it may be a bit until i can get all the kenwood options, thanks for any help (ki4vdc)
> Keith 73's
>

24232. Power transformer wiring?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-31 20:31:18 UTC
From: Kris
Topic: 24232 Message: 24232

Started playing with a Working? TS-830S picked up off of Ebay. I replaced some broken parts that were obviously that way when shipped. After I removed all the covers I found some disconnected wires by the power transformer. There are several loose wires on the transformer and these three (white w/blue, white w/red, white w/orange) which are disconnected/taped off. I found the manual online and can see where the power wires for operation need to be connected but not these. Any help out there? Kris

24233. Re: TS-520S wiring schematic to a yaesu FL 2100B

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-31 21:08:16 UTC
From: w5rkl
Topic: 24230 Message: 24233

A few additional comments.

Do not stack anything on top of or along the sides of the amplifier. Doing so will restrict air flow around and through the amplifier leading to damage to the tubes and the amplifier itself.

Do not over drive the amplifier to achieve a few extra watts output. Read and adhere to all operating steps, cautions, and warning, outlined in the manual.

Do not change bands with the amplifier keyed. This can lead to permanent damage to the band switch wafers and the amplifier itself.

Do not attempt to operate the Fl-2100B with the cover removed! There is an interlock push button switch (S7) that shorts the HV to chassis ground if the cover is removed. It is not a good idea to disable this interlock push button.

73s
Mike W5RKL
Happy New Year

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
>
> First, you do not need an amplifier interface unit between the 520 and the FL-2100B! The relay contacts in the 520 can easily handle the amplifier's low relay control voltage.
>
> Make all of the connections with power turned "OFF" on both the FL-2100B amplifier and the TS-520.
>
> Remove any/all jumpers between the terminals on the rear of the FL-2100B.
>
> The terminal strip on the rear of the amplifier is labeled as follows:
>
> "RY" "E" "ALC" "E"
>
> Each "E" terminal is connected to chassis ground inside the FL-2100B. Therefore, any ground returns are made to the "E" terminals.
>
> The 8 pin octal socket on the rear of the 520 allows access to the linear amplifier ALC input to the TS-520, linear amplifier relay control terminals, and ground. I recommend using an 8 pin octal plug, available at Radio Daze www.radiodaze.com, when making the following connections. In addition, I recommend using shielded cable for each connection.
>
> To connect the FL-2100B to the TS-520, make the following connections. Make all connections using shield cable.
>

> Connect the "RY" terminal on the FL-2100B's rear terminal strip to pin "5" on the 520's rear 8 pin octal socket.
>
> Connect the "ALC" terminal on the FL-2100B's rear terminal strip to pin "6" on the TS-520's rear 8 pin octal socket.
>
> Connect the "E" terminal on the FL-2100B's rear terminal strip to pin 1 or 4 on the TS-520's rear 8 pin octal socket.
>
> Connect a short length of coax from the TS-520's rear SO-239 to the FL-2100B input SO-239. Connect a length of coax cable capable of handling at least 1KW (RG-8x) to the FL-2100B output SO-239 and any tuner or directly to the antenna. If you use a tuner, the tuner must be have a power rating of at least 1KW. The tuner is connected between the output of the FL-2100B and the antenna, NOT between the TS-520 and the FL-2100B! Any dummy load you may use to tune the amplifier up must have the same power rating, 1KW! Do NOT attempt to use a dummy load that has a much lower power rating. You can easily damage the dummy load and the FL-2100B amplifier!
>
> I recommend wiring the FL-2100B's power transformer for 220VAC operation. This is covered on "4" of the operator's manual. This will require having a 220VAC line run from your breaker box to your shack and the appropriate socket installed. The 220VAC line should be on it's own minimum 10amp breaker. That means nothing else is powered from this dedicated 220VAC line that powers the amplifier. Be safe NOT foolish!
>
> You can operate the FL-2100B on 120VAC but the current demand is 18 amps at peak output. I do not recommend operating the FL-2100B on 120VAC, you can easily overload the wiring.
>
> That's all there is to the connections.
>
> Again, I recommend purchasing an 8 pin octal male plug and making the connections as indicated above.
>
> Now, if you do not have the FL-2100B operating manual, I highly recommend you download it, free, from the following link. Do not attempt to operate the amplifier without thoroughly reading and understanding the operators manual!
>
> http://www.rigpix.com/linears/yaesu_fl2100b_manual.pdf
>
> Failure to follow the operating procedures and all safety/cautions outlined in the FL-2100B operating manual can result in damage to the amplifier, the TS-520, and overloading of your house wiring.
>
>
> 73s
> Mike W5RKL
> Happy New Year
>
> --- In TS-520_820_530_830@yahoogroups.com, "keithm" <k_mckinster@> wrote:
> >
> > Just trying to find a diagram on how to wire a Yaesu Fl 2100b to a a TS-520s, aand any

info that would help me get this right without any damage due to mis-wire. Want to build a all kenwood station but this ampis what i have to work with. on fixed income so it may be a bit until i can get all the kenwood options, thanks for any help (ki4vdc)
> > Keith 73's
> >
>

24234. Re: Power transformer wiring?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-31 21:35:18 UTC
From: w5rkl
Topic: 24232 Message: 24234

The "White w/Blue" wire appears to be connected to either the "-C" terminal or the "PD2" terminal on the Rectifier Unit.

The "White w/Orange" wire appears to be connected to the "STB" terminal on the Rectifier Unit.

The "White w/Red" wire appears it may connect to the "210B" terminal on the Rectifier Unit.

I'm not 100% sure about the connections mentioned above. I have a high resolution color image of an actual TS-830 Rectifier Unit and the wires connected to it from the power transformer.

I question why the wires are disconnected in the first place? Is the power transformer bad? Are these windings shorted? Did the seller make any mention whether the 830 worked or not? If the seller's description said something like, "I have not powered up the radio nor do I have any way of testing the radio..." then most likely the radio has problems.

Look in the "files" section of this group for a power transformer saver circuit. The file is labeled "Save your power transformer". Since there is no guarantee the power transformer is any good, I recommend using this circuit once you are sure it's safe to apply power to the transformer.

I would not apply power to the 830 until you are absolutely sure the power transformer is good, don't even bring it up on a variable power AC transformer!

73s
Mike W5RKL
Happy New Year

--- In TS-520_820_530_830@yahoogroups.com, "Kris" <blackhorse6869@...> wrote:
>
> Started playing with a Working? TS-830S picked up off of Ebay. I replaced some broken parts that were obviously that way when shipped. After I removed all the covers I found some disconnected wires by the power transformer. There are several loose wires on the transformer and these three (white w/blue, white w/red, white w/orange) which are disconnected/taped off. I found the manual online and can see where the power wires for operation need to be connected but not these. Any help out there? Kris
>

24235. Re: [TS-520_820_530_830] Re: Power transformer wiring?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-31 21:57:04 UTC
From: n6wk@n6wk.com
Topic: 24232 Message: 24235

I have some very good pictures of the connections of the TS-830S
rectifier board on my web site look for TS-830S Transformer outputs.
The Wires and colors are clearly shown
www.n6wk.com/kenwood

w5rkl wrote:
>
>
> The "White w/Blue" wire appears to be connected to either the "-C"
> terminal or the "PD2" terminal on the Rectifier Unit.
>
> The "White w/Orange" wire appears to be connected to the "STB"
> terminal on the Rectifier Unit.
>
> The "White w/Red" wire appears it may connect to the "210B" terminal
> on the Rectifier Unit.
>
> I'm not 100% sure about the connections mentioned above. I have a high
> resolution color image of an actual TS-830 Rectifier Unit and the
> wires connected to it from the power transformer.
>
> I question why the wires are disconnected in the first place? Is the
> power transformer bad? Are these windings shorted? Did the seller make
> any mention whether the 830 worked or not? If the seller's description
> said something like, "I have not powered up the radio nor do I have
> any way of testing the radio..." then most likely the radio has problems.
>
> Look in the "files" section of this group for a power transformer
> saver circuit. The file is labeled "Save your power transformer".
> Since there is no guarantee the power transformer is any good, I
> recommend using this circuit once you are sure it's safe to apply
> power to the transformer.
>
> I would not apply power to the 830 until you are absolutely sure the
> power transformer is good, don't even bring it up on a variable power
> AC transformer!
>
> 73s
> Mike W5RKL
> Happy New Year
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Kris"
> <blackhorse6869@...> wrote:
> >

> > Started playing with a Working? TS-830S picked up off of Ebay. I
> replaced some broken parts that were obviously that way when shipped.
> After I removed all the covers I found some disconnected wires by the
> power transformer. There are several loose wires on the transformer
> and these three (white w/blue, white w/red, white w/orange) which are
> disconnected/taped off. I found the manual online and can see where
> the power wires for operation need to be connected but not these. Any
> help out there? Kris
> >
>
>

--
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24236. Re: Power transformer wiring?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-31 21:57:48 UTC
From: Kris
Topic: 24232 Message: 24236

Hi Mike, Happy New Year! I purchased this radio as a "working" unit on Ebay. I have plugged it in, it receives (granted it seems a little hard of hearing), the digital display lights and changes with the turning of the knob. I was really surprised when I pulled off the bottom cover and saw the condition of the power transformer wiring and these three loose wires. I have printed off the wiring schematics and some other info to take to the shack where I am working on this unit. Wanna start this one, finish up the SB-201 amp and maybe finish my TS-930SAT. Lots of winter projects. Kris
BTW, could you forward me a copy of that picture? K3CAV at comcast dot net
--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
>
> The "White w/Blue" wire appears to be connected to either the "-C" terminal or the "PD2" terminal on the Rectifier Unit.
>
> The "White w/Orange" wire appears to be connected to the "STB" terminal on the Rectifier Unit.
>
> The "White w/Red" wire appears it may connect to the "210B" terminal on the Rectifier Unit.
>
> I'm not 100% sure about the connections mentioned above. I have a high resolution color image of an actual TS-830 Rectifier Unit and the wires connected to it from the power transformer.
>
> I question why the wires are disconnected in the first place? Is the power transformer bad? Are these windings shorted? Did the seller make any mention whether the 830 worked or not? If the seller's description said something like, "I have not powered up the radio nor do I have any way of testing the radio..." then most likely the radio has problems.
>
> Look in the "files" section of this group for a power transformer saver circuit. The file is labeled "Save your power transformer". Since there is no guarantee the power transformer is any good, I recommend using this circuit once you are sure it's safe to apply power to the transformer.
>
> I would not apply power to the 830 until you are absolutely sure the power transformer is good, don't even bring it up on a variable power AC transformer!
>
> 73s
> Mike W5RKL
> Happy New Year
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Kris" <blackhorse6869@> wrote:
> >
> > Started playing with a Working? TS-830S picked up off of Ebay. I replaced some broken

parts that were obviously that way when shipped. After I removed all the covers I found some disconnected wires by the power transformer. There are several loose wires on the transformer and these three (white w/blue, white w/red, white w/orange) which are disconnected/taped off. I found the manual online and can see where the power wires for operation need to be connected but not these. Any help out there? Kris
> >
>

24237. Re: [TS-520_820_530_830] Digital Modes

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-31 22:24:05 UTC
From: John Becker
Topic: 24163 Message: 24237

At 09:15 PM 12/26/2009, you wrote:

>Hi Folks,
>
>Just starting back in Amateur Radio after a VERY long absence. Digital to me - when I last Operated was a Creed 7b working RTTY !! Anyone remember these old 'Clatterers' ??

Sure do and still do it here with one of the 4 model 28's that
I have. One (the first) have had going on 40 years now.
With a TS-520 and an ST-6 TU.

John, W0JAB

24238. Re: Power transformer wiring?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-31 22:31:19 UTC
From: Kris
Topic: 24232 Message: 24238

Yes you do have some really nice pictures of the 830 wiring. Thanks for the heads up and hope you don't mind if I browse now and then while working on this piece. Kris

--- In TS-520_820_530_830@yahoogroups.com, n6wk@... wrote:
>
> I have some very good pictures of the connections of the TS-830S
> rectifier board on my web site look for TS-830S Transformer outputs.
> The Wires and colors are clearly shown
> www.n6wk.com/kenwood
>
> w5rkl wrote:
> >
> >
> > The "White w/Blue" wire appears to be connected to either the "-C"
> > terminal or the "PD2" terminal on the Rectifier Unit.
> >
> > The "White w/Orange" wire appears to be connected to the "STB"
> > terminal on the Rectifier Unit.
> >
> > The "White w/Red" wire appears it may connect to the "210B" terminal
> > on the Rectifier Unit.
> >
> > I'm not 100% sure about the connections mentioned above. I have a high
> > resolution color image of an actual TS-830 Rectifier Unit and the
> > wires connected to it from the power transformer.
> >
> > I question why the wires are disconnected in the first place? Is the
> > power transformer bad? Are these windings shorted? Did the seller make
> > any mention whether the 830 worked or not? If the seller's description
> > said something like, "I have not powered up the radio nor do I have
> > any way of testing the radio..." then most likely the radio has problems.
> >
> > Look in the "files" section of this group for a power transformer
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> > Since there is no guarantee the power transformer is any good, I
> > recommend using this circuit once you are sure it's safe to apply
> > power to the transformer.
> >
> > I would not apply power to the 830 until you are absolutely sure the
> > power transformer is good, don't even bring it up on a variable power
> > AC transformer!
> >
> > 73s
> > Mike W5RKL
> > Happy New Year

> >
> > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "Kris"
> > <blackhorse6869@> wrote:
> > >
> > > Started playing with a Working? TS-830S picked up off of Ebay. I
> > replaced some broken parts that were obviously that way when shipped.
> > After I removed all the covers I found some disconnected wires by the
> > power transformer. There are several loose wires on the transformer
> > and these three (white w/blue, white w/red, white w/orange) which are
> > disconnected/taped off. I found the manual online and can see where
> > the power wires for operation need to be connected but not these. Any
> > help out there? Kris
> > >
> >
> >
>
> --
> E-Mail Disclaimer This communication and any documents, files, or previous e-mail messages attached to it constitute an electronic communication within the scope of the Electronic Communication Privacy Act, 18 USCA 2510.This communication may contain non-public, confidential, or legally privileged information intended for the sole use of the intended recipient(s). The unlawful interception, use or disclosure of such information is strictly prohibited under 18 USCA 2511. Any review, reliance, or distribution by others or forwarding without expressed permission is strictly prohibited. If you are not the intended recipient, please contact the sender and delete all copies.
>

24239. Re: Power transformer wiring?

Yahoo group: TS-520_820_530_830 (2009)
Date: 2009-12-31 22:41:08 UTC
From: Kris
Topic: 24232 Message: 24239

Hi Mike,
I just went down to the shack and did some wire searching. Here is what I found:
The white w/orange runs over to the AF unit. It is the center wire in the three wire connector #8 on the AF unit.
The white w/red and white w/blue run over and up through the hole in the output tube cage with the fan wires. There is a rectangular box that runs through the bottom of the output cage with eight wires connected to it. If it weren't all metal, I'd swear it was a relay. But, these wires connect to it on the second and third connections in from the left, closest to the rear of the cabinet. Hope this helps.
Kris

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
>
> The "White w/Blue" wire appears to be connected to either the "-C" terminal or the "PD2" terminal on the Rectifier Unit.
>
> The "White w/Orange" wire appears to be connected to the "STB" terminal on the Rectifier Unit.
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> I would not apply power to the 830 until you are absolutely sure the power transformer is good, don't even bring it up on a variable power AC transformer!
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> 73s
> Mike W5RKL
> Happy New Year
>
>

> --- In TS-520_820_530_830@yahoogroups.com, "Kris" <blackhorse6869@> wrote:
> >
> > Started playing with a Working? TS-830S picked up off of Ebay. I replaced some broken parts that were obviously that way when shipped. After I removed all the covers I found some disconnected wires by the power transformer. There are several loose wires on the transformer and these three (white w/blue, white w/red, white w/orange) which are disconnected/taped off. I found the manual online and can see where the power wires for operation need to be connected but not these. Any help out there? Kris
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